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ÖLFLEX®

Power and control cables

ÖLFLEX® has become synonymous with power and control cables. Our flexible and oil-resistant cables satisfy the highest demands and can withstand even the very toughest conditions.

Application range

- Industrial machinery, machine tools, plant and equipment engineering
- Measurement, control, heating and air conditioning systems
- Wind power and photovoltaic systems
- Public buildings, airports and stations
- Medical technology, chemical industry, composting plants and sewage works
- Food and beverage industry
- Power drive systems
- Robot applications
- Railway applications

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Power and control cables

General Applications



ÖLFLEX® 100 I

ISI marked PVC cable



Info

- ISI marked cable

Benefits

- Space-saving installation due to small cable diameter
- High electrical performance due to 3 kV test voltage

Application range

- Plant engineering and installation, Industrial machinery
- Power circuit for Air conditioning installations
- Main power circuit to individual apartments
- Dry or damp interiors under medium mechanical load conditions
- For fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load

Product features

- Flame retardant: According to IEC 60332-1 / IS 10810-53

Norm references / Approvals

- IS:694:2010

Product Make-up

- Conductor : Bare copper wires of fine strands
- Insulation : PVC
- Outer Sheath:
 - i) PVC
 - ii) PVC FR-LSH

Technical data



Core identification code

Coloured



Conductor stranding

Bare copper, fine wire strand class 5 in acc. to IS 8130-1984



Minimum bending radius

Occasional fixing Installation: 15 x cable OD, Fixed installation: 4 X Cable OD



Nominal voltage

UM : 1100, Up to and including 1100 V in acc. to IS 694:2010



Temperature range

-15°C up to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® 100 I					
38007034	2 X 0.5	6.0	grey	9.0	55
38007035	3 G 0.5	6.3	grey	14.0	64
38007036	4 G 0.5	6.8	grey	18.0	76
38007042	2 X 0.75	6.4	grey	13.0	65
38007043	3 G 0.75	6.7	grey	20.0	77
38007045	4 G 0.75	7.3	grey	26.0	92
38007053	2 X 1.0	6.7	grey	17.0	73
38007054	3 G 1.0	7.1	grey	26.0	87
38007055	4 G 1.0	7.7	grey	34.0	105
38007064	2 X 1.5	7.4	grey	25.0	90
38007065	3 G 1.5	7.8	grey	37.0	108
38007066	4 G 1.5	8.8	grey	50.0	137
38007067	5 X 1.5	9.6	grey	62.0	162
38007074	2 X 2.5	8.8	grey	42.0	133
38007075	3 G 2.5	9.3	grey	63.0	162
38007076	4 G 2.5	10.3	grey	84.0	198
38007077	5 X 2.5	11.3	grey	105.0	238
38007081	2 X 4	10.4	grey	69.0	195
38007082	3 G 4	11.1	grey	104.5	241
38007083	4 G 4	12.2	grey	138.0	297
38000997	5 X 4	13.5	grey	173.0	365
38007092	3 G 6	12.6	grey	158.0	336
38007093	4 G 6	14.0	grey	210.0	416
38007094	3 G 10	15.8	grey	260.0	542
38007095	4 G 10	17.7	grey	346.0	674
38007096	3 G 16	18.2	grey	407.0	754
38007097	4 G 16	20.3	grey	542.0	946
38001018	3 G 25	22.7	grey	670.0	1,189
38009040	4 G 25	25.3	grey	893.0	1,511
38007084	4 G 35	28.7	grey	1,181.0	1,935
38001023	4 G 50	33.5	grey	1,659.0	2,748
ÖLFLEX® 100 I FR-LSH					
380820315	3 G 1.0	7.2	grey	26.0	90
380830315	3 G 1.5	7.8	grey	37.0	111
380830415	4 G 1.5	8.8	grey	50.0	141
380840315	3 G 2.5	9.6	grey	63.0	166
380840415	4 G 2.5	10.5	grey	84.0	203
380850315	3 G 4	11.1	grey	104.0	247
380850415	4 G 4	12.2	grey	138.0	303

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ÖLFLEX® 100 I CY

Colour coded screened PVC power and control cable



Info

- EMC - Compliant



Benefits

- EMC Compliant
- High electrical performance due to 4 kV test voltage

Application range

- Plant engineering and installation, Industrial machinery
- Power circuit for Air conditioning installations
- Main power circuit to individual apartments
- Fixed Installation
- For fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load

Product features

- Flame retardant: According to IEC 60332-1

Product Make-up

- Conductor : Bare copper wires of fine strands
- Insulation : PVC
- Inner Sheath : PVC
- Copper braid with approx. 65% coverage
- Outer Sheath:
 - i) PVC
 - ii) PVC FR-LSH

Technical data



Core identification code
Coloured



Conductor stranding
Bare copper, fine wire strand class 5 in acc. to IS 8130-1984



Minimum bending radius
Occasional fixing Installation: 20 x OD,
Fixed installation: 6 X Cable OD



Nominal voltage
UM : 1100, Up to and including 1100 V



Temperature range
-15°C up to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® 100 I CY					
380400415	4 G 0.5	9.2	grey	49.0	141
380420205	2 X 1.0	8.9	grey	47.0	131
380420415	4 G 1.0	10.2	grey	67.0	175
380430205	2 X 1.5	9.6	grey	56.0	157
380430315	3 G 1.5	10.2	grey	70.0	177
380430305	3 X 1.5	10.2	grey	70.0	177
380430415	4 G 1.5	11.1	grey	86.0	214
380440315	3 G 2.5	12.0	grey	100.0	242
380440305	3 X 2.5	12.0	grey	100.0	242
380440415	4 G 2.5	13.1	grey	126.0	300
380440405	4 X 2.5	13.1	grey	126.0	300
380460415	4 G 6	17.2	grey	286.0	572
380461415	4 G 10	21.5	grey	469.0	916
380464415	4 G 35	33.8	grey	1,384.0	2,395
380465315	3 G 50	35.4	grey	1,465.0	2,658
380465415	4 G 50	39.4	grey	1,900.0	3,305
380410410	4 G 0.75	13.1	transparent	58.0	154
380430310	3 G 1.5	17.2	transparent	70.0	172
380440200	2 X 2.5	11.3	transparent	78.0	204
380440310	3 G 2.5	12.0	transparent	100.0	235
380440300	3 X 2.5	12.0	transparent	100.0	235
380440410	4 G 2.5	13.1	transparent	126.0	291
380440400	4 X 2.5	13.1	transparent	126.0	291
380461410	4 G 10	21.5	transparent	469.0	889
380463410	4 G 25	30.0	transparent	1,079.0	1,860
380465410	4 G 50	39.4	transparent	1,900.0	3,225
ÖLFLEX® 100 I CY UVAR					
380400225	2 X 0.5	8.1	grey	35.0	107
380420225	2 X 1.0	8.9	grey	47.0	131
380420325	3 X 1.0	9.4	grey	57.0	152
380420435	4 G 1.0	10.2	grey	67.0	175

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® 100 I CY FR-LSH					
380630315	3 G 1.5	10.2	grey	70.0	180
380630305	3 X 1.5	10.2	grey	70.0	180
380630415	4 G 1.5	11.1	grey	86.0	218
380630405	4 X 1.5	11.1	grey	86.0	218
380640205	2 X 2.5	11.3	grey	78.0	214
380640315	3 G 2.5	12.0	grey	100.0	246
380640305	3 X 2.5	12.0	grey	100.0	246
380640415	4 G 2.5	13.1	grey	126.0	305
380640405	4 X 2.5	13.1	grey	126.0	305
380640515	5 G 2.5	14.6	grey	168.0	380
380640505	5 X 2.5	14.6	grey	168.0	380
380650315	3 G 4	14.1	grey	168.0	382
380650305	3 X 4	14.1	grey	168.0	382
380650415	4 G 4	15.4	grey	211.0	452
380650405	4 X 4	15.4	grey	211.0	452
380650515	5 G 4	16.9	grey	249.0	533
380660305	3 X 6	15.6	grey	230.0	489
380660415	4 G 6	17.2	grey	286.0	579
380660405	4 X 6	17.2	grey	286.0	579
380661415	4 G 10	21.5	grey	469.0	928
380661405	4 X 10	21.5	grey	469.0	928
380662415	4 G 16	24.5	grey	689.0	1,265
380662405	4 X 16	24.5	grey	689.0	1,265
380663415	4 G 25	30.0	grey	1,079.0	1,937
380663405	4 X 25	30.0	grey	1,079.0	1,937
380664415	4 G 35	33.8	grey	1,384.0	2,422

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Power and control cables

General Applications



ÖLFLEX® 100 I SY

Colour coded PVC power and control cable with steel wired braiding



Info

- Steel wire Braiding for extra mechanical protection

Benefits

- Extra mechanical protection due to braided steel wire
- High electrical performance due to 4 kV test voltage

Application range

- Plant engineering and installation, Industrial machinery
- Power circuit for Air conditioning installations
- Main power circuit to individual apartments

- Area with high mechanical stress
- Fixed installation

Product features

- Flame retardant: According to IEC 60332-1

Product Make-up

- Conductor : Bare copper wires of fine strands
- Insulation : PVC
- Inner Sheath : PVC
- Steel wire braid
- Outer Sheath:
 - i) PVC
 - ii) PVC FR-LSH

Technical data



Core identification code
Coloured



Conductor stranding
Bare copper, fine wire strand class 5 in acc. to IS 8130-1984



Minimum bending radius
Occasional fixing Installation: 20 x OD,
Fixed installation: 6 X Cable OD



Nominal voltage
UM : 1100, Up to and including 1100 V



Temperature range
-15°C up to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® 100 I SY					
380130310	3 G 1.5	10.9	transparent	37.0	181
380140300	3 X 2.5	12.7	transparent	63.0	249
380160300	3 X 6	16.1	transparent	158.0	458
ÖLFLEX® 100 I SY UVAR					
380140435	4 G 2.5	13.8	grey	84.0	313
380160435	4 G 6	17.7	grey	210.0	578
ÖLFLEX® 100 I SY FR-LSH					
380340415	4 G 2.5	13.8	grey	84.0	318

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- Photographs are not to scale and do not represent detailed images of the respective products.



Info

- EMC environment
- Slim and light, without inner sheath

Benefits

- Space saving due to small cable diameter

Application range

- Used as a connection cable for measuring, monitoring and control connections in industrial machineries, heating and air refrigeration systems, office equipment, etc.
- Dry or damp interiors under medium mechanical load conditions
- Fixed installations as well as for occasional flexing at free, non-continuously recurring movement without tensile load
- Suitable in EMC-critical environments

Product features

- Flame-retardant acc. to IEC 60332-1-2
- With or without protective conductor gn/ye

Product Make-up

- Fine strands of bare copper wires
- PVC core insulation
- Plastic foil wrapping
- Tinned copper wire screen braiding
- PVC outer sheath, grey or black

Technical data



Classification

ETIM 5.0 Class-Description: Control cable
ETIM 5.0 Class-ID: EC000104



Core identification code

Black core with white numbers



Conductor stranding

Fine wire acc. to IEC 60228 Cl.5



Minimum bending radius

Occasional flexing: 25 x outer diameter
Fixed installation: 12 x outer diameter



Nominal voltage

U₀/U: 300/500 V



Protective conductor

G = with protective conductor GN/YE;
X = without protective conductor



Temperature range

Fixed installation: -20°C to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
YSLCY					
3803702	2 X 0.5	5.8	grey	18.8	45
3803703	3 G 0.5	6.1	grey	24.4	59
3803704	4 G 0.5	6.5	grey	30.3	71
3803705	5 G 0.5	7.0	grey	36.3	86
3803706	7 G 0.5	7.5	grey	47.4	105
3803740	2 X 0.75	6.0	grey	24.6	69
3803741	3 G 0.75	6.3	grey	32.7	79
3803742	4 G 0.75	6.9	grey	41.1	93
3803743	5 G 0.75	7.7	grey	49.7	116
3803744	7 G 0.75	8.3	grey	65.7	139
3803750	2 X 1.0	6.3	grey	30.5	77
3803751	3 G 1.0	6.6	grey	40.9	90
3803752	4 G 1.0	7.2	grey	51.8	105
3803753	5 G 1.0	8.0	grey	63.1	131
3803754	7 G 1.0	8.6	grey	83.8	161
3803760	2 X 1.5	7.0	grey	41.1	97
3803761	3 G 1.5	7.4	grey	56.6	118
3803762	4 G 1.5	8.0	grey	72.7	140
3803763	5 G 1.5	8.9	grey	89.0	174
3803764	7 G 1.5	9.8	grey	119.2	216
3803770	2 X 2.5	8.1	grey	63.7	130
3803771	3 G 2.5	8.7	grey	89.1	161
3803772	4 G 2.5	9.7	grey	114.9	205
3803773	5 G 2.5	10.8	grey	141.1	248
3803774	7 G 2.5	11.8	grey	191.2	319
3803780	2 X 4	9.9	grey	95.9	200
3803781	3 G 4	10.6	grey	135.7	255
3803782	4 G 4	11.6	grey	176.6	296
3803783	5 G 4	12.8	grey	217.9	362
3803784	7 G 4	14.1	grey	297.6	460
3803787	2 X 6.0	11.6	grey	138.2	274
3803788	3 G 6	12.5	grey	197.9	373
3803789	4 G 6	13.8	grey	258.0	447
3803790	5 G 6	15.2	grey	318.8	538
3803791	7 G 6	16.6	grey	443.4	720
3803794	2 X 10	13.8	grey	230.4	407

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
3803795	3 G 10	14.8	grey	318.5	566
3803796	4 G 10	16.4	grey	423.8	733
3803797	5 G 10	18.1	grey	523.9	915
3803800	2 X 16	17.0	grey	348.2	563
3803801	3 G 16	18.3	grey	505.0	783
3803802	4 G 16	20.2	grey	669.4	984
3803803	5 G 16	22.4	grey	829.5	1,198
3803806	2 X 25	20.7	grey	536.4	929
3803807	3 G 25	22.1	grey	781.5	1,260
3803808	4 G 25	24.5	grey	1,028.3	1,644
3803809	5 G 25	27.0	grey	1,276.7	1,997
3803702B	2 X 0.5	5.8	black	18.8	45
3803703B	3 G 0.5	6.1	black	24.4	59
3803704B	4 G 0.5	6.5	black	30.3	71
3803705B	5 G 0.5	7.0	black	36.3	86
3803706B	7 G 0.5	7.5	black	47.4	105
3803740B	2 X 0.75	6.0	black	24.6	69
3803741B	3 G 0.75	6.3	black	32.7	79
3803742B	4 G 0.75	6.9	black	41.1	93
3803743B	5 G 0.75	7.7	black	49.7	116
3803744B	7 G 0.75	8.3	black	65.7	139
3803750B	2 X 1.0	6.3	black	30.5	77
3803751B	3 G 1.0	6.6	black	40.9	90
3803752B	4 G 1.0	7.2	black	51.8	105
3803753B	5 G 1.0	8.0	black	63.1	131
3803754B	7 G 1.0	8.6	black	83.8	161
3803760B	2 X 1.5	7.0	black	41.1	97
3803761B	3 G 1.5	7.4	black	56.6	118
3803762B	4 G 1.5	8.0	black	72.7	140
3803763B	5 G 1.5	8.9	black	89.0	174
3803764B	7 G 1.5	9.8	black	119.2	216
3803770B	2 X 2.5	8.1	black	63.7	130
3803771B	3 G 2.5	8.7	black	89.1	161
3803772B	4 G 2.5	9.7	black	114.9	205
3803773B	5 G 2.5	10.8	black	141.1	248
3803774B	7 G 2.5	11.8	black	191.2	319

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Power and control cables

General Applications



LV (N)2XY FR



Benefits

- Maintain high insulation resistance for heat and moisture exposed environments
- Applied to copper conductor, which is conductivity rate than aluminum conductor
- Easy installation due to small cable diameter
- High flame retardancy cable

Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Fixed for power and control circuits and applicable for the connection of telecom power supply
- Cable tray and wiring board in factory

Product features

- Flame retardant according to IEC 60332-1-2 and IEC 60332-3-24 (CAT.C)
- Cable material according to IEC 60502-1
- Cable test according to IEC 60811

Norm references / Approvals

- Cable design according to IEC 60502-1
- Conductor design according to IEC60228 class 2

Product Make-up

- Conductor : Stranded made of bare copper
- Core insulation: Cross-Linked Polyethylene (XLPE)
- Core insulation colour : Core Identification code according to VDE 0293-308
- Outer sheath : Polyvinyl Chloride (PVC, ST2)
- Outer sheath colour: Black

Info

- Low voltage power and control cable
- Stranded copper conductor According to IEC60228 Cl.2
- Unarmoured, XLPE Insulation, PVC Outer sheath cable

Technical data

- Conductor stranding**
Stranded made of bare copper wire (Design acc.to IEC60228 Cl.2)
- Minimum bending radius**
Fixed installation: 8 x cable diameter
- Nominal voltage**
AC U₀/U: 0.6/1 KV
- Temperature range**
-15° C up to +90 °C max. conductor temperature

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
LV (N)2XY FR				
85627651	1 X 1.5	6.2	13.8	55
85627652	2 X 1.5	10.3	27.7	128
85627653	3 X 1.5	10.8	41.7	151
85627654	4 X 1.5	11.6	55.6	180
85627655	5 X 1.5	12.5	69.6	210
85627656	6 X 1.5	13.5	83.5	241
85627657	7 X 1.5	13.5	97.5	258
85627658	8 X 1.5	14.4	111.4	290
85627659	9 X 1.5	15.4	125.4	323
85627660	10 X 1.5	16.6	139.5	361
85627661	11 X 1.5	16.6	153.4	378
85627662	12 X 1.5	17.1	167.4	403
85627663	13 X 1.5	17.3	181.4	424
85627664	14 X 1.5	17.9	195.4	451
85627665	15 X 1.5	18.3	209.3	476
85627666	16 X 1.5	18.8	223.3	502
85627667	17 X 1.5	19.3	237.3	528
85627668	18 X 1.5	19.7	251.3	554
85627669	19 X 1.5	19.7	265.3	570
85627670	20 X 1.5	20.3	279.3	598
85627671	21 X 1.5	20.7	293.3	623
85627672	22 X 1.5	21.3	307.3	652
85627673	23 X 1.5	21.6	321.3	676
85627674	24 X 1.5	22.9	335.4	719
85627675	25 X 1.5	22.9	349.3	736
85627676	26 X 1.5	22.9	363.3	753
85627677	27 X 1.5	23.3	377.3	780
85627678	28 X 1.5	23.3	391.3	797
85627679	29 X 1.5	23.6	405.3	819
85627680	30 X 1.5	24.1	419.3	848
85627681	31 X 1.5	24.2	433.3	867
85627682	32 X 1.5	24.5	447.3	891
85627683	33 X 1.5	25.0	461.3	919
85627684	34 X 1.5	25.2	475.3	940
85627685	35 X 1.5	25.4	489.3	960
85627686	36 X 1.5	26.0	503.3	991
85627687	37 X 1.5	26.0	517.3	1,008
85627688	38 X 1.5	26.2	531.3	1,030
85627689	39 X 1.5	26.5	545.3	1,055

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LV (N)2XYRY FR

Info

- Low voltage power and control cable
- Stranded copper conductor According to IEC60228 Cl.2
- Armoured, XLPE Insulation, PVC Inner / Outer sheath cable



Benefits

- Maintain high insulation resistance for heat and moisture exposed environments
- Applied to copper conductor, which is conductivity rate than aluminum conductor
- Easy installation due to small cable diameter
- High flame retardancy cable

Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Fixed for power and control circuits and applicable for the connection of telecom power supply
- Cable tray and wiring board in factory

Product features

- Flame retardant according to IEC 60332-1-2 and IEC 60332-3-24 (CAT.C)

- Cable material according to IEC 60502-1
- Cable test according to IEC 60811

Norm references / Approvals

- Cable design according to IEC 60502-1
- Conductor design according to IEC60228 class 2

Product Make-up

- Conductor : Stranded made of bare copper
- Core insulation: Cross-Linked Polyethylene (XLPE)
- Core insulation colour : Core Identification code according to VDE 0293-308
- Inner sheath : Polyvinyl Chloride (PVC, ST2)
- Armoured : Aluminium wire (Single core) or Galvanized wire (Multi core)
- Outer sheath : Polyvinyl Chloride (PVC, ST2)
- Outer sheath colour: Black

Technical data

- Conductor stranding**
Stranded made of bare copper wire (Design acc.to IEC60228 Cl.2)
- Minimum bending radius**
Fixed installation: 10 x cable diameter
- Nominal voltage**
AC U₀/U: 0.6/1 KV
- Temperature range**
-15° C up to +90 °C max. conductor temperature

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
LV (N)2XYRY FR				
85631251	1 X 1.5	10.6	13.9	211
85631252	2 X 1.5	14.7	27.9	363
85631253	3 X 1.5	15.2	41.8	400
85631254	4 X 1.5	16.0	55.8	443
85631255	5 X 1.5	17.6	69.7	584
85631256	6 X 1.5	18.5	83.7	641
85631257	7 X 1.5	18.5	97.6	658
85631258	8 X 1.5	19.5	111.6	715
85631259	9 X 1.5	20.4	125.5	774
85631260	10 X 1.5	21.7	139.5	848
85631261	11 X 1.5	21.7	153.4	865
85631262	12 X 1.5	22.1	167.4	903
85631263	13 X 1.5	22.4	181.3	936
85631264	14 X 1.5	23.6	195.3	1,101
85631265	15 X 1.5	24.1	209.2	1,145
85631266	16 X 1.5	24.5	223.2	1,173
85631267	17 X 1.5	25.1	237.1	1,219
85631268	18 X 1.5	25.5	251.1	1,263
85631269	19 X 1.5	25.5	265.0	1,279
85631270	20 X 1.5	26.0	279.0	1,327
85631271	21 X 1.5	26.4	292.9	1,370
85631272	22 X 1.5	27.0	306.9	1,419
85631273	23 X 1.5	27.4	320.8	1,445
85631274	24 X 1.5	28.6	334.8	1,544
85631275	25 X 1.5	28.6	348.7	1,561
85631276	26 X 1.5	28.6	362.7	1,578
85631277	27 X 1.5	29.1	376.6	1,608
85631278	28 X 1.5	29.1	390.6	1,624
85631279	29 X 1.5	29.6	404.5	1,680
85631280	30 X 1.5	30.1	418.5	1,729
85631281	31 X 1.5	30.2	432.4	1,748
85631282	32 X 1.5	30.5	446.4	1,790
85631283	33 X 1.5	31.0	460.3	1,822
85631284	34 X 1.5	31.2	474.3	1,860
85631285	35 X 1.5	31.4	488.2	1,881
85631286	36 X 1.5	32.0	502.2	1,932
85631287	37 X 1.5	32.0	516.1	1,949
85631288	38 X 1.5	32.2	530.1	1,989
85631289	39 X 1.5	32.5	544.0	2,016

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Power and control cables

Harsh Environment



H05RR-F / 60245 IEC 53(YZ) / YZ

Rubber cable for light mechanical stress and handheld devices used in households, kitchens, offices



Info

- CCC and VDE dual certified

Application range

- Hand-held and power supply devices
- For dry and damp interiors, only temporary use outdoors; not for industrial/commercial or agricultural facilities; not suitable for supplying industrial power tools
- Light and sound applications
- Light duty rubber-sheath cable
- For light workshop devices with light stress

Product features

- Flame-retardant in acc. to IEC 60332-1-2

Norm references / Approvals

- <VDE> cable type certification in acc. to EN 50525-2-21
- CCC cable type certification in acc. to GB/T 5013.4 or JB/T 8735.2
- Complies with IEC 60245.4

Product Make-up

- Fine strands of bare copper wires
- Rubber type EI4 core insulation
- Rubber type EM3 outer sheath, black

Technical data

- Core identification code**
acc. to VDE 0293-308
- Conductor stranding**
Fine wire acc. to IEC 60228 Cl. 5
- Minimum bending radius**
6 x cable diameter
- Nominal voltage**
U₀/U: 300/500 V
- Test voltage**
2000 V
- Protective conductor**
G = with GN-YE protective conductor
X = without protective conductor
- Temperature range**
-25°C up to +60°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
H05RR-F / 60245 IEC 53(YZ), acc. to EN 50525-2-21 and GB/T 5013.4, VDE and CCC certified				
393808120	2 X 0.75	5.7 - 7.4	14.4	61
393808130	3 G 0.75	6.2 - 8.1	21.6	75
393808140	4 G 0.75	6.8 - 8.8	28.8	91
393808150	5 G 0.75	7.6 - 9.9	36.0	110
393808121	2 X 1.0	6.1 - 8.0	19.2	73
393808131	3 G 1.0	6.5 - 8.5	28.8	86
393808141	4 G 1.0	7.1 - 9.3	38.4	105
393808151	5 G 1.0	8.0 - 10.3	48.0	128
393808122	2 X 1.5	7.6 - 9.8	28.8	110
393808132	3 G 1.5	8.0 - 10.4	43.2	130
393808142	4 G 1.5	9.0 - 11.6	57.6	165
393808152	5 G 1.5	9.8 - 12.7	72.0	190
393808123	2 X 2.5	9.0 - 11.6	48.0	160
393808133	3 G 2.5	9.6 - 12.4	72.0	190
393808143	4 G 2.5	10.7 - 13.8	96.0	235
393808153	5 G 2.5	11.9 - 15.3	120.0	285
H05RR-F / YZ, acc. to EN 50525-2-21 and JB/T 8735.2, VDE and CCC certified				
393808124	2 X 4	10.6 - 13.7	76.8	227
393808134	3 G 4	11.3 - 14.5	115.2	273
YZ, acc. to JB/T 8735.2, CCC certified, w/o CE marking				
393808144	4 G 4	12.7 - 16.2	153.6	342
393808154	5 G 4	14.1 - 17.9	192.0	418
393808125	2 X 6	11.8 - 15.1	115.2	293
393808135	3 G 6	12.6 - 16.1	172.8	360
393808145	4 G 6	14.0 - 17.9	230.4	449
393808155	5 G 6	15.7 - 20.0	288.0	562

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H05RN-F / 60245 IEC 57(YZW)

Rubber cable for handheld devices and chains of decorative lights



Info

- CCC and VDE dual certified

Application range

- For supplying devices in households, kitchens or offices under light mechanical stress; handheld inspection lamps
- For dry and damp interiors, as well as for limited outdoor use
- Medium duty rubber-sheath cable
- For lightweight workshop tools subject to medium loads

Product features

- Flame-retardant in acc. to IEC 60332-1-2
- Oil-resistant according to EN 60811-404

Norm references / Approvals

- <VDE> cable type certification in acc. to EN 50525-2-21
- CCC cable type certification in acc. to GB/T 5013.4
- Complies with IEC 60245.4

Product Make-up

- Fine strands of bare copper wires
- Rubber type EI4 core insulation
- Rubber type EM2 outer sheath, black

Technical data

	Core identification code acc. to VDE 0293-308
	Conductor stranding Fine wire acc. to IEC 60228 / VDE 0295 Cl. 5
	Minimum bending radius 6 x cable diameter
	Nominal voltage U ₀ /U: 300/500 V
	Test voltage 2000 V
	Protective conductor G = with GN-YE protective conductor X = without protective conductor
	Temperature range -25°C up to +60°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
H05RN-F / 60245 IEC 57(YZW), acc. to EN 50525-2-21 and GB/T 5013.4, VDE and CCC certified				
393808220	2 X 0.75	5.7 - 7.4	14.4	60
393808230	3 G 0.75	6.2 - 8.1	21.6	75
393808240	4 G 0.75	6.8 - 8.8	28.8	90
393808221	2 X 1.0	6.1 - 8.0	19.2	71
393808231	3 G 1.0	6.5 - 8.5	28.8	90
393808241	4 G 1.0	7.1 - 9.3	38.4	102
60245 IEC 57(YZW), acc. to GB/T 5013.4, CCC certified, w/o CE marking				
393808232	3 G 1.5	8.0 - 10.4	43.2	126
393808242	4 G 1.5	9.0 - 11.6	57.6	162
393808252	5 G 1.5	9.8 - 12.7	72.0	188
393808233	3 G 2.5	9.6 - 12.4	72.0	188
393808243	4 G 2.5	10.7 - 13.8	96.0	232
393808253	5 G 2.5	11.9 - 15.3	120.0	280

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Power and control cables

Harsh Environment



H07RN-F / 60245 IEC 66(YCW) / YCW

Heavy standard construction



Application range

- Hand-held and power supply devices
- For dry and damp interiors, as well as for limited outdoor use
- Light and sound technology
- Heavy-duty rubber-sheath cable
- Medium mechanical stress Industrial, agricultural use

Product features

- Flame-retardant in acc. to IEC 60332-1-2
- Oil-resistant according to EN 60811-404

Norm references / Approvals

- <VDE> cable type certification in acc. to EN 50525-2-21
- CCC cable type certification in acc. to GB/T 5013.4 or JB/T 8735.2
- Complies with IEC 60245.4

Product Make-up

- Fine strands of bare copper wires
- Rubber type EI4 core insulation
- Rubber type EM2 outer sheath, black



Info

- CCC and VDE dual certified

Technical data



Core identification code

Up to 5 cores: colour-coded according to VDE0293-308
From 6 cores: black with white numbers



Conductor stranding

Fine wire acc. to IEC 60228 / VDE 0295 Cl. 5



Minimum bending radius

6 x cable diameter



Nominal voltage

U₀/U: 450/750 V



Test voltage

2500 V



Protective conductor

G = with GN-YE protective conductor
X = without protective conductor



Temperature range

-25°C up to +60°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
H07RN-F/60245 IEC 66(YCW), acc. to EN 50525-2-21 and GB/T 5013.4, VDE and CCC certified				
393807120	2 X 1.0	7.7 – 10.0	19.2	100
393807140	3 G 1.0	8.3 – 10.7	28.8	125
393807160	4 G 1.0	9.2 – 11.9	38.4	155
393807180	5 G 1.0	10.2 – 13.1	48.0	180
393807100	1 X 1.5	5.7 – 7.1	14.4	57
393807121	2 X 1.5	8.5 – 11.0	28.8	130
393807141	3 G 1.5	9.2 – 11.9	43.2	155
393807161	4 G 1.5	10.2 – 13.1	57.6	195
393807181	5 G 1.5	11.2 – 14.4	72.0	230
393807101	1 X 2.5	6.3 – 7.9	24.0	75
393807122	2 X 2.5	10.2 – 13.1	48.0	185
393807142	3 G 2.5	10.9 – 14.0	72.0	225
393807162	4 G 2.5	12.1 – 15.5	96.0	275
393807182	5 G 2.5	13.3 – 17.0	120.0	330
393807102	1 X 4	7.2 – 9.0	38.4	104
393807123	2 X 4	11.8 – 15.1	76.8	270
393807143	3 G 4	12.7 – 16.2	115.2	310
393807163	4 G 4	14.0 – 17.9	153.6	385
393807183	5 G 4	15.6 – 19.9	192.0	473
393807103	1 X 6	7.9 – 9.8	57.6	131
393807124	2 X 6	13.1 – 16.8	115.2	350
393807144	3 G 6	14.1 – 18.0	172.8	410
393807164	4 G 6	15.7 – 20.0	230.4	515
393807184	5 G 6	17.5 – 22.2	288.0	635
393807104	1 X 10	9.5 – 11.9	96.0	202
393807125	2 X 10	17.7 – 22.6	192.0	565
393807145	3 G 10	19.1 – 24.2	288.0	710
393807165	4 G 10	20.9 – 26.5	384.0	900
393807185	5 G 10	22.9 – 29.1	480.0	1,095
393807105	1 X 16	10.8 – 13.4	153.6	280
393807126	2 X 16	20.2 – 25.7	307.2	765
393807146	3 G 16	21.8 – 27.6	460.8	975
393807166	4 G 16	23.8 – 30.1	614.4	1,255
393807186	5 G 16	26.4 – 33.3	768.0	1,545
393807106	1 X 25	12.7 – 15.8	240.0	390
393807127	2 X 25	24.3 – 30.7	480.0	1,080
393807147	3 G 25	26.1 – 33.0	720.0	1,375
393807167	4 G 25	28.9 – 36.6	960.0	1,810
393807187	5 G 25	32.0 – 40.4	1,200.0	2,220
393807107	1 X 35	14.3 – 17.9	336.0	510
393807148	3 G 35	29.3 – 37.1	1,008.0	1,780
393807168	4 G 35	32.5 – 41.1	1,344.0	2,345
393807108	1 X 50	16.5 – 20.6	480.0	705
393807149	3 G 50	34.1 – 42.9	1,440.0	2,460
393807169	4 G 50	37.7 – 47.5	1,920.0	3,220

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
393807109	1 X 70	18.6 – 23.3	672.0	940
393807150	3 G 70	38.4 – 48.3	2,016.0	3,260
393807170	4 G 70	42.7 – 54.0	2,688.0	4,320
393807110	1 X 95	20.8 – 26.0	912.0	1,205
393807151	3 G 95	43.3 – 54.0	2,736.0	4,200
393807171	4 G 95	48.4 – 61.0	3,648.0	5,545
393807111	1 X 120	22.8 – 28.6	1,152.0	1,480
393807172	4 G 120	53.0 – 66.0	4,608.0	6,740
393807112	1 X 150	25.2 – 31.4	1,440.0	1,817
393807173	4 G 150	58.0 – 73.0	5,760.0	8,290
393807113	1 X 185	27.6 – 34.4	1,776.0	2,200
393807114	1 X 240	30.6 – 38.3	2,304.0	2,810
393807115	1 X 300	33.5 – 41.9	2,880.0	3,490
H07RN-F / YCW, acc. to EN 50525-2-21 and JB/T 8735.2, VDE and CCC certified				
393807128	2 X 35	27.2 – 34.3	672.0	1,380
393807188	5 G 35	35.7 – 45.1	1,680.0	2,855
393807129	2 X 50	31.6 – 39.8	960.0	1,905
393807201	5 G 50	41.8 – 53.0	2,400.0	3,985
393807130	2 X 70	35.8 – 45.1	1,344.0	2,375
393807202	5 G 70	47.5 – 60.0	3,360.0	5,370
393807131	2 X 95	40.2 – 51.0	1,824.0	3,035
393807203	5 G 95	54.0 – 67.0	4,560.0	6,960
393807152	3 G 120	47.4 – 60.0	3,456.0	5,110
393807153	3 G 150	52.0 – 66.0	4,320.0	6,262
H07RN-F, acc. to EN 50525-2-21, VDE certified				
393807190	7 G 1.5	14.7 – 18.7	100.8	335
393807192	12 G 1.5	17.6 – 22.4	172.8	550
393807194	18 G 1.5	20.7 – 26.3	259.2	755
393807196	24 G 1.5	24.3 – 30.7	345.6	985
393807198	36 G 1.5	27.8 – 35.2	518.4	1,370
393807191	7 G 2.5	17.1 – 21.8	168.0	475
393807193	12 G 2.5	20.6 – 26.2	288.0	746
393807195	18 G 2.5	24.4 – 30.9	432.0	1,070
393807197	24 G 2.5	28.8 – 36.4	576.0	1,415
393807199	36 G 2.5	33.2 – 41.8	864.0	2,025
393807204	7 G 4	20.1 – 25.5	268.8	655
393807205	12 G 4	24.4 – 30.9	460.8	1,050
393807206	18 G 4	28.8 – 36.4	691.2	1,565
393807154	3 G 185	57.0 – 72.0	5,328.0	7,580
393807174	4 G 185	64.0 – 80.0	7,104.0	10,060
393807155	3 G 240	65.0 – 82.0	6,912.0	9,830
393807175	4 G 240	72.0 – 91.0	9,216.0	13,035
YCW, acc. to JB/T 8735.2, CCC certified, w/o CE marking				
393807207	5 G 120	59.0 – 74.0	5,760.0	8,335
393807208	5 G 150	65.0 – 81.0	7,200.0	10,240

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LAPP KABEL X01N2-D



Info

- Arc welding cable acc. to EN-50525-2-81



Application range

- For transmitting high currents from the electric welding device to the welding tool
- Can be used in dry or damp rooms

Product features

- Flame retardant acc. to IEC 60332-1-2

Product Make-up

- Fine strands of bare copper wires
- Stranding approximately corresponds to class 6 for up to 95 mm², and class 5 for sizes from 120 mm²
- Separator made of PET tape
- EPR compound covering, type EM5
- Covering colour in black or orange

Technical data

- Minimum bending radius**
12 x cable diameter
- Nominal voltage**
U₀/U: 100/100 V
- Test voltage**
1000 V
- Temperature range**
-25°C to +85°C

Article number	Conductor cross-section (mm ²)	Outer diameter (mm)	Outer sheath colour	Copper index (kg/km)	Weight (kg/km)
LAPP KABEL X01N2-D					
3808080	10	8.5	black	96.0	171
3808081	10	8.5	orange	96.0	171
3808082	16	9.5	black	154.0	198
3808083	16	9.5	orange	154.0	198
3808084	25	11.2	black	240.0	305
3808085	25	11.2	orange	240.0	305
3808086	35	12.5	black	336.0	415
3808087	35	12.5	orange	336.0	415
3808088	50	14.3	black	480.0	555
3808089	50	14.3	orange	480.0	555
3808090	70	16.5	black	672.0	765
3808091	70	16.5	orange	672.0	765
3808092	90	18.5	black	912.0	1,010
3808093	90	18.5	orange	912.0	1,010
3808094	120	20.0	black	1,152.0	1,262
3808095	120	20.0	orange	1,152.0	1,262
3808096	150	22.5	black	1,440.0	1,610
3808097	150	22.5	orange	1,440.0	1,610
3808098	185	25.5	black	1,776.0	1,995
3808099	185	25.5	orange	1,776.0	1,995
3808100	240	38.5	black	2,304.0	2,520
3808101	240	38.5	orange	2,304.0	2,520

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ÖLFLEX® INSTRUM RE-2X(ST)Y



Info

- Un-armoured XLPE insulation
- Overall Screen

Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Flame retardant in acc. to IEC 60332-3-24

Norm references / Approvals

- Based on EN 50288-7

Product Make-up

- Stranded plain annealed copper wires
- XLPE core insulation
- Pairs are collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC outer sheath, black or blue

Technical data



Classification

ETIM 5.0 Class-Description: Control cable
ETIM 5.0 Class-ID: EC000104



Core identification code

Pair: black and white
Multipair: black and white with numbers



Conductor stranding

acc. to BS 6360 / IEC 60228 Cl. 2



Minimum bending radius

6 x cable diameter



Nominal voltage

500 V
< 50 VAC / < 75 VDC for Intrinsically Safe (IS) circuits application



Temperature range

-30°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® INSTRUM RE-2X(ST)Y					
1270000	1x2x0.5	6.9	black	14.4	48
1270001	1x2x0.5	6.9	blue	14.4	48
1270002	2x2x0.5	9.8	black	24.0	73
1270003	2x2x0.5	9.8	blue	24.0	73
1270004	4x2x0.5	11.5	black	43.2	132
1270005	4x2x0.5	11.5	blue	43.2	132
1270006	6x2x0.5	13.7	black	62.4	185
1270007	6x2x0.5	13.7	blue	62.4	185
1270008	8x2x0.5	15.2	black	81.6	223
1270009	8x2x0.5	15.2	blue	81.6	223
1270010	10x2x0.5	17.4	black	100.8	276
1270011	10x2x0.5	17.4	blue	100.8	276
1270012	12x2x0.5	17.9	black	120.0	323
1270013	12x2x0.5	17.9	blue	120.0	323
1270030	1x2x0.75	7.3	black	19.2	57
1270031	1x2x0.75	7.3	blue	19.2	57
1270032	2x2x0.75	10.7	black	33.6	88
1270033	2x2x0.75	10.7	blue	33.6	88
1270034	4x2x0.75	12.3	black	62.4	213
1270035	4x2x0.75	12.3	blue	62.4	213
1270036	6x2x0.75	14.7	black	91.2	233
1270037	6x2x0.75	14.7	blue	91.2	233
1270038	8x2x0.75	16.7	black	120.0	285
1270039	8x2x0.75	16.7	blue	120.0	285
1270040	10x2x0.75	19.0	black	148.8	352
1270041	10x2x0.75	19.0	blue	148.8	352
1270042	12x2x0.75	19.6	black	177.6	409
1270043	12x2x0.75	19.6	blue	177.6	409
1270080	1x2x1	7.9	black	24.0	71
1270081	1x2x1	7.9	blue	24.0	71
1270082	2x2x1	11.3	black	43.2	102
1270083	2x2x1	11.3	blue	43.2	102
1270084	4x2x1	13.2	black	81.6	195
1270085	4x2x1	13.2	blue	81.6	195
1270086	6x2x1	15.9	black	120.0	291

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
1270087	6x2x1	15.9	blue	120.0	291
1270088	8x2x1	17.7	black	158.4	356
1270089	8x2x1	17.7	blue	158.4	356
1270090	10x2x1	20.1	black	196.8	439
1270091	10x2x1	20.1	blue	196.8	439
1270092	12x2x1	20.8	black	235.2	511
1270093	12x2x1	20.8	blue	235.2	511
1270120	1x2x1.5	8.5	black	33.6	86
1270121	1x2x1.5	8.5	blue	33.6	86
1270122	2x2x1.5	12.3	black	62.4	134
1270123	2x2x1.5	12.3	blue	62.4	134
1270124	4x2x1.5	14.4	black	120.0	240
1270125	4x2x1.5	14.4	blue	120.0	240
1270126	6x2x1.5	17.4	black	177.6	337
1270127	6x2x1.5	17.4	blue	177.6	337
1270128	8x2x1.5	19.6	black	235.2	428
1270129	8x2x1.5	19.6	blue	235.2	428
1270130	10x2x1.5	22.4	black	292.8	537
1270131	10x2x1.5	22.4	blue	292.8	537
1270132	12x2x1.5	23.1	black	350.4	627
1270133	12x2x1.5	23.1	blue	350.4	627
1270150	1x2x2.5	9.8	black	52.8	105
1270151	1x2x2.5	9.8	blue	52.8	105
1270152	2x2x2.5	14.6	black	100.8	188
1270153	2x2x2.5	14.6	blue	100.8	188
1270154	4x2x2.5	17.1	black	196.8	310
1270155	4x2x2.5	17.1	blue	196.8	310
1270156	6x2x2.5	20.6	black	292.8	440
1270157	6x2x2.5	20.6	blue	292.8	440
1270158	8x2x2.5	23.4	black	388.8	570
1270159	8x2x2.5	23.4	blue	388.8	570
1270160	10x2x2.5	26.9	black	484.8	717
1270161	10x2x2.5	26.9	blue	484.8	717
1270162	12x2x2.5	27.8	black	580.8	828
1270163	12x2x2.5	27.8	blue	580.8	828

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ÖLFLEX® INSTRUM RE-2X(ST)Y PiMF



Info

- Un-armoured XLPE insulation
- Individual and Overall Screen



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Flame retardant in acc. to IEC 60332-3-24

Norm references / Approvals

- Based on EN 50288-7

Product Make-up

- Stranded plain annealed copper wires
- XLPE core insulation
- Pairs are individually and collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC outer sheath, black or blue

Technical data



Classification

ETIM 5.0 Class-Description: Control cable
ETIM 5.0 Class-ID: EC000104



Core identification code

Pair: black and white
Multipair: black and white with numbers



Conductor stranding

acc. to BS 6360 / IEC 60228 Cl. 2



Minimum bending radius

6 x cable diameter



Nominal voltage

500 V
<50 VAC / <75 VDC for Intrinsically Safe (IS) circuits application



Temperature range

-30°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® INSTRUM RE-2X(ST)Y PiMF					
1270200	2x2x0.5	10.8	black	33.6	89
1270201	2x2x0.5	10.8	blue	33.6	89
1270202	4x2x0.5	12.4	black	62.4	156
1270203	4x2x0.5	12.4	blue	62.4	156
1270204	6x2x0.5	14.7	black	91.2	213
1270205	6x2x0.5	14.7	blue	91.2	213
1270206	8x2x0.5	16.7	black	120.0	259
1270207	8x2x0.5	16.7	blue	120.0	259
1270208	10x2x0.5	18.9	black	148.8	323
1270209	10x2x0.5	18.9	blue	148.8	323
1270210	12x2x0.5	19.5	black	177.6	378
1270211	12x2x0.5	19.5	blue	177.6	378
1270240	2x2x0.75	11.6	black	43.2	106
1270241	2x2x0.75	11.6	blue	43.2	106
1270242	4x2x0.75	13.5	black	81.6	195
1270243	4x2x0.75	13.5	blue	81.6	195
1270244	6x2x0.75	16.1	black	120.0	255
1270245	6x2x0.75	16.1	blue	120.0	255
1270246	8x2x0.75	18.0	black	158.4	310
1270247	8x2x0.75	18.0	blue	158.4	310
1270248	10x2x0.75	20.5	black	196.8	387
1270249	10x2x0.75	20.5	blue	196.8	387
1270250	12x2x0.75	21.3	black	235.2	451
1270251	12x2x0.75	33.9	blue	235.2	1,284
1270280	2x2x1	12.2	black	52.8	133
1270281	2x2x1	12.2	blue	52.8	133
1270282	4x2x1	14.3	black	100.8	243
1270283	4x2x1	14.3	blue	100.8	243
1270284	6x2x1	17.1	black	148.8	319
1270285	6x2x1	17.1	blue	148.8	319

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
1270286	8x2x1	19.6	black	196.8	388
1270287	8x2x1	19.6	blue	196.8	388
1270288	10x2x1	22.0	black	244.8	483
1270289	10x2x1	22.0	blue	244.8	483
1270290	12x2x1	22.7	black	292.8	563
1270291	12x2x1	22.7	blue	292.8	563
1270330	2x2x1.5	13.5	black	72.0	149
1270331	2x2x1.5	13.5	blue	72.0	149
1270332	4x2x1.5	15.8	black	139.2	284
1270333	4x2x1.5	15.8	blue	139.2	284
1270334	6x2x1.5	18.9	black	206.4	361
1270335	6x2x1.5	18.9	blue	206.4	361
1270336	8x2x1.5	21.4	black	273.6	468
1270337	8x2x1.5	21.4	blue	273.6	468
1270338	10x2x1.5	24.3	black	340.8	578
1270339	10x2x1.5	24.3	blue	340.8	578
1270340	12x2x1.5	25.1	black	408.0	680
1270341	12x2x1.5	25.1	blue	408.0	680
1270360	2x2x2.5	15.9	black	110.4	189
1270361	2x2x2.5	15.9	blue	110.4	189
1270362	4x2x2.5	18.7	black	216.0	309
1270363	4x2x2.5	18.7	blue	216.0	309
1270364	6x2x2.5	22.4	black	321.6	496
1270365	6x2x2.5	22.4	blue	321.6	496
1270366	8x2x2.5	25.4	black	427.2	667
1270367	8x2x2.5	25.4	blue	427.2	667
1270368	10x2x2.5	28.8	black	532.8	853
1270369	10x2x2.5	28.8	blue	532.8	853
1270370	12x2x2.5	30.2	black	638.4	1,055
1270371	12x2x2.5	30.2	blue	638.4	1,055

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ÖLFLEX® INSTRUM RE-2X(ST)YRY



Info

- Armoured XLPE insulation
- Overall Screen

Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Flame retardant in acc. to IEC 60332-3-24

Norm references / Approvals

- Based on EN 50288-7

Product Make-up

- Stranded plain annealed copper wires
- XLPE core insulation
- Pairs are collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC inner sheath, black
- PVC outer sheath, black or blue
- Galvanized steel wire armoured

Technical data



Classification

ETIM 5.0 Class-Description: Control cable
ETIM 5.0 Class-ID: EC000104



Core identification code

Pair: black and white
Multipair: black and white with numbers



Conductor stranding

acc. to BS 6360 / IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

500 V
< 50 VAC / < 75 VDC for Intrinsically Safe (IS) circuits application



Temperature range

-30°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® INSTRUM RE-2X(ST)YRY					
1270400	1x2x0.5	11.3	black	14.4	218
1270401	1x2x0.5	11.3	blue	14.4	218
1270402	2x2x0.5	14.4	black	24.0	335
1270403	2x2x0.5	14.4	blue	24.0	335
1270404	4x2x0.5	16.1	black	43.2	392
1270405	4x2x0.5	16.1	blue	43.2	392
1270406	6x2x0.5	19.2	black	62.4	527
1270407	6x2x0.5	19.2	blue	62.4	527
1270408	8x2x0.5	20.8	black	81.6	722
1270409	8x2x0.5	20.8	blue	81.6	722
1270410	10x2x0.5	23.8	black	100.8	822
1270411	10x2x0.5	23.8	blue	100.8	822
1270412	12x2x0.5	24.3	black	120.0	903
1270413	12x2x0.5	24.3	blue	120.0	903
1270440	1x2x0.75	11.7	black	19.2	237
1270441	1x2x0.75	11.7	blue	19.2	237
1270442	2x2x0.75	15.3	black	33.6	378
1270443	2x2x0.75	15.3	blue	33.6	378
1270444	4x2x0.75	17.6	black	62.4	526
1270445	4x2x0.75	17.6	blue	62.4	526
1270446	6x2x0.75	20.2	black	91.2	670
1270447	6x2x0.75	20.2	blue	91.2	670
1270448	8x2x0.75	22.3	black	120.0	785
1270449	8x2x0.75	22.3	blue	120.0	785
1270450	10x2x0.75	25.4	black	148.8	1,045
1270451	10x2x0.75	25.4	blue	148.8	1,045
1270452	12x2x0.75	26.2	black	177.6	1,115
1270453	12x2x0.75	26.2	blue	177.6	1,115
1270480	1x2x1	12.3	black	24.0	255
1270481	1x2x1	12.3	blue	24.0	255
1270482	2x2x1	15.9	black	43.2	385
1270483	2x2x1	15.9	blue	43.2	385
1270484	4x2x1	18.8	black	81.6	595
1270485	4x2x1	18.8	blue	81.6	595
1270486	6x2x1	21.4	black	120.0	735

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
1270487	6x2x1	21.4	blue	120.0	735
1270488	8x2x1	24.1	black	158.4	995
1270489	8x2x1	24.1	blue	158.4	995
1270490	10x2x1	26.8	black	196.8	1,153
1270491	10x2x1	26.8	blue	196.8	1,153
1270492	12x2x1	27.4	black	235.2	1,238
1270493	12x2x1	27.4	blue	235.2	1,238
1270530	1x2x1.5	12.9	black	33.6	281
1270531	1x2x1.5	12.9	blue	33.6	281
1270532	2x2x1.5	17.6	black	62.4	525
1270533	2x2x1.5	17.6	blue	62.4	525
1270534	4x2x1.5	20.0	black	120.0	676
1270535	4x2x1.5	20.0	blue	120.0	676
1270536	6x2x1.5	23.7	black	177.6	985
1270537	6x2x1.5	23.7	blue	177.6	985
1270538	8x2x1.5	26.2	black	235.2	1,162
1270539	8x2x1.5	26.2	blue	235.2	1,162
1270540	10x2x1.5	29.0	black	292.8	1,354
1270541	10x2x1.5	29.0	blue	292.8	1,354
1270542	12x2x1.5	29.9	black	350.4	1,473
1270543	12x2x1.5	29.9	blue	350.4	1,473
1270570	1x2x2.5	14.4	black	52.8	350
1270571	1x2x2.5	14.4	blue	52.8	350
1270572	2x2x2.5	20.1	black	100.8	658
1270573	2x2x2.5	20.1	blue	100.8	658
1270574	4x2x2.5	23.5	black	196.8	1,005
1270575	4x2x2.5	23.5	blue	196.8	1,005
1270576	6x2x2.5	27.2	black	292.8	1,266
1270577	6x2x2.5	27.2	blue	292.8	1,266
1270578	8x2x2.5	30.2	black	388.8	1,510
1270579	8x2x2.5	30.2	blue	388.8	1,510
1270580	10x2x2.5	33.9	black	484.8	1,818
1270581	10x2x2.5	33.9	blue	484.8	1,818
1270582	12x2x2.5	35.6	black	580.8	2,206
1270583	12x2x2.5	35.6	blue	580.8	2,206

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ÖLFLEX® INSTRUM RE-2X(ST)YRY PiMF



Info

- Armoured XLPE insulation
- Individual and Overall Screen



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Flame retardant in acc. to IEC 60332-3-24

Norm references / Approvals

- Based on EN 50288-7

Product Make-up

- Stranded plain annealed copper wires
- XLPE core insulation
- Pairs are individually and collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC inner sheath, black
- PVC outer sheath, black or blue
- Galvanized steel wire armoured

Technical data

	Classification ETIM 5.0 Class-Description: Control cable ETIM 5.0 Class-ID: EC000104
	Core identification code Pair: black and white Multipair: black and white with numbers
	Conductor stranding acc. to BS 6360 / IEC 60228 Cl. 2
	Minimum bending radius 10 x cable diameter
	Nominal voltage 500 V < 50 VAC / < 75 VDC for Intrinsically Safe (IS) circuits application
	Temperature range -30°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® INSTRUM RE-2X(ST)YRY PiMF					
1270600	2x2x0.5	15.4	black	33.6	349
1270601	2x2x0.5	15.4	blue	33.6	349
1270602	4x2x0.5	17.7	black	62.4	514
1270603	4x2x0.5	17.7	blue	62.4	514
1270604	6x2x0.5	20.2	black	91.2	629
1270605	6x2x0.5	20.2	blue	91.2	629
1270606	8x2x0.5	22.3	black	120.0	742
1270607	8x2x0.5	22.3	blue	120.0	742
1270608	10x2x0.5	25.3	black	148.8	999
1270609	10x2x0.5	25.3	blue	148.8	999
1270610	12x2x0.5	26.1	black	177.6	1,058
1270611	12x2x0.5	26.1	blue	177.6	1,058
1270640	2x2x0.75	16.1	black	43.2	383
1270641	2x2x0.75	16.1	blue	43.2	383
1270642	4x2x0.75	19.0	black	81.6	579
1270643	4x2x0.75	19.0	blue	81.6	579
1270644	6x2x0.75	21.6	black	120.0	730
1270645	6x2x0.75	21.6	blue	120.0	730
1270646	8x2x0.75	24.3	black	158.4	961
1270647	8x2x0.75	24.3	blue	158.4	961
1270648	10x2x0.75	27.0	black	196.8	1,130
1270649	10x2x0.75	27.0	blue	196.8	1,130
1270650	12x2x0.75	27.9	black	235.2	1,200
1270651	12x2x0.75	27.9	blue	235.2	1,200
1270680	2x2x1	17.5	black	52.8	497
1270681	2x2x1	17.5	blue	52.8	497
1270682	4x2x1	19.7	black	100.8	628
1270683	4x2x1	19.7	blue	100.8	628
1270684	6x2x1	23.5	black	148.8	911
1270685	6x2x1	23.5	blue	148.8	911

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
1270686	8x2x1	25.9	black	196.8	1,084
1270687	8x2x1	25.9	blue	196.8	1,084
1270688	10x2x1	28.5	black	244.8	1,255
1270689	10x2x1	28.5	blue	244.8	1,255
1270690	12x2x1	29.4	black	292.8	1,338
1270691	12x2x1	29.4	blue	292.8	1,338
1270730	2x2x1.5	19.0	black	72.0	574
1270731	2x2x1.5	19.0	blue	72.0	574
1270732	4x2x1.5	21.3	black	139.2	731
1270733	4x2x1.5	21.3	blue	139.2	731
1270734	6x2x1.5	25.3	black	206.4	1,065
1270735	6x2x1.5	25.3	blue	206.4	1,065
1270736	8x2x1.5	27.9	black	273.6	1,247
1270737	8x2x1.5	27.9	blue	273.6	1,247
1270738	10x2x1.5	31.1	black	340.8	1,473
1270739	10x2x1.5	31.1	blue	340.8	1,473
1270740	12x2x1.5	31.9	black	408.0	1,582
1270741	12x2x1.5	31.9	blue	408.0	1,582
1270760	2x2x2.5	21.4	black	110.4	710
1270761	2x2x2.5	21.4	blue	110.4	710
1270762	4x2x2.5	25.1	black	216.0	1,080
1270763	4x2x2.5	25.1	blue	216.0	1,080
1270764	6x2x2.5	29.0	black	321.6	1,370
1270765	6x2x2.5	29.0	blue	321.6	1,370
1270766	8x2x2.5	32.2	black	427.2	1,621
1270767	8x2x2.5	32.2	blue	427.2	1,621
1270768	10x2x2.5	37.0	black	532.8	2,170
1270769	10x2x2.5	37.0	blue	532.8	2,170
1270770	12x2x2.5	38.1	black	638.4	2,355
1270771	12x2x2.5	38.1	blue	638.4	2,355

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ÖLFLEX® INSTRUM RE-Y(ST)Y



Info

- Un-armoured PVC (V-90HT) Heat Resistant
- Overall Screen

Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Flame retardant in acc. to IEC 60332-3-24

Norm references / Approvals

- Based on EN 50288-7

Product Make-up

- Stranded plain annealed copper wires
- PVC (V-90HT) core insulation
- Pairs are collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC outer sheath, black or blue

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000104



Core identification code

Pair: black and white
Multipair: black and white with numbers
Multicore: black with numbers
(4C and above)



Conductor stranding

acc. to BS 6360 / IEC 60228 Cl. 2



Minimum bending radius

6 x cable diameter



Nominal voltage

500 V
< 50 VAC / < 75 VDC for Intrinsically Safe (IS) circuits application



Temperature range

-30°C to +105°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® INSTRUM RE-Y(ST)Y					
1270800	1x2x0.5	6.9	black	14.4	60
1270801	1x2x0.5	6.9	blue	14.4	60
1270802	2x2x0.5	9.8	black	24.0	86
1270803	2x2x0.5	9.8	blue	24.0	86
1270824	3x2x0.5	10.6	black	33.6	125
1270825	3x2x0.5	10.6	blue	33.6	125
1270804	4x2x0.5	11.5	black	43.2	160
1270805	4x2x0.5	11.5	blue	43.2	160
1270840	1x2x0.75	7.3	black	19.2	69
1270841	1x2x0.75	7.3	blue	19.2	69
1270842	2x2x0.75	10.7	black	33.6	104
1270843	2x2x0.75	10.7	blue	33.6	104
1270866	3x2x0.75	11.3	black	48.0	118
1270867	3x2x0.75	11.3	blue	48.0	118
1270844	4x2x0.75	12.3	black	62.4	187
1270845	4x2x0.75	12.3	blue	62.4	187
1270900	1x2x1.0	7.9	black	24.0	92
1270901	1x2x1.0	7.9	blue	24.0	92
1270902	2x2x1.0	11.3	black	43.2	129
1270903	2x2x1.0	11.3	blue	43.2	129
1270926	3x2x1.0	12.0	black	62.4	155
1270927	3x2x1.0	12.0	blue	62.4	155
1270904	4x2x1.0	13.2	black	81.6	234
1270905	4x2x1.0	13.2	blue	81.6	234
1270950	1x2x1.5	8.5	black	33.6	104
1270951	1x2x1.5	8.5	blue	33.6	104
1270952	2x2x1.5	12.3	black	62.4	155
1270953	2x2x1.5	12.3	blue	62.4	155
1270978	3x2x1.5	13.2	black	91.2	176
1270979	3x2x1.5	13.2	blue	91.2	176
1270954	4x2x1.5	14.4	black	120.0	290
1270955	4x2x1.5	14.4	blue	120.0	290
1271000	1x2x2.5	9.8	black	52.8	132
1271001	1x2x2.5	9.8	blue	52.8	132
1271002	2x2x2.5	14.6	black	100.8	226
1271003	2x2x2.5	14.6	blue	100.8	226
1271026	3x2x2.5	15.5	black	148.8	258
1271027	3x2x2.5	15.5	blue	148.8	258
1271004	4x2x2.5	17.1	black	196.8	372
1271005	4x2x2.5	17.1	blue	196.8	372

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
1271250	3x0.5	7.2	black	19.2	51
1271251	3x0.5	7.2	blue	19.2	51
1271252	4x0.5	8.0	black	24.0	63
1271253	4x0.5	8.0	blue	24.0	63
1271254	6x0.5	9.2	black	33.6	89
1271255	6x0.5	9.2	blue	33.6	89
1271268	8x0.5	10.4	black	43.2	110
1271269	8x0.5	10.4	blue	43.2	110
1271256	10x0.5	11.5	black	52.8	135
1271257	10x0.5	11.5	blue	52.8	135
1271280	3x0.75	7.9	black	26.4	61
1271281	3x0.75	7.9	blue	26.4	61
1271282	4x0.75	8.5	black	33.6	76
1271283	4x0.75	8.5	blue	33.6	76
1271284	6x0.75	9.8	black	48.0	110
1271285	6x0.75	9.8	blue	48.0	110
1271248	8x0.75	11.1	black	62.4	140
1271249	8x0.75	11.1	blue	62.4	140
1271286	10x0.75	12.4	black	76.8	173
1271287	10x0.75	12.4	blue	76.8	173
1271300	3x1.5	9.0	black	48.0	95
1271301	3x1.5	9.0	blue	48.0	95
1271302	4x1.5	9.7	black	62.4	120
1271303	4x1.5	9.7	blue	62.4	120
1271304	6x1.5	11.5	black	91.2	175
1271305	6x1.5	11.5	blue	91.2	175
1271318	8x1.5	12.8	black	120.0	225
1271319	8x1.5	12.8	blue	120.0	225
1271306	10x1.5	14.5	black	148.8	275
1271307	10x1.5	14.5	blue	148.8	275
1271340	3x2.5	9.9	black	76.8	145
1271341	3x2.5	9.9	blue	76.8	145
1271342	4x2.5	10.9	black	100.8	182
1271343	4x2.5	10.9	blue	100.8	182
1271344	6x2.5	12.8	black	148.8	266
1271345	6x2.5	12.8	blue	148.8	266
1271358	8x2.5	14.5	black	196.8	350
1271359	8x2.5	14.5	blue	196.8	350
1271346	10x2.5	16.4	black	244.8	434
1271347	10x2.5	16.4	blue	244.8	434

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ÖLFLEX® INSTRUM RE-Y(ST)Y PiMF



Info

- Un-armoured PVC (V-90HT) Heat Resistant
- Individual and Overall Screen



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Flame retardant in acc. to IEC 60332-3-24

Norm references / Approvals

- Based on EN 50288-7

Product Make-up

- Stranded plain annealed copper wires
- PVC (V-90HT) core insulation
- Pairs are individually and collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC outer sheath, black or blue

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000104



Core identification code

Pair: black and white
Multipair: black and white with numbers



Conductor stranding

acc. to BS 6360 / IEC 60228 Cl. 2



Minimum bending radius

6 x cable diameter



Nominal voltage

500 V
< 50 VAC / < 75 VDC for Intrinsically Safe (IS) circuits application



Temperature range

-30°C to +105°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® INSTRUM RE-Y(ST)Y PiMF					
1271050	2x2x0.5	10.8	black	33.6	116
1271051	2x2x0.5	10.8	blue	33.6	116
1271074	3x2x0.5	11.4	black	48.0	155
1271075	3x2x0.5	11.4	blue	48.0	155
1271052	4x2x0.5	12.4	black	62.4	202
1271053	4x2x0.5	12.4	blue	62.4	202
1271076	5x2x0.5	13.6	black	76.8	238
1271077	5x2x0.5	13.6	blue	76.8	238
1271054	6x2x0.5	14.7	black	91.2	275
1271055	6x2x0.5	14.7	blue	91.2	275
1271056	8x2x0.5	16.7	black	120.0	336
1271057	8x2x0.5	16.7	blue	120.0	336
1271058	10x2x0.5	18.9	black	148.8	418
1271059	10x2x0.5	18.9	blue	148.8	418
1271060	12x2x0.5	19.5	black	177.6	490
1271061	12x2x0.5	19.5	blue	177.6	490
1271080	2x2x0.75	11.6	black	43.2	138
1271081	2x2x0.75	11.6	blue	43.2	138
1271104	3x2x0.75	12.3	black	62.4	188
1271105	3x2x0.75	12.3	blue	62.4	188
1271082	4x2x0.75	13.5	black	81.6	252
1271083	4x2x0.75	13.5	blue	81.6	252
1271106	5x2x0.75	14.6	black	100.8	277
1271107	5x2x0.75	14.6	blue	100.8	277
1271084	6x2x0.75	16.1	black	120.0	330
1271085	6x2x0.75	16.1	blue	120.0	330
1271086	8x2x0.75	18.0	black	158.4	402
1271087	8x2x0.75	18.0	blue	158.4	402
1271088	10x2x0.75	20.5	black	196.8	501
1271089	10x2x0.75	20.5	blue	196.8	501
1271090	12x2x0.75	21.3	black	235.2	583
1271091	12x2x0.75	21.3	blue	235.2	583
1271120	2x2x1.0	12.2	black	52.8	172
1271121	2x2x1.0	12.2	blue	52.8	172
1271144	3x2x1.0	13.1	black	76.8	227
1271145	3x2x1.0	13.1	blue	76.8	227
1271122	4x2x1.0	14.3	black	100.8	315
1271123	4x2x1.0	14.3	blue	100.8	315
1271146	5x2x1.0	15.7	black	124.8	365
1271147	5x2x1.0	15.7	blue	124.8	365

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
1271124	6x2x1.0	17.1	black	148.8	413
1271125	6x2x1.0	17.1	blue	148.8	413
1271126	8x2x1.0	19.6	black	196.8	502
1271127	8x2x1.0	19.6	blue	196.8	502
1271128	10x2x1.0	22.0	black	244.8	626
1271129	10x2x1.0	22.0	blue	244.8	626
1271130	12x2x1.0	22.7	black	292.8	729
1271131	12x2x1.0	22.7	blue	292.8	729
1271160	2x2x1.5	13.5	black	72.0	193
1271161	2x2x1.5	13.5	blue	72.0	193
1271182	3x2x1.5	14.3	black	105.6	273
1271183	3x2x1.5	14.3	blue	105.6	273
1271162	4x2x1.5	15.8	black	139.2	369
1271163	4x2x1.5	15.8	blue	139.2	369
1271184	5x2x1.5	17.2	black	172.8	412
1271185	5x2x1.5	17.2	blue	172.8	412
1271164	6x2x1.5	18.9	black	206.4	468
1271165	6x2x1.5	18.9	blue	206.4	468
1271166	8x2x1.5	21.4	black	273.6	605
1271167	8x2x1.5	21.4	blue	273.6	605
1271168	10x2x1.5	24.3	black	340.8	748
1271169	10x2x1.5	24.3	blue	340.8	748
1271170	12x2x1.5	25.1	black	408.0	880
1271171	12x2x1.5	25.1	blue	408.0	880
1271200	2x2x2.5	15.9	black	110.4	259
1271201	2x2x2.5	15.9	blue	110.4	259
1271222	3x2x2.5	16.9	black	163.2	291
1271223	3x2x2.5	16.9	blue	163.2	291
1271202	4x2x2.5	18.7	black	216.0	379
1271203	4x2x2.5	18.7	blue	216.0	379
1271224	5x2x2.5	20.4	black	268.8	437
1271225	5x2x2.5	20.4	blue	268.8	437
1271204	6x2x2.5	22.4	black	321.6	666
1271205	6x2x2.5	22.4	blue	321.6	666
1271206	8x2x2.5	25.4	black	427.2	847
1271207	8x2x2.5	25.4	blue	427.2	847
1271208	10x2x2.5	28.8	black	532.8	1,061
1271209	10x2x2.5	28.8	blue	532.8	1,061
1271210	12x2x2.5	30.2	black	638.4	1,249
1271211	12x2x2.5	30.2	blue	638.4	1,249

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ÖLFLEX® INSTRUM RE-Y(ST)YRY



Info

- Armoured PVC (V-90HT) Heat Resistant
- Overall Screen

Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Flame retardant in acc. to IEC 60332-3-24

Norm references / Approvals

- Based on EN 50288-7

Product Make-up

- Stranded plain annealed copper wires
- PVC (V-90HT) core insulation
- Pairs are collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC inner sheath, black
- PVC outer sheath, black or blue
- Galvanized steel wire armoured

Technical data

Classification
 ETIM 5.0 Class-Description: Data cable
 ETIM 5.0 Class-ID: EC000104

Core identification code
 Pair: black and white
 Multipair: black and white with numbers
 Multicore: black with numbers (4C and above)

Conductor stranding
 acc. to BS 6360 / IEC 60228 Cl. 2

Minimum bending radius
 10 x cable diameter

Nominal voltage
 500 V
 < 50 VAC / < 75 VDC for Intrinsically Safe (IS) circuits application

Temperature range
 -30°C to +105°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® INSTRUM RE-Y(ST)YRY					
1271380	1x2x0.5	11.3	black	14.4	248
1271381	1x2x0.5	11.3	blue	14.4	248
1271382	2x2x0.5	14.4	black	24.0	365
1271383	2x2x0.5	14.4	blue	24.0	365
1271404	3x2x0.5	15.2	black	33.6	406
1271405	3x2x0.5	15.2	blue	33.6	406
1271384	4x2x0.5	16.1	black	43.2	455
1271385	4x2x0.5	16.1	blue	43.2	455
1271420	1x2x0.75	11.7	black	19.2	264
1271421	1x2x0.75	11.7	blue	19.2	264
1271422	2x2x0.75	15.3	black	33.6	395
1271423	2x2x0.75	15.3	blue	33.6	395
1271444	3x2x0.75	15.9	black	48.1	486
1271445	3x2x0.75	15.9	blue	48.1	486
1271424	4x2x0.75	17.6	black	62.4	603
1271425	4x2x0.75	17.6	blue	62.4	603
1271460	1x2x1.0	12.3	black	24.0	270
1271461	1x2x1.0	12.3	blue	24.0	270
1271462	2x2x1.0	15.9	black	43.2	429
1271463	2x2x1.0	15.9	blue	43.2	429
1271486	3x2x1.0	17.3	black	62.4	569
1271487	3x2x1.0	17.3	blue	62.4	569
1271464	4x2x1.0	18.8	black	81.6	753
1271465	4x2x1.0	18.8	blue	81.6	753
1271500	1x2x1.5	12.9	black	33.6	336
1271501	1x2x1.5	12.9	blue	33.6	336
1271502	2x2x1.5	17.6	black	62.4	589
1271503	2x2x1.5	17.6	blue	62.4	589
1271524	3x2x1.5	18.7	black	91.2	675
1271525	3x2x1.5	18.7	blue	91.2	675
1271504	4x2x1.5	20.0	black	120.0	849
1271505	4x2x1.5	20.0	blue	120.0	849
1271550	1x2x2.5	14.4	black	52.8	407
1271551	1x2x2.5	14.4	blue	52.8	407
1271552	2x2x2.5	20.1	black	100.8	689
1271553	2x2x2.5	20.1	blue	100.8	689
1271576	3x2x2.5	21.0	black	148.8	855
1271577	3x2x2.5	21.0	blue	148.8	855
1271554	4x2x2.5	23.5	black	196.8	1,111
1271555	4x2x2.5	23.5	blue	196.8	1,111

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
1271800	3x0.5	11.6	black	19.2	280
1271801	3x0.5	11.6	blue	19.2	280
1271802	4x0.5	12.4	black	24.0	335
1271803	4x0.5	12.4	blue	24.0	335
1271804	6x0.5	13.6	black	33.6	360
1271805	6x0.5	13.6	blue	33.6	360
1271818	8x0.5	15.0	black	43.2	445
1271819	8x0.5	15.0	blue	43.2	445
1271806	10x0.5	16.1	black	52.8	510
1271807	10x0.5	16.1	blue	52.8	510
1271830	3x0.75	12.3	black	26.4	305
1271831	3x0.75	12.3	blue	26.4	305
1271832	4x0.75	12.9	black	33.6	355
1271833	4x0.75	12.9	blue	33.6	355
1271834	6x0.75	14.5	black	48.0	400
1271835	6x0.75	14.5	blue	48.0	400
1271848	8x0.75	15.7	black	62.4	502
1271849	8x0.75	15.7	blue	62.4	502
1271836	10x0.75	17.9	black	76.8	565
1271837	10x0.75	17.9	blue	76.8	565
1271860	3x1.5	13.3	black	48.0	380
1271861	3x1.5	13.3	blue	48.0	380
1271862	4x1.5	14.1	black	62.4	420
1271863	4x1.5	14.1	blue	62.4	420
1271864	6x1.5	16.1	black	91.2	540
1271865	6x1.5	16.1	blue	91.2	540
1271879	8x1.5	18.3	black	120.0	618
1271880	8x1.5	18.3	blue	120.0	618
1271866	10x1.5	20.0	black	148.8	750
1271867	10x1.5	20.0	blue	148.8	750
1271900	3x2.5	15.1	black	76.8	500
1271901	3x2.5	15.1	blue	76.8	500
1271902	4x2.5	16.0	black	100.8	535
1271903	4x2.5	16.0	blue	100.8	535
1271904	6x2.5	19.1	black	148.8	780
1271905	6x2.5	19.1	blue	148.8	780
1271918	8x2.5	20.7	black	196.8	856
1271919	8x2.5	20.7	blue	196.8	856
1271906	10x2.5	23.6	black	244.8	940
1271907	10x2.5	23.6	blue	244.8	940

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ÖLFLEX® INSTRUM RE-Y(ST)YRY PiMF



Info

- Armoured PVC (V-90HT) Heat Resistant
- Individual and Overall Screen



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Flame retardant in acc. to IEC 60332-3-24

Norm references / Approvals

- Based on EN 50288-7

Product Make-up

- Stranded plain annealed copper wires
- PVC (V-90HT) core insulation
- Pairs are individually and collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC inner sheath, black
- PVC outer sheath, black or blue
- Galvanized steel wire armoured

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000104



Core identification code

Pair: black and white
Multipair: black and white with numbers
Multicore: black with numbers



Conductor stranding

acc. to BS 6360 / IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

500 V
< 50 VAC / < 75 VDC for Intrinsically Safe (IS) circuits application



Temperature range

-30°C to +105°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® INSTRUM RE-Y(ST)YRY PiMF					
1271600	2x2x0.5	15.4	black	33.6	116
1271601	2x2x0.5	15.4	blue	33.6	116
1271624	3x2x0.5	16.0	black	48.0	155
1271625	3x2x0.5	16.0	blue	48.0	155
1271602	4x2x0.5	17.7	black	62.4	202
1271603	4x2x0.5	17.7	blue	62.4	202
1271626	5x2x0.5	19.1	black	76.8	238
1271627	5x2x0.5	19.1	blue	76.8	238
1271604	6x2x0.5	20.2	black	91.2	275
1271605	6x2x0.5	20.2	blue	91.2	275
1271606	8x2x0.5	22.3	black	120.0	336
1271607	8x2x0.5	22.3	blue	120.0	336
1271608	10x2x0.5	25.3	black	148.8	418
1271609	10x2x0.5	25.3	blue	148.8	418
1271610	12x2x0.5	26.1	black	177.6	490
1271611	12x2x0.5	26.1	blue	177.6	490
1271080	2x2x0.75	16.1	black	43.2	451
1271081	2x2x0.75	16.1	blue	43.2	451
1271104	3x2x0.75	17.5	black	62.4	565
1271105	3x2x0.75	17.5	blue	62.4	565
1271082	4x2x0.75	19.0	black	81.6	717
1271083	4x2x0.75	19.0	blue	81.6	717
1271106	5x2x0.75	20.1	black	100.8	838
1271107	5x2x0.75	20.1	blue	100.8	838
1271084	6x2x0.75	21.6	black	120.0	952
1271085	6x2x0.75	21.6	blue	120.0	952
1271086	8x2x0.75	24.3	black	158.4	1,084
1271087	8x2x0.75	24.3	blue	158.4	1,084
1271088	10x2x0.75	27.0	black	196.8	1,458
1271089	10x2x0.75	27.0	blue	196.8	1,458
1271090	12x2x0.75	27.9	black	235.2	1,612
1271091	12x2x0.75	27.9	blue	235.2	1,612
1271680	2x2x1.0	17.5	black	52.8	564
1271681	2x2x1.0	17.5	blue	52.8	564
1271704	3x2x1.0	18.6	black	76.8	710
1271705	3x2x1.0	18.6	blue	76.8	710
1271682	4x2x1.0	19.7	black	100.8	879
1271683	4x2x1.0	19.7	blue	100.8	879
1271706	5x2x1.0	21.0	black	124.8	998
1271707	5x2x1.0	21.0	blue	124.8	998

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
1271684	6x2x1.0	23.5	black	148.8	1,189
1271685	6x2x1.0	23.5	blue	148.8	1,189
1271686	8x2x1.0	25.9	black	196.8	1,354
1271687	8x2x1.0	25.9	blue	196.8	1,354
1271688	10x2x1.0	28.5	black	244.8	1,822
1271689	10x2x1.0	28.5	blue	244.8	1,822
1271690	12x2x1.0	29.4	black	292.8	2,014
1271691	12x2x1.0	29.4	blue	292.8	2,014
1271720	2x2x1.5	19.0	black	72.0	644
1271721	2x2x1.5	19.0	blue	72.0	644
1271746	3x2x1.5	19.8	black	105.6	788
1271747	3x2x1.5	19.8	blue	105.6	788
1271722	4x2x1.5	21.3	black	139.2	970
1271723	4x2x1.5	21.3	blue	139.2	970
1271742	5x2x1.5	23.6	black	172.8	1,128
1271743	5x2x1.5	23.6	blue	172.8	1,128
1271724	6x2x1.5	25.3	black	206.4	1,315
1271725	6x2x1.5	25.3	blue	206.4	1,315
1271726	8x2x1.5	27.9	black	273.6	1,584
1271727	8x2x1.5	27.9	blue	273.6	1,584
1271728	10x2x1.5	31.1	black	340.8	1,865
1271729	10x2x1.5	31.1	blue	340.8	1,865
1271730	12x2x1.5	31.9	black	408.0	2,085
1271731	12x2x1.5	31.9	blue	408.0	2,085
1271760	2x2x2.5	21.4	black	110.4	803
1271761	2x2x2.5	21.4	blue	110.4	803
1271784	3x2x2.5	22.6	black	163.2	956
1271785	3x2x2.5	22.6	blue	163.2	956
1271762	4x2x2.5	25.1	black	216.0	1,139
1271763	4x2x2.5	25.1	blue	216.0	1,139
1271786	5x2x2.5	27.0	black	268.8	1,386
1271787	5x2x2.5	27.0	blue	268.8	1,386
1271764	6x2x2.5	29.0	black	321.6	1,705
1271765	6x2x2.5	29.0	blue	321.6	1,705
1271766	8x2x2.5	32.2	black	427.2	1,997
1271767	8x2x2.5	32.2	blue	427.2	1,997
1271768	10x2x2.5	37.0	black	532.8	2,376
1271769	10x2x2.5	37.0	blue	532.8	2,376
1271770	12x2x2.5	38.1	black	638.4	2,717
1271771	12x2x2.5	38.1	blue	638.4	2,717

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ÖLFLEX® VSD ULTRA YSLCY

EMC-optimised cable for variable speed drives, double screened



Info

- Rated voltage U_0 / U : 0.6 / 1 kV

Benefits

- High power transmission for large drives
- Symmetrical 3+3 Version supports the reduction of damaging bearing currents
- Suitable for outdoor use

Application range

- Connecting cable between frequency converter and motor
- In dry, damp or wet interiors

Product features

- Flame-retardant according IEC 60332-1-2

Norms references / Approvals

- Based on VDE 0276-603, HD 603 S1, AS/NZS 5000.1

Product Make-up

- Fine-wire, bare copper conductor
- Core insulation: PVC
- Cores twisted concentrically (symmetrically splitted protective conductor of 3+3 version is gusset-filling divided between the power cores)
- Screening: wrapping of copper foil in combination with tinned copper braiding
- PVC outer sheath, black

Technical data



Conductor stranding

Fine wire according to VDE 0295 Class 5 / IEC 60228 Class 5



Minimum bending radius

Fixed installation: 4 x outer diameter



Nominal voltage

U_0 / U : 0.6 / 1 kV



Test voltage

4000 V



Temperature range

Fixed installation: -15°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® VSD ULTRA YSLCY / 4-core version				
3804244A	4 G 1	11.7	87.4	202
3804245A	4 G 1.5	12.3	112.4	231
3804246A	4 G 2.5	13.6	157.6	291
3804247A	4 G 4	16.0	224.3	407
3804248A	4 G 6	17.4	318.2	505
3804249A	4 G 10	20.5	534.6	750
3804250A	4 G 16	23.1	756.8	999
3804251A	4 G 25	27.6	1,128.7	1,455
3804252A	4 G 35	30.7	1,571.8	1,943
ÖLFLEX® VSD ULTRA YSLCY / 3+3 split earth version				
3804269A	3x6 + 3G1.5	17.5	303.9	570
3804261A	3x10 + 3G1.5	19.0	449.9	739
3804270A	3x16 + 3G2.5	21.5	673.5	1,004
3804263A	3x25 + 3G4	25.2	1,006.0	1,466
3804264A	3x35 + 3G6	28.3	1,404.2	1,913
3804265A	3x50 + 3G10	33.4	2,000.6	2,688

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ÖLFLEX® FR-6387 SC

Fire resistant cables

Info

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class 1A
- Single-core power cable, 0.6/1 kV

LAPP KABEL STUTTGART ÖLFLEX® FIRE 6387 SC BS6387 CWZ TÜV SUD PSB LISTED SS299-1 LIC00377

Application range

- Specially designed to be use for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators
- Plant engineering and construction, industrial machinery, power station

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Norm references / Approvals

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class 1A
- Approved to IEC 60332-3-22 Cat. A

Product Make-up

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- LSHF insulation - flame retardant
- Colour: orange

Technical data

- Classification**
ETIM 5.0 Class-Description: Low voltage power cable
ETIM 5.0 Class-ID: EC000057
- Conductor stranding**
acc. to IEC 60228 Cl. 2
- Minimum bending radius**
10 x cable diameter
- Nominal voltage**
U₀/U: 600/1000 V
- Temperature range**
-15°C to +85°C

Article number	Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
FR-6387 SC				
3806501	1	3.8	9.6	25
3806502	1.5	4.1	14.4	32
3806503	2.5	4.6	24.0	44
3806504	4	5.3	38.4	64
3806505	6	5.9	57.6	88
3806506	10	6.8	96.0	131
3806507	16	8.1	153.6	196
3806508	25	9.4	240.0	289
3806509	35	10.7	336.0	394
3806510	50	12.3	480.0	545
3806511	70	14.2	672.0	752
3806512	95	16.0	912.0	992
3806513	120	17.8	1,152.0	1,243
3806514	150	19.7	1,440.0	1,543
3806515	185	21.6	1,776.0	1,889
3806516	240	24.3	2,304.0	2,438
3806517	300	26.9	2,880.0	3,017

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ÖLFLEX® FIRE 6387 SC TWISTED

Fire resistant cables



Application range

- Specially designed to be used for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Norm references / Approvals

- Fire test certified and approved to BS 6387 Cat. CWZ, and SS 299 PLS Class 1A, reference to FR-6387 SC 1x1.5mm², PN: 3806502

Product Make-up

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- LSHF insulation - flame retardant
- 2 single-core wire twisted together
- Colour: Black/Red



Info

- Fire test certified and approved to BS 6387 Cat. CWZ, and SS 299 PLS Class 1A, reference to FR-6387 SC 1x1.5mm², PN: 3806502
- 2 single-core wire twisted, 0.6/1kV

Technical data



Classification

ETIM 5.0 Class-Description: Low voltage power cable
ETIM 5.0 Class-ID: EC000057



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

U₀/U: 600/1000 V



Temperature range

-15°C to +85°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
FR-6387 SC TWISTED				
3804079	2x (1x1.5) Twisted	8.2	28.8	64

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ÖLFLEX® FIRE 6387 OS

Fire resistant cables

Info

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class 1A
- Instrumentation cable, 300/500 V

Application range

- Specially designed to be used for wiring applications in critical life safety systems in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators
- Plant engineering and construction, industrial machinery, power station

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Norm references / Approvals

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class 1A
- Approved to IEC 60332-3-22 Cat. A

Product Make-up

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- XLPE insulation
- Mylar tape wrapping
- Aluminium/mylar tape screen in contact with drain wire
- LSHF outer sheath
- Colour: orange

Technical data

- Classification**
ETIM 5.0 Class-Description: Control cable
ETIM 5.0 Class-ID: EC000104
- Core identification code**
Pair: BK/RD or BU/BN
Multipair: BK/WH with numbering
Multicore: 3C and above WH with numbering
- Conductor stranding**
acc. to IEC 60228 Cl. 2
- Minimum bending radius**
10 x cable diameter
- Nominal voltage**
U₀/U: 300/500 V
- Temperature range**
-30°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
FR-6387 OS					
3805860	1 x 2 x 1.0	7.8	BK/RD	24.0	75
3805861	1 x 2 x 1.0	7.8	BU/BN	24.0	75
3805862	2 x 2 x 1.0	11.4	WH/BK	43.2	132
3805863	3 x 2 x 1.0	13.0	WH/BK	62.4	172
3805864	4 x 2 x 1.0	14.8	WH/BK	81.6	218
3805865	6 x 2 x 1.0	17.8	WH/BK	120.0	310
3805866	8 x 2 x 1.0	20.3	WH/BK	158.4	406
3805867	10 x 2 x 1.0	22.5	WH/BK	196.8	492
3805868	12 x 2 x 1.0	24.5	WH/BK	235.2	574
3805869	15 x 2 x 1.0	27.2	WH/BK	292.8	711
3805870	20 x 2 x 1.0	31.1	WH/BK	388.8	925
3805971	24 x 2 x 1.0	34.0	WH/BK	465.6	1,094
3805880	1 x 2 x 1.5	8.4	BK/RD	33.6	89
3805881	1 x 2 x 1.5	8.4	BU/BN	33.6	89
3805882	2 x 2 x 1.5	12.3	WH/BK	62.4	163
3805883	3 x 2 x 1.5	14.2	WH/BK	91.2	216
3805884	4 x 2 x 1.5	16.1	WH/BK	120.0	277
3805885	6 x 2 x 1.5	19.4	WH/BK	177.6	396
3805886	8 x 2 x 1.5	22.1	WH/BK	235.2	520
3805887	10 x 2 x 1.5	24.6	WH/BK	292.8	634
3805888	12 x 2 x 1.5	26.8	WH/BK	350.4	743
3805889	15 x 2 x 1.5	29.7	WH/BK	436.8	921
3805890	20 x 2 x 1.5	34.1	WH/BK	580.8	1,203
3805891	24 x 2 x 1.5	37.2	WH/BK	696.0	1,426
3805900	1 x 2 x 2.5	10.3	BK/RD	52.8	123
3805901	1 x 2 x 2.5	10.3	BU/BN	52.8	123
3805902	2 x 2 x 2.5	14.7	WH/BK	100.8	231
3805903	3 x 2 x 2.5	17.0	WH/BK	148.8	314
3805904	4 x 2 x 2.5	19.4	WH/BK	196.8	405
3805905	6 x 2 x 2.5	23.4	WH/BK	292.8	585
3805906	8 x 2 x 2.5	26.8	WH/BK	388.8	768
3805907	10 x 2 x 2.5	29.7	WH/BK	484.8	942
3805908	12 x 2 x 2.5	32.4	WH/BK	580.8	1,111
3805909	15 x 2 x 2.5	36.1	WH/BK	724.8	1,378
3805910	20 x 2 x 2.5	41.4	WH/BK	964.8	1,809
3805911	24 x 2 x 2.5	45.2	WH/BK	1,156.8	2,150

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
3805921	2 X 1.0	7.8	BK/RD	24.0	75
3805922	2 X 1.0	7.8	BU/BN	24.0	75
3805923	3 X 1.0	8.6	WH	33.6	93
3805924	4 X 1.0	9.4	WH	43.2	113
3805925	5 X 1.0	10.3	WH	52.8	140
3805926	7 X 1.0	11.3	WH	72.0	175
3805927	8 X 1.0	12.8	WH	81.6	204
3805928	10 X 1.0	14.5	WH	100.8	253
3805929	12 X 1.0	15.1	WH	120.0	285
3805930	14 X 1.0	15.9	WH	139.2	324
3805931	16 X 1.0	16.8	WH	158.4	370
3805932	19 X 1.0	17.8	WH	187.2	422
3805933	24 X 1.0	21.0	WH	235.2	540
3805941	2 X 1.5	8.4	BK/RD	33.6	89
3805942	2 X 1.5	8.4	BU/BN	33.6	89
3805943	3 X 1.5	9.3	WH	48.0	114
3805944	4 X 1.5	10.2	WH	62.4	142
3805945	5 X 1.5	11.2	WH	76.8	177
3805946	7 X 1.5	12.3	WH	105.6	223
3805947	8 X 1.5	13.9	WH	120.0	260
3805948	10 X 1.5	15.8	WH	148.8	323
3805949	12 X 1.5	16.4	WH	177.6	367
3805950	14 X 1.5	17.3	WH	206.4	419
3805951	16 X 1.5	18.3	WH	235.2	479
3805952	19 X 1.5	19.4	WH	278.4	549
3805953	24 X 1.5	23.0	WH	350.4	697
3805961	2 X 2.5	10.3	BK/RD	52.8	123
3805962	2 X 2.5	10.3	BU/BN	52.8	123
3805963	3 X 2.5	11.0	WH	76.8	162
3805964	4 X 2.5	12.1	WH	100.8	204
3805965	5 X 2.5	13.4	WH	124.8	257
3805966	7 X 2.5	14.7	WH	172.8	327
3805967	8 X 2.5	16.6	WH	196.8	381
3805968	10 X 2.5	19.0	WH	224.8	474
3805969	12 X 2.5	19.7	WH	292.8	545
3805970	14 X 2.5	20.8	WH	340.8	624
3805971	16 X 2.5	22.1	WH	388.8	715
3805972	19 X 2.5	23.4	WH	460.8	823
3805973	24 X 2.5	27.8	WH	580.0	1,051

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ÖLFLEX® FIRE 6387 MC

Fire resistant cables



Info

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class 1A
- Multicore power cable, 0.6/1 kV

Application range

- Specially designed to be used for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators
- Plant engineering and construction, industrial machinery, power station

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Norm references / Approvals

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class 1A
- Approved to IEC 60332-3-22 Cat. A

Product Make-up

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- XLPE insulation
- LSHF outer sheath
- Colour: orange

Technical data

- Classification**
ETIM 5.0 Class-Description: Low voltage power cable
ETIM 5.0 Class-ID: EC000057
- Conductor stranding**
acc. to IEC 60228 Cl. 2
- Minimum bending radius**
10 x cable diameter
- Nominal voltage**
U₀/U: 600/1000 V
- Temperature range**
-30°C to 90°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
FR-6387 MC				
3806521	2 X 1.5	10.0	28.8	126
3806522	2 X 2.5	10.9	48.0	160
3806523	2 X 4	12.3	76.8	218
3806524	2 X 6	13.6	115.2	285
3806525	2 X 10	15.5	192.0	404
3806526	2 X 16	17.8	307.2	573
3806527	2 X 25	21.4	480.0	852
3806531	3 X 1.5	10.7	43.2	151
3806532	3 X 2.5	11.6	72.0	195
3806533	3 X 4	13.2	115.2	270
3806534	3 X 6	14.5	172.8	359
3806535	3 X 10	16.6	288.0	520
3806536	3 X 16	19.1	460.8	748
3806537	3 X 25	23.0	720.0	1,120
3806541	4 X 1.5	11.7	57.6	181
3806542	4 X 2.5	12.8	96.0	236
3806543	4 X 4	14.5	153.6	332
3806544	4 X 6	16.0	230.4	445
3806545	4 X 10	18.4	384.0	650
3806546	4 X 16	21.1	614.4	942
3806547	4 X 25	25.4	960.0	1,416
3806551	5 X 1.5	12.8	72.0	215
3806552	5 X 2.5	14.1	120.0	283
3806553	5 X 4	16.0	192.0	399
3806554	5 X 6	17.7	288.0	538
3806555	5 X 10	20.3	480.0	790
3806556	5 X 16	23.3	768.0	1,149
3806557	5 X 25	28.1	1,200.0	1,732

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ÖLFLEX® FIRE 6387 MC CONTROL

Fire resistant cables

Info

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class 1A
- Multicore control cable, 300/500 V



Application range

- Specially designed to be used for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators
- Plant engineering and construction, industrial machinery, power station

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Norm references / Approvals

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class 1A
- Approved to IEC 60332-3-22 Cat. A

Product Make-up

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- XLPE insulation
- Mylar tape wrapping
- Binder tape
- LSHF outer sheath
- Colour: orange

Technical data

	Classification ETIM 5.0 Class-Description: Control cable ETIM 5.0 Class-ID: EC000104
	Conductor stranding acc. to IEC 60228 Cl. 2
	Minimum bending radius 10 x cable diameter
	Nominal voltage U ₀ /U: 300/500 V
	Temperature range -30°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
FR-6387 MC CONTROL					
3806560	2 X 1.0	7.8	BK/RD	19.2	69
3806561	2 X 1.0	7.8	BK/WH	19.2	69
3806562	2 X 1.0	7.8	BU/BN	19.2	69
3806563	3 X 1.0	8.8	BN/BK/GY	28.8	88
3806564	4 X 1.0	9.6	BU/BN/BK/GY	38.4	110
3806565	5 X 1.0	10.5	GNYE/BU/BN/BK/GY	48.0	136
3806566	7 X 1.0	11.5	WH	67.2	170
3806567	8 X 1.0	13.0	WH	76.8	199
3806568	10 X 1.0	14.8	WH	96.0	255
3806569	12 X 1.0	15.3	WH	115.2	281
3806570	14 X 1.0	16.2	WH	134.4	321
3806571	16 X 1.0	17.1	WH	153.6	367
3806572	19 X 1.0	18.1	WH	182.4	420
3806573	24 X 1.0	21.4	WH	230.4	545
3806580	2 X 1.5	8.4	BK/RD	28.8	88
3806581	2 X 1.5	8.4	BK/WH	28.8	88
3806582	2 X 1.5	8.4	BU/BN	28.8	88
3806583	3 X 1.5	9.9	BN/BK/GY	43.2	115
3806584	4 X 1.5	10.9	BU/BN/BK/GY	57.6	147
3806585	5 X 1.5	12.0	GNYE/BU/BN/BK/GY	72.0	182
3806586	7 X 1.5	13.1	WH	100.8	230
3806587	8 X 1.5	14.8	WH	115.2	268
3806588	10 X 1.5	17.0	WH	144.0	346
3806589	12 X 1.5	17.6	WH	172.8	383
3806590	14 X 1.5	18.5	WH	201.6	438
3806591	16 X 1.5	19.6	WH	230.4	502
3806592	19 X 1.5	20.8	WH	273.6	576
3806593	24 X 1.5	24.6	WH	345.6	749
3806600	2 X 2.5	10.5	BK/RD	48.0	118
3806601	2 X 2.5	10.5	BK/WH	48.0	118
3806602	2 X 2.5	10.5	BU/BN	48.0	118
3806603	3 X 2.5	11.2	BN/BK/GY	72.0	157
3806604	4 X 2.5	12.3	BU/BN/BK/GY	96.0	203
3806605	5 X 2.5	13.5	GNYE/BU/BN/BK/GY	120.0	253
3806606	7 X 2.5	14.9	WH	168.0	322
3806607	8 X 2.5	16.9	WH	192.0	376
3806608	10 X 2.5	19.3	WH	240.0	485
3806609	12 X 2.5	20.0	WH	288.0	541
3806610	14 X 2.5	21.1	WH	336.0	621
3806611	16 X 2.5	22.4	WH	384.0	713
3806612	19 X 2.5	23.7	WH	456.0	821
3806613	24 X 2.5	28.1	WH	576.0	1,066

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Power and control cables

Special Applications



ÖLFLEX® CLEANROOM FD 8110



Info

- Low voltage power and control cable for CLEANROOM
- Stranded copper conductor according to IEC60228 Cl.6
- Unarmoured, PVC Insulation, PVC Outer sheath cable

Benefits

- Cost-effective solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter
- Well-proven and reliable

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- CLEANROOM

Product features

- Flame retardant according to IEC 60332-1-2
- Low-adhesive surface
- Power Chain application

Product Make-up

- Conductor : Extra-fine wire strand made of bare copper wires (class 6)
- Core insulation : Polyvinyl Chloride
- Core insulation colour : Black
- Outer sheath : Polyvinyl Chloride
- Outer sheath colour : Black

Technical data



Conductor stranding

Stranded made of bare copper wire (Design acc.to IEC60228 Cl.6)



Minimum bending radius

For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter



Rated voltage

300/500 V



Test voltage

4000 V



Temperature range

Flexing: 0°C up to +70 °C
Fixed installation: -40°C up to +80°C

Norm references / Approvals

- CLEANROOM classification for IPA Class 1

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8110				
85130000	2 X 0.5	5.0	10.0	30
85130001	3 G 0.5	5.3	14.0	38
85130002	4 G 0.5	5.7	19.0	48
85130003	5 G 0.5	6.2	24.0	58
85130004	7 G 0.5	7.3	34.0	82
85130005	10 G 0.5	9.0	48.0	129
85130006	12 G 0.5	10.1	58.0	124
85130007	18 G 0.5	13.6	86.0	192
85130008	2 X 0.75	5.5	14.0	37
85130009	3 G 0.75	5.8	22.0	48
85130010	4 G 0.75	6.3	29.0	61
85130011	5 G 0.75	6.8	36.0	75
85130012	7 G 0.75	8.2	50.0	110
85130013	12 G 0.75	11.4	86.0	167
85130014	15 G 0.75	12.1	108.0	195
85130015	16 G 0.75	14.0	115.0	228
85130016	18 G 0.75	15.2	130.0	257
85130017	2 X 1.0	5.8	19.0	44
85130018	3 G 1.0	6.1	29.0	57
85130019	4 G 1.0	6.6	38.0	74
85130020	5 G 1.0	7.2	48.0	91
85130021	7 G 1.0	8.7	67.0	133
85130022	12 G 1.0	12.2	115.0	203
85130023	14 G 1.0	13.7	134.0	242
85130024	16 G 1.0	15.0	154.0	277
85130025	18 X 1.0	16.5	173.0	320
85130026	2 X 1.5	6.5	29.0	59

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
85130027	3 G 1.5	6.9	43.0	78
85130028	4 G 1.5	7.5	58.0	101
85130029	5 G 1.5	8.4	72.0	128
85130030	7 G 1.5	10.0	101.0	186
85130031	9 G 1.5	11.7	130.0	252
85130032	12 G 1.5	13.9	173.0	285
85130033	16 G 1.5	17.1	230.0	386
85130034	18 G 1.5	18.8	259.0	444
85130035	3 G 2.5	8.9	72.0	127
85130036	4 G 2.5	9.8	96.0	164
85130037	5 G 2.5	10.9	120.0	208
85130038	7 G 2.5	13.2	168.0	307
85130039	12 G 2.5	18.5	288.0	471
85130040	14 G 2.5	20.7	336.0	557
85130041	18 G 2.5	25.0	432.0	729
85130042	3 G 4.0	10.4	115.0	185
85130043	4 G 4.0	11.4	154.0	240
85130044	5 G 4.0	12.7	192.0	304
85130045	4 G 6.0	13.9	230.0	356
85130046	5 G 6.0	15.4	288.0	449
85130047	7 G 6.0	18.6	403.0	656
85130048	4 G 10.0	17.2	384.0	569
85130049	5 G 10.0	19.1	480.0	718
85130050	4 G 16.0	20.5	614.0	851
85130051	5 G 16.0	22.9	768.0	1,085
85130053	4 G 25.0	25.9	960.0	1,355
85130052	3 G 35.0	25.7	1,008.0	1,316

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ÖLFLEX® CLEANROOM FD 8110 C

Info

- Low voltage power and control cable for CLEANROOM
- Stranded copper conductor according to IEC60228 Cl.6
- Sheilded, PVC Insulation, PVC Outer sheath cable



Benefits

- Cost-effective solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter
- Well-proven and reliable

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- CLEANROOM

Product features

- Flame retardant according to IEC 60332-1-2
- Low-adhesive surface
- Designed for travel distances up to 10 meters, travel speeds up to 10 m/s

Product Make-up

- Conductor : Extra-fine wire strand made of bare copper wires (class 6)
- Core insulation : Polyvinyl Chloride
- Core insulation colour : Black
- Tinned-copper braiding
- Outer sheath : Polyvinyl Chloride
- Outer sheath colour : Black

Technical data

- Conductor stranding**
Stranded made of bare copper wire (Design acc.to IEC60228 Cl.6)
- Minimum bending radius**
For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter
- Rated voltage**
300/500 V
- Test voltage**
4000 V
- Temperature range**
Flexing: 0°C up to +70 °C
Fixed installation: -40°C up to +80°C

Norm references / Approvals

- CLEANROOM classification for IPA Class 1

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8110 C				
85130100	2 X 0.5	6.9	29.0	83
85130101	3 G 0.5	7.3	35.0	97
85130102	4 G 0.5	7.9	40.0	113
85130103	5 G 0.5	8.4	48.0	130
85130104	7 G 0.5	9.8	62.0	177
85130105	12 G 0.5	11.3	100.0	219
85130106	18 G 0.5	13.4	154.0	287
85130107	2 X 0.75	7.3	36.0	95
85130108	3 G 0.75	7.8	43.0	112
85130109	4 G 0.75	8.4	52.0	132
85130110	5 G 0.75	9.0	62.0	153
85130111	7 G 0.75	10.7	83.0	216
85130112	12 G 0.75	12.4	132.0	267
85130113	16 G 0.75	14.2	186.0	344
85130114	18 G 0.75	14.9	213.0	373
85130115	2 X 1.0	7.7	41.0	105
85130116	3 G 1.0	8.2	51.0	126
85130117	4 G 1.0	8.9	64.0	152
85130118	5 G 1.0	9.8	77.0	186
85130119	7 G 1.0	11.4	101.0	249
85130120	12 G 1.0	13.4	178.0	331
85130121	16 G 1.0	15.2	228.0	401
85130122	18 G 1.0	16.1	261.0	439
85130123	2 X 1.5	8.4	53.0	127

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
85130124	3 G 1.5	9.0	69.0	155
85130125	4 G 1.5	9.9	86.0	194
85130126	5 G 1.5	10.9	104.0	235
85130127	7 G 1.5	12.7	140.0	318
85130128	12 G 1.5	15.1	242.0	433
85130129	17 G 1.5	16.8	173.0	512
85130130	18 G 1.5	17.8	353.0	551
85130131	3 G 2.5	10.8	105.0	223
85130132	4 G 2.5	11.8	136.0	276
85130133	5 G 2.5	13.2	177.0	354
85130134	7 G 2.5	15.8	241.0	501
85130135	9 G 2.5	18.1	289.0	604
85130136	12 G 2.5	18.2	385.0	609
85130137	14 G 2.5	19.8	481.0	728
85130138	3 G 4.0	11.4	168.0	351
85130139	4 G 4.0	13.7	213.0	438
85130140	5 G 4.0	15.3	256.0	424
85130146	4 G 6.0	16.1	299.0	474
85130147	5 G 6.0	17.7	363.0	579
85130141	4 G 10.0	20.2	491.0	858
85130142	5 G 10.0	22.2	599.0	1043
85130143	4 G 16.0	23.6	738.0	1198
85130144	5 G 16.0	26.6	932.0	1539
85130145	4 G 25.0	28.2	1145.0	1788

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ÖLFLEX® CLEANROOM FD 8661 MC



Info

- Low voltage power and control cable for CLEANROOM
- Improved characteristic in the moving performance

Benefits

- High performance moving solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- High mechanical stress in CLEANROOM conditions

Norm references / Approvals

- CLEANROOM classification for IPA Class 1

Product features

- Low-adhesive surface
- No dust emission

Product Make-up

- Conductor : Extra-fine wire strand made of class 6 tinned copper or bare copper wires
- Core insulation : TPE compound
- Core insulation colour : Black
- Outer sheath : TPV compound
- Outer sheath colour : Black

Technical data



Conductor stranding

extra flexible tinned copper strands according to class 6 up to 0.34 mm² and extra flexible bare copper strands for cross section over 0.34mm²



Minimum bending radius

For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter



Rated voltage

300/500 V



Test voltage

1500 V



Temperature range

Flexing: -30°C up to +80 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8661 MC				
108021	2 X 0.14	3.6	3.0	14
108023	2 X 0.25	4.0	5.0	18
108025	2 X 0.34	4.2	7.0	20
108029	2 X 0.5	4.4	10.0	24
108031	2 X 0.75	5.0	14.0	32
108033	3 X 0.14	3.7	4.0	16
108035	3 X 0.25	4.2	7.0	21
108037	3 X 0.34	4.4	10.0	25
108039	3 G 0.5	4.6	14.0	30
108041	3 G 0.75	5.3	22.0	41
108048	4 X 0.14	4.0	5.0	18
108050	4 X 0.25	4.4	10.0	25
108052	4 X 0.34	4.7	13.0	30
108054	4 G 0.5	4.9	19.0	37
108056	4 G 0.75	5.7	29.0	50
108058	4 G 1.0	6.4	38.0	66
108060	4 G 1.5	7.3	58.0	91
108062	5 X 0.14	4.2	7.0	21
108064	5 X 0.25	4.8	12.0	29
108066	5 X 0.34	5.0	16.0	35
108068	5 G 0.75	5.3	24.0	44
108070	5 G 1.0	6.3	36.0	63
108072	5 G 1.0	6.9	48.0	80

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
108074	5 G 1.5	8.0	72.0	110
108076	6 X 0.14	4.6	8.0	24
108078	6 X 0.25	5.2	14.0	34
108080	6 X 0.34	5.5	20.0	41
108082	6 G 0.5	5.8	29.0	52
108084	6 G 0.75	7.0	43.0	74
108086	7 X 0.14	4.8	9.0	27
108088	7 X 0.25	5.5	17.0	38
108090	7 X 0.34	5.8	23.0	46
108092	7 G 0.5	6.4	34.0	61
108094	7 G 0.75	7.4	50.0	83
108096	7 G 1.0	8.0	67.0	107
108198	7 G 1.5	9.6	101.0	152
108100	10 X 0.14	5.4	13.0	34
108102	10 X 0.25	6.4	33.0	52
108104	10 X 0.34	6.8	48.0	63
108106	10 G 0.5	7.2	48.0	81
108108	10 G 0.75	8.6	72.0	115
108112	12 X 0.14	5.5	16.0	38
108114	12 X 0.25	6.5	29.0	59
108116	12 X 0.34	6.9	39.0	72
108118	12 G 0.5	7.4	58.0	92
108120	12 G 0.75	8.8	86.0	132

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ÖLFLEX® CLEANROOM FD 8661 TP



Info

- Low voltage power and control cable for CLEANROOM
- Improved characteristic in the moving performance



Benefits

- High performance moving solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- High mechanical stress in CLEANROOM conditions

Norm references / Approvals

- CLEANROOM classification for IPA Class 1

Product features

- Low-adhesive surface
- No dust emission

Product Make-up

- Conductor : Extra-fine wire strand made of class 6 tinned copper or bare copper wires
- Core insulation : TPE compound
- Core insulation colour : Black
- Twist Pair structure
- Outer sheath : TPV compound
- Outer sheath colour : Black

Technical data



Conductor stranding

extra flexible tinned copper strands according to class 6 up to 0.34 mm² and extra flexible bare copper strands for cross section over 0.34mm²



Minimum bending radius

For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter



Rated voltage

300/500 V



Test voltage

1500 V



Temperature range

Flexing: -30°C up to +80 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8661 TP				
108122	2 P 0.14	4.7	5.0	22
108124	3 P 0.14	5.0	8.0	26
108126	4 P 0.14	5.3	11.0	31
108128	5 P 0.14	5.7	13.0	35
108130	8 P 0.14	7.2	22.0	53
108132	2 P 0.25	5.4	10.0	29
108134	3 P 0.25	5.7	14.0	36
108136	4 P 0.25	6.3	19.0	46
108138	5 P 0.25	6.8	24.0	54
108140	8 P 0.25	8.6	38.0	82
108142	2 P 0.34	5.7	13.0	34
108144	3 P 0.34	6.2	20.0	45
108146	4 P 0.34	6.7	26.0	55
108148	5 P 0.34	7.3	33.0	65
108150	8 P 0.34	9.2	52.0	100
108152	2 P 0.5	6.2	19.0	44
108154	3 P 0.5	6.6	29.0	56
108156	4 P 0.5	7.1	38.0	70
108158	5 P 0.5	7.7	48.0	83
108160	8 P 0.5	9.8	77.0	127
108162	2 P 0.75	7.2	29.0	59
108164	3 P 0.75	7.6	43.0	77
108166	2 P 1.0	7.9	38.0	73
108168	3 P 1.0	8.5	58.0	100
108170	2 P 1.5	9.4	58.0	103
108172	3 P 1.5	9.9	86.0	138

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ÖLFLEX® CLEANROOM FD 8661 MC D

LAPP KABEL STUTTGART ÖLFLEX® CLEANROOM FD 8661 MC D



Info

- Low voltage power and control cable for CLEANROOM
- Improved characteristic in the moving performance
- Spiral copper shield

Benefits

- High performance moving solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter
- Copper shielding protects against electromagnetic interference

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- High mechanical stress in CLEANROOM conditions

Product features

- Low-adhesive surface
- No dust emission

Product Make-up

- Conductor : Extra-fine wire strand made of class 6 tinned copper or bare copper wires
- Core insulation : TPE compound
- Core insulation colour : Black
- Wapping of Teflon tape
- Spiral shield made of tinned copper wires
- Outer sheath : TPV compound
- Outer sheath colour : Black

Technical data



Conductor stranding

extra flexible tinned copper strands according to class 6 up to 0.34 mm² and extra flexible bare copper strands for cross section over 0.34mm²



Minimum bending radius

For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter



Rated voltage

300/500 V



Test voltage

1500 V



Temperature range

Flexing: -30°C up to +80 °C

Norm references / Approvals

- CLEANROOM classification for IPA Class 1

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8661 MC D				
108418	2 X 0.14	4.2	8.0	23
108420	2 X 0.25	4.6	11.0	28
108422	2 X 0.34	4.8	14.0	30
108424	2 X 0.5	5.0	17.0	36
108426	2 X 0.75	5.6	20.0	45
108428	3 X 0.14	4.3	23.0	26
108430	3 X 0.25	4.8	26.0	33
108432	3 X 0.34	5.0	29.0	35
108434	3 G 0.5	5.2	32.0	43
108436	3 G 0.75	5.9	35.0	55
108438	4 X 0.14	4.6	38.0	29
108440	4 X 0.25	5.0	41.0	38
108442	4 X 0.34	5.3	44.0	41
108444	4 G 0.5	5.5	47.0	51
108458	4 G 0.75	6.5	50.0	66
108460	4 G 1.0	7.0	53.0	80
108462	4 G 1.5	8.0	56.0	114
108464	5 X 0.14	4.8	59.0	32
108466	5 X 0.25	5.4	62.0	43
108468	5 X 0.34	5.6	65.0	47
108470	5 G 0.5	5.9	68.0	60
108472	5 G 0.75	6.9	71.0	78
108474	5 G 1.0	7.5	74.0	95

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
108476	5 G 1.5	8.8	77.0	136
108482	6 X 0.14	5.1	80.0	36
108484	6 X 0.25	5.7	83.0	49
108487	6 X 0.34	6.0	86.0	53
108489	6 G 0.5	6.5	89.0	68
108491	6 G 0.75	7.4	92.0	90
108493	7 X 0.14	5.3	95.0	40
108495	7 X 0.25	5.9	98.0	54
108497	7 X 0.34	6.5	101.0	60
108500	7 G 0.5	6.8	104.0	77
108502	7 G 0.75	7.9	107.0	106
108504	7 G 1.0	8.7	110.0	131
108507	7 G 1.5	10.1	113.0	182
108509	10 X 0.14	5.8	116.0	52
108511	10 X 0.25	6.8	119.0	73
108513	10 X 0.34	7.2	122.0	81
108515	10 G 0.5	7.6	125.0	110
108518	10 G 0.75	9.1	128.0	147
108520	12 X 0.14	5.9	131.0	61
108522	12 X 0.25	7.0	134.0	86
108524	12 X 0.34	7.4	137.0	95
108526	12 G 0.5	7.9	140.0	131
108528	12 G 0.75	9.3	143.0	176

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ÖLFLEX® CLEANROOM FD 8661 TP D

Info

- Low voltage power and control cable for CLEANROOM
- Improved characteristic in the moving performance



Benefits

- High performance moving solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- High mechanical stress in CLEANROOM conditions

Norm references / Approvals

- CLEANROOM classification for IPA Class 1

Product features

- Low-adhesive surface
- No dust emission

Product Make-up

- Conductor : Extra-fine wire strand made of class 6 tinned copper or bare copper wires
- Core insulation : TPE compound
- Core insulation colour : Black
- Twist Pair structure
- Wapping of Teflon tape
- Spiral shield made of tinned copper wires
- Outer sheath : TPV compound
- Outer sheath colour : Black

Technical data

- Conductor stranding**
extra flexible tinned copper strands according to class 6 up to 0.34 mm² and extra flexible bare copper strands for cross section over 0.34mm²
- Minimum bending radius**
For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter
- Rated voltage**
300/500 V
- Test voltage**
1500 V
- Temperature range**
Flexing: -30°C up to +80 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8661 TP D				
108299	2 P 0.14	5.2	15.0	38
108663	3 P 0.14	5.4	18.0	44
108301	4 P 0.14	5.8	22.0	50
108743	5 P 0.14	6.4	26.0	57
108303	8 P 0.14	7.6	42.0	84
108667	2 P 0.25	5.8	22.0	49
108669	3 P 0.25	6.3	28.0	58
108671	4 P 0.25	6.8	34.0	68
108673	5 P 0.25	7.3	45.0	83
108675	8 P 0.25	9.1	66.0	118
108305	2 P 0.34	6.4	25.0	53
108677	3 P 0.34	6.7	32.0	63
108307	4 P 0.34	7.2	40.0	74
108679	5 P 0.34	7.8	53.0	91
108309	8 P 0.34	9.7	79.0	131
108681	2 P 0.5	6.7	37.0	70
108683	3 P 0.5	7.0	48.0	84
108685	4 P 0.5	7.6	59.0	101
108687	5 P 0.5	8.4	71.0	118
108689	8 P 0.5	10.3	118.0	187
108311	2 P 0.75	7.7	50.0	89
108691	3 P 0.75	8.1	65.0	109
108693	2 P 1.0	8.6	63.0	106
108695	3 P 1.0	9.0	84.0	132
108697	2 P 1.5	9.9	98.0	156
108699	3 P 1.5	10.4	131.0	195

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ÖLFLEX® CLEANROOM FD 8661 MC FR



Info

- Low voltage power and control cable for CLEANROOM
- Improved characteristic in the moving performance

Benefits

- High performance moving solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- High mechanical stress in CLEANROOM conditions

Product features

- Low-adhesive surface
- No dust emission
- IEC 60332-1-2 flame retardant

Product Make-up

- Conductor : Extra-fine wire strand made of class 6 tinned copper or bare copper wires
- Core insulation : TPE compound
- Core insulation colour : Black
- Outer sheath : TPV compound
- Outer sheath colour : Black

Technical data



Conductor stranding

extra flexible tinned copper strands according to class 6 up to 0.34 mm² and extra flexible bare copper strands for cross section over 0.34mm²



Minimum bending radius

For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter



Rated voltage

300/500 V



Test voltage

1500 V



Temperature range

Flexing: -30°C up to +80 °C

Norm references / Approvals

- CLEANROOM classification for IPA Class 2

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8661 MC FR				
108022	2 X 0.14	3.6	3.0	16
108024	2 X 0.25	4.0	5.0	21
108026	2 X 0.34	4.2	7.0	24
108030	2 X 0.5	4.4	10.0	28
108032	2 X 0.75	5.0	14.0	36
108034	3 X 0.14	3.7	4.0	19
108036	3 X 0.25	4.2	7.0	25
108038	3 X 0.34	4.4	10.0	29
108040	3 G 0.5	4.6	14.0	34
108042	3 G 0.75	5.3	22.0	46
108049	4 X 0.14	4.0	5.0	22
108051	4 X 0.25	4.4	10.0	29
108053	4 X 0.34	4.7	13.0	34
108055	4 G 0.5	4.9	19.0	42
108057	4 G 0.75	5.7	29.0	56
108059	4 G 1.0	6.4	38.0	73
108061	4 G 1.5	7.3	58.0	99
108063	5 X 0.14	4.2	7.0	25
108065	5 X 0.25	4.8	12.0	34
108067	5 X 0.34	5.0	16.0	40
108069	5 G 0.5	5.3	24.0	49
108071	5 G 0.75	6.3	36.0	69
108073	5 G 1.0	6.9	48.0	87

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
108075	5 G 1.5	8.0	72.0	118
108077	6 X 0.14	4.6	8.0	28
108079	6 X 0.25	5.2	14.0	39
108081	6 X 0.34	5.5	20.0	46
108083	6 G 0.5	5.8	29.0	57
108085	6 G 0.75	7.0	43.0	81
108087	7 X 0.14	4.8	9.0	31
108089	7 X 0.25	5.5	17.0	43
108091	7 X 0.34	5.8	23.0	52
108093	7 G 0.5	6.4	34.0	67
108095	7 G 0.75	7.4	50.0	91
108097	7 G 1.0	8.0	67.0	116
108099	7 G 1.5	9.6	101.0	164
108101	10 X 0.14	5.4	13.0	39
108103	10 X 0.25	6.4	33.0	59
108105	10 X 0.34	6.8	48.0	70
108107	10 G 0.5	7.2	48.0	88
108109	10 G 0.75	8.6	72.0	125
108113	12 X 0.14	5.5	16.0	43
108115	12 X 0.25	6.5	29.0	65
108117	12 X 0.34	6.9	39.0	79
108119	12 G 0.5	7.4	58.0	100
108121	12 G 0.75	8.8	86.0	143

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ÖLFLEX® CLEANROOM FD 8661 TP FR



Info

- Low voltage power and control cable for CLEANROOM
- Improved characteristic in the moving performance



Benefits

- High performance moving solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- High mechanical stress in CLEANROOM conditions

Norm references / Approvals

- CLEANROOM classification for IPA Class 2

Product features

- Low-adhesive surface
- No dust emission
- IEC 60332-1-2 flame retardant

Product Make-up

- Conductor : Extra-fine wire strand made of class 6 tinned copper or bare copper wires
- Core insulation : TPE compound
- Core insulation colour : Black
- Twist Pair structure
- Outer sheath : TPV compound
- Outer sheath colour : Black

Technical data



Conductor stranding

extra flexible tinned copper strands according to class 6 up to 0.34 mm² and extra flexible bare copper strands for cross section over 0.34mm²



Minimum bending radius

For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter



Rated voltage

300/500 V



Test voltage

1500 V



Temperature range

Flexing: -30°C up to +80 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8661 TP FR				
108123	2 P 0.14	4.7	5.0	26
108125	3 P 0.14	5.0	8.0	30
108127	4 P 0.14	5.3	11.0	35
108129	5 P 0.14	5.7	13.0	41
108131	8 P 0.14	7.2	22.0	61
108133	2 P 0.25	5.4	10.0	34
108135	3 P 0.25	5.7	14.0	41
108137	4 P 0.25	6.3	19.0	53
108139	5 P 0.25	6.8	24.0	61
108141	8 P 0.25	8.6	38.0	92
108143	2 P 0.34	5.7	13.0	40
108145	3 P 0.34	6.2	20.0	52
108147	4 P 0.34	6.7	26.0	62
108149	5 P 0.34	7.3	33.0	73
108151	8 P 0.34	9.2	52.0	111
108153	2 P 0.5	6.2	19.0	51
108155	3 P 0.5	6.6	29.0	63
108157	4 P 0.5	7.1	38.0	77
108159	5 P 0.5	7.7	48.0	91
108161	8 P 0.5	9.8	77.0	139
108163	2 P 0.75	7.2	29.0	66
108165	3 P 0.75	7.6	43.0	85
108167	2 P 1.0	7.9	38.0	82
108169	3 P 1.0	8.5	58.0	110
108171	2 P 1.5	9.4	58.0	114
108173	3 P 1.5	9.9	86.0	150

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ÖLFLEX® CLEANROOM FD 8661 MC D FR



Info

- Low voltage power and control cable for CLEANROOM
- Improved characteristic in the moving performance
- Spiral copper shield

Benefits

- High performance moving solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter
- Copper shielding protects against electromagnetic interference

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- High mechanical stress in CLEANROOM conditions

Product features

- Low-adhesive surface
- No dust emission
- IEC 60332-1-2 flame retardant

Product Make-up

- Conductor : Extra-fine wire strand made of class 6 tinned copper or bare copper wires
- Core insulation : TPE compound
- Core insulation colour : Black
- Wapping of Teflon tape
- Spiral shield made of tinned copper wires
- Outer sheath : TPV compound
- Outer sheath colour : Black

Technical data



Conductor stranding

extra flexible tinned copper strands according to class 6 up to 0.34 mm² and extra flexible bare copper strands for cross section over 0.34mm²



Minimum bending radius

For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter



Rated voltage

300/500 V



Test voltage

1500 V



Temperature range

Flexing: -30°C up to +80 °C

Norm references / Approvals

- CLEANROOM classification for IPA Class 2

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8661 MC D FR				
108419	2 X 0.14	4.2	8.0	27
108421	2 X 0.25	4.6	11.0	33
108423	2 X 0.34	4.8	13.0	34
108425	2 X 0.5	5.0	17.0	42
108427	2 X 0.75	5.6	23.0	51
108429	3 X 0.14	4.3	10.0	30
108431	3 X 0.25	4.8	14.0	37
108433	3 X 0.34	5.0	16.0	39
108435	3 G 0.5	5.2	22.0	49
108437	3 G 0.75	5.9	30.0	61
108439	4 X 0.14	4.6	11.0	33
108441	4 X 0.25	5.0	17.0	42
108443	4 X 0.34	5.3	20.0	45
108445	4 G 0.5	5.5	27.0	57
108459	4 G 0.75	6.5	38.0	72
108461	4 G 1.0	7.0	49.0	87
108463	4 G 1.5	8.0	75.0	121
108465	5 X 0.14	4.8	13.0	37
108467	5 X 0.25	5.4	17.0	48
108469	5 X 0.34	5.6	24.0	52
108471	5 G 0.5	5.9	33.0	66
108473	5 G 0.75	6.9	46.0	84
108475	5 G 1.0	7.5	60.0	103

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
108477	5 G 1.5	8.8	91.0	144
108483	6 X 0.14	5.1	15.0	41
108485	6 X 0.25	5.7	24.0	54
108488	6 X 0.34	6.0	28.0	52
108490	6 G 0.5	6.5	38.0	75
108492	6 G 0.75	7.4	54.0	97
108494	7 X 0.14	5.3	17.0	45
108496	7 X 0.25	5.9	27.0	60
108498	7 X 0.34	6.5	28.0	66
108501	7 G 0.5	6.8	44.0	84
108503	7 G 0.75	7.9	66.0	114
108505	7 G 1.0	8.7	86.0	140
108508	7 G 1.5	10.1	124.0	193
108510	10 X 0.14	5.8	23.0	58
108512	10 X 0.25	6.8	37.0	80
108514	10 X 0.34	7.2	44.0	88
108516	10 G 0.5	7.6	65.0	118
108519	10 G 0.75	9.1	92.0	157
108521	12 X 0.14	5.9	27.0	67
108523	12 X 0.25	7.0	43.0	94
108525	12 X 0.34	7.4	53.0	103
108527	12 G 0.5	7.9	77.0	140
108529	12 G 0.75	9.3	109.0	187

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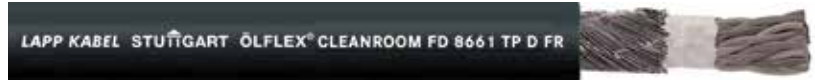


ÖLFLEX® CLEANROOM FD 8661 TP D FR



Info

- Low voltage power and control cable for CLEANROOM
- Improved characteristic in the moving performance



Benefits

- High performance moving solution
- Zero particle emission at moved chain application
- Easy installation due to small cable diameter

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- High mechanical stress in CLEANROOM conditions

Norm references / Approvals

- CLEANROOM classification for IPA Class 2

Product features

- Low-adhesive surface
- No dust emission
- IEC 60332-1-2 flame retardant

Product Make-up

- Conductor : Extra-fine wire strand made of class 6 tinned copper or bare copper wires
- Core insulation : TPE compound
- Core insulation colour : Black
- Twist Pair structure
- Wapping of Teflon tape
- Outer sheath : TPV compound
- Outer sheath colour : Black

Technical data



Conductor stranding

extra flexible tinned copper strands according to class 6 up to 0.34 mm² and extra flexible bare copper strands for cross section over 0.34mm²



Minimum bending radius

For flexible use: 7.5 x outer diameter
Fixed installation: 4 x cable diameter



Rated voltage

300/500 V



Test voltage

1500 V



Temperature range

Flexing: -30°C up to +80 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLEANROOM FD 8661 TP D FR				
108300	2 P 0.14	5.2	15.0	44
108664	3 P 0.14	5.4	18.0	50
108302	4 P 0.14	5.8	22.0	57
108666	5 P 0.14	6.4	26.0	64
108304	8 P 0.14	7.6	42.0	93
108668	2 P 0.25	5.8	22.0	56
108670	3 P 0.25	6.3	28.0	65
108672	4 P 0.25	6.8	34.0	76
108674	5 P 0.25	7.3	45.0	91
108676	8 P 0.25	9.1	66.0	129
108306	2 P 0.34	6.4	25.0	59
108678	3 P 0.34	6.7	32.0	70
108308	4 P 0.34	7.2	40.0	82
108680	5 P 0.34	7.8	53.0	100
108310	8 P 0.34	9.7	79.0	141
108682	2 P 0.5	6.7	37.0	78
108684	3 P 0.5	7.0	48.0	93
108686	4 P 0.5	7.6	59.0	110
108688	5 P 0.5	8.4	71.0	128
108690	8 P 0.5	10.3	118.0	201
108312	2 P 0.75	7.7	50.0	98
108692	3 P 0.75	8.1	65.0	119
108694	2 P 1.0	8.6	63.0	116
108696	3 P 1.0	9.0	84.0	143
108698	2 P 1.5	9.9	98.0	168
108700	3 P 1.5	10.4	131.0	209

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ÖLFLEX® SOLAR AL FLEX

LAPP KABEL STUTTGART ÖLFLEX® SOLAR AL FLEX DC 1500 V 1 X 10 SQ MM <CU 1 X 6 SQ MM>



Info

- Fine-wired aluminum conductor according to ISO 6722, IEC 60228 Class 5.
- Lightweight and economical solar cable.

Benefits

- Less expensive alternative compared to copper conductor
- Easy installation due to light weight aluminum conductor
- Flexible aluminum conductors (class 5 grade) for high workability.
- Insulation and sheath compounds meeting EN 50618 standard. High durability due to high insulation resistance and thermal stability.

Application range

- For cabling between solar modules and as extension cable between module strings
- Gable and flat roof photovoltaic systems
- Photovoltaic plants and solar parks

Product features

- Weathering/UV-resistance according to HD 605/A1. Ozone resistance according to EN 50396

- Flame retardant according to IEC 60332-1-2
- Halogen free according to EN 50267-2-1/-2 & EN 60684-2
- Acid and alkaline resistance according to EN 60811-2-1
- Low smoke density according to EN 61034-2

Norm references / Approvals

- Cable design according to EN 50618
- Conductor design according to ISO 6722-2-B & IEC 60228

Product Make-up

- Conductor: Fine-wire strands of aluminum
- Core insulation: Electron beam cross-linked Polyolefin (XLPO)
- Core colour: White
- Outer sheath : Electron beam cross-linked Polyolefin (XLPO)
- Outer sheath colour: Black & Black with red or blue stripe

Technical data



Conductor stranding

Fine-wire strands of aluminum
Conductor design acc. to ISO 6722-2-B
Resistance acc. to IEC 60228 Cl.5



Minimum bending radius

Fixed installation: 5 x cable diameter



Nominal voltage

DC 1500 V



Temperature range

Fixed installation: -40 °C up to +120 °C
max. conductor temperature

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SOLAR AL FLEX				
Core insulation: white / Outer sheath: black				
85120100	1 X 4	5.6	12.0	39
85120101	1 X 6	6.2	18.0	49
85120102	1 X 10	7.2	29.0	67
Core insulation: white / Outer sheath: black with red stripe				
85120103	1 X 4	5.6	12.0	39
85120104	1 X 6	6.2	18.0	49
85120105	1 X 10	7.2	29.0	67
Core insulation: white / Outer sheath: black with blue stripe				
85120106	1 X 4	5.6	12.0	39
85120107	1 X 6	6.2	18.0	49
85120108	1 X 10	7.2	29.0	67

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LAPP KABEL 0.6 / 1KV TFR-CV / AL



Info

- Lightweight and economical power cable with aluminum conductor to meet IEC 60502-1 specifications

Benefits

- Less expensive alternative compared to copper conductor
- Easy installation due to light weight aluminum conductor

Application range

- Power cable with excellent flame retardance

Product features

- Flame retardant acc. to IEC 60332-3-24
- Voltage test acc. to IEC 60502-1 (3.5kV/5mins)

Norm references / Approvals

- KC certified according to IEC 60502-1

Product Make-up

- Conductor: Aluminum stranded conductor (Class 2)
- Core insulation: Cross-Linked Polyethylene (XLPE)
- Core insulation colour: Natural color
- Outer sheath : Flame retardant PVC
- Outer sheath colour: Black

Technical data



Conductor stranding

Aluminum conductor acc. to IEC 60228 Class 2



Minimum bending radius

Fixed installation: 10 x outer diameter



Nominal voltage

AC U_0/U : 0.6/1 kV



Temperature range

Fixed installation: up to +90 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
LAPP KABEL 0.6/1KV TFR-CV/AL				
Core insulation: natural / Outer sheath: black				
85120400	1 X 16	9.2	43.3	106
85120401	1 X 25	10.5	68.6	148
85120402	1 X 35	11.5	95.2	184
85120403	1 X 50	12.9	132.5	236
85120404	1 X 70	14.8	183.7	314
85120405	1 X 95	16.6	254.3	411
85120406	1 X 120	18.3	320.0	504
85120407	1 X 150	20.4	397.3	620
85120408	1 X 185	22.3	499.5	755
85120409	1 X 240	25.1	650.9	972
85120410	1 X 300	27.7	816.7	1,196
85120411	1 X 400	31.0	1060.8	1,506
85120412	1 X 500	34.8	1341.0	1,902
85120413	1 X 630	39.4	1734.3	2,465

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Power and control cables

Renewable Energy Applications



SOLAR AL FLEX WP



Benefits

- Maintain high volume resistance for heat and moisture exposed environments
- Applied to aluminum conductor, which is less expensive than copper conductor
- Easy installation due to light weight aluminum conductor than copper conductor
- Flexible aluminum conductors (class 5 grade) for high workability
- Use of insulation & sheath compound meeting EN50618, the new TuV certification standard
- High durability due to high insulation resistance and thermal stability

Application range

- For installation in conduits, in which heat and moisture can accumulate
- For the cabling between the solar modules and as extension cable between the module strings
- Gable and flat roof photovoltaic systems
- Photovoltaic plants and solar parks

Product features

- Flame retardant according to IEC 60332-1-2
- Halogen free according to EN 50267-2-1/-2 & EN 60684-2

- Ozone resistance according to EN 50396
- Weathering/UV-resistance according to HD 605/A1
- Long term resistance of insulation to d.c according to EN 50395
- Low smoke density according to EN 61034-2

Norm references / Approvals

- Cable design according to EN 50618
- Conductor design according to ISO6722-2-B & IEC60228

Product Make-up

- Conductor: Fine wire strands of Aluminum conductor
- Core insulation: Electron beam cross-linked Polyolefin (XLPO)
- Core insulation colour: White
- Outer sheath : Electron beam crosslinked Polyolefin (XLPO)
- Outer sheath colour: Black



Info

- Optimised cable design for constant high volume resistance
- Fine wired Aluminum conductor According to ISO6722, IEC60228 Cl.5
- Lightweight and economical solar cable

Technical data



Conductor stranding

Fine wire strands of Aluminum conductor (Design acc.to ISO6722-2-B, resistance acc.to IEC60228 Cl.5)



Minimum bending radius

Fixed installation: 5 x cable diameter



Rated voltage

DC1500 V



Test voltage

AC 6500 V



Range of temperature

Fixed installation:
-40° C up to +120 °C
max. conductor temperature

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
SOLAR AL FLEX WP				
Core insulation: white / Outer sheath: black				
85120200	1 X 4	6.0	12.0	41
85120201	1 X 6	6.6	18.0	52
85120202	1 X 10	7.6	29.0	69
Core insulation: white / Outer sheath: black with red stripe				
85120203	1 X 4	6.0	12.0	41
85120204	1 X 6	6.6	18.0	52
85120205	1 X 10	7.6	29.0	69
Core insulation: white / Outer sheath: black with blue stripe				
85120206	1 X 4	6.0	12.0	41
85120207	1 X 6	6.6	18.0	52
85120208	1 X 10	7.6	29.0	69

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ÖLFLEX® SOLAR XLR-E

Cross-linked solar cables - type H1Z2Z2-K certified according to EN 50618

Info

- H1Z2Z2-K (code designation according to EN 50618)
- Substitutes previous ÖLFLEX® SOLAR XLR-R



Benefits

- Robust against mechanical impacts
- For outdoor applications
- Extruded colour stripe serves as reverse polarity protection during installation.
- Exact quantity control during installation by meter marking on the cable sheath
- Reduction of flame propagation and of toxic combustion gases in the event of fire

Application range

- For use in photovoltaic-systems with rated voltage 1500 V DC
- For the cabling between the solar modules and as extension cable between the module strings and the DC/AC inverter
- Gable and flat roof photovoltaic systems
- Photovoltaic plants and solar parks
- Not suitable for direct burial, Installation according to IEC 60364-5-52, respectively HD 60364-5-52

Product features

- Halogen-free and flame-retardant
- Weather/UV-resistant acc. to EN 50618, appendix E
- Ozone-resistant according to EN 50396
- XLR-E = X-Linked Radiated-EN Standard Proven electron beam cross-linked quality

Norm references / Approvals

- H1Z2Z2-K (code designation according to EN 50618)
- Items with other cross-sections on request

Product Make-up

- Fine-wire, tinned-copper conductor
- Core insulation made of electron beam cross-linked copolymer
- Colour of core insulation: white
- Outer sheath made of electron beam cross-linked copolymer
- Outer sheath colour: black

Technical data

	Classification ETIM 5.0 Class-ID: EC001578 ETIM 5.0 Class-Description: Flexible cable
	Conductor stranding Fine wire according to VDE 0295, class 5/IEC 60228 class 5
	Minimum bending radius Fixed installation: 4 x outer diameter
	Nominal voltage AC U_0/U : 1,0/1,0 kV DC U_0/U : 1,5/1,5 kV Max. permissible operating voltage: DC 1,8 kV
	Test voltage AC 6500 V
	Current rating Im compliance with EN 50618, Table A.3
	Temperature range -40°C to +120°C max. conductor temperature based on EN 60216-1 Ambient temperature range according to EN 50618: -40°C to +90°C

Article number	Conductor cross-section (mm²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SOLAR XLR-E				
Core insulation: white / Outer sheath: black				
1023652	4.0	5.4	38.4	66
1023653	6.0	6.0	57.6	89
1023654	10.0	7.2	96.0	136
1023655	16.0	8.4	153.6	207
Core insulation: white / Outer sheath: black with red stripe				
1023667	4.0	5.4	38.4	66
1023668	6.0	6.0	57.6	89
1023669	10.0	7.2	96.0	136
1023670	16.0	8.4	153.6	207

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Power and control cables

Control Cabinet Applications



ÖLFLEX® UNIPLUS HFFR Z

ISI Marked Halogen free flame retardant single core for control cabinet or panel wiring



i Info

- Standard lengths available in 100m, 500m

Benefits

- ISI Marked
- Protection of human life and the environment, thanks to the avoidance of the formation of acid and smoke in case of fire

Product features

- High conductivity
- Halogen free
- Flammability - IEC 60332.1

Application range

- For wiring of lamps, devices, switch gear cabinets and distribution boxes
- For installation in tubes, on, in and under plaster as well as in closed installation ducts
- In application area with a high density of people or valuable assets for increased safety
- For use in dry rooms

Norm references / Approvals

- ISI marked and certified to IS 17048

Product Make-up

- Conductor: Flexible annealed bare copper
- Core installation: Zero Halogen compound

Technical data

- Conductor stranding**
Class V
According to IS 8130/ IEC 60228
- Minimum bending radius**
Occasional flexing - 8 x cable diameter
- Rated voltage**
1100 V
- Test voltage**
3000 V
- Current rating**
In acc. IS 3961 Part-5
- Temperature range**
Fixed installation: -5°C to +70°C

Conductor Cross-section (mm ²)	Standard length (m)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	green/yellow	black	blue	brown	red	white	grey
0.5	100	2.2	4.8	9	3822000011	3822001011	3822002011	3822003011	3822004011	3822005011	3822006011
0.75	100	2.4	7.2	12	3822000021	3822001021	3822002021	3822003021	3822004021	3822005021	3822006021
1.0	100	2.6	9.6	15	3822000031	3822001031	3822002031	3822003031	3822004031	3822005031	3822006031
1.5	100	2.9	14.4	20	3822000041	3822001041	3822002041	3822003041	3822004041	3822005041	3822006041
2.5	100	3.5	24.0	31	3822000051	3822001051	3822002051	3822003051	3822004051	3822005051	3822006051
4	100	4.3	38.4	48	3822000061	3822001061	3822002061	3822003061	3822004061	3822005061	3822006061
6	100	4.9	57.6	68	3822000071	3822001071	3822002071	3822003071	3822004071	3822005071	3822006071
10	100	6.2	96.0	115	3822000081	3822001081	3822002081	3822003081	3822004081	3822005081	3822006081
16	100	7.3	153.6	172	3822000091	3822001091	3822002091	3822003091	3822004091	3822005091	3822006091
25	100	8.9	240.0	264	3822000101	3822001101	3822002101	3822003101	3822004101	3822005101	3822006101
35	100	10.1	336.0	359	3822000111	3822001111	3822002111	3822003111	3822004111	3822005111	3822006111
50	100	12.0	480.0	513	3822000121	3822001121	3822002121	3822003121	3822004121	3822005121	3822006121
70	100	13.7	672.0	708	3822000131	3822001131	3822002131	3822003131	3822004131	3822005131	3822006131
95	100	15.8	912.0	935	3822000141	3822001141	3822002141	3822003141	3822004141	3822005141	3822006141
120	100	17.4	1,152.0	1,177	3822000151	3822001151	3822002151	3822003151	3822004151	3822005151	3822006151
150	100	19.5	1,440.0	1,470	3822000161	3822001161	3822002161	3822003161	3822004161	3822005161	3822006161
185	100	21.6	1,776.0	1,791	3822000171	3822001171	3822002171	3822003171	3822004171	3822005171	3822006171
240	100	24.4	2,304.0	2,355	3822000181	3822001181	3822002181	3822003181	3822004181	3822005181	3822006181

Conductor Cross-section (mm ²)	Standard length (m)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	violet	pink	orange	yellow	green	dark blue
0.5	100	2.2	4.8	9	3822007011	3822008011	3822009011	3822011011	3822012011	3822014011
0.75	100	2.4	7.2	12	3822007021	3822008021	3822009021	3822011021	3822012021	3822014021
1.0	100	2.6	9.6	15	3822007031	3822008031	3822009031	3822011031	3822012031	3822014031
1.5	100	2.9	14.4	20	3822007041	3822008041	3822009041	3822011041	3822012041	3822014041
2.5	100	3.5	24.0	31	3822007051	3822008051	3822009051	3822011051	3822012051	3822014051
4	100	4.3	38.4	48	3822007061	3822008061	3822009061	3822011061	3822012061	3822014061
6	100	4.9	57.6	68	3822007071	3822008071	3822009071	3822011071	3822012071	3822014071
10	100	6.2	96.0	115	3822007081	3822008081	3822009081	3822011081	3822012081	3822014081
16	100	7.3	153.6	172	3822007091	3822008091	3822009091	3822011091	3822012091	3822014091
25	100	8.9	240.0	264	3822007101	3822008101	3822009101	3822011101	3822012101	3822014101
35	100	10.1	336.0	359	3822007111	3822008111	3822009111	3822011111	3822012111	3822014111
50	100	12.0	480.0	513	3822007121	3822008121	3822009121	3822011121	3822012121	3822014121
70	100	13.7	672.0	708	3822007131	3822008131	3822009131	3822011131	3822012131	3822014131
95	100	15.8	912.0	935	3822007141	3822008141	3822009141	3822011141	3822012141	3822014141
120	100	17.4	1,152.0	1,177	3822007151	3822008151	3822009151	3822011151	3822012151	3822014151
150	100	19.5	1,440.0	1,470	3822007161	3822008161	3822009161	3822011161	3822012161	3822014161
185	100	21.6	1,776.0	1,791	3822007171	3822008171	3822009171	3822011171	3822012171	3822014171
240	100	24.4	2,304.0	2,355	3822007181	3822008181	3822009181	3822011181	3822012181	3822014181

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ÖLFLEX® UNIPLUS FR

ISI Marked PVC insulated single core



Info

- ISI marked



Benefits

- IS compliant ISI Marked
- Time-saving assembly

Application range

- For wiring of lamps, devices, switch gear cabinets and distribution boxes
- For installation in tubes, as well as in closed installation ducts or protected installations
- For use in dry rooms

Product features

- Flame retardant (FR)- IEC 60332.1/IS 10810-53

Norm references / Approvals

- IS 694:2010

Product Make-up

- Stranded Annealed Bare copper
- PVC compound type D in acc. to IS 5831:1984

Technical data



Core identification code
Coloured



Conductor stranding
Fine wire stranded Class 5 in acc. to IS 8130-1984/IEC 60228



Minimum bending radius
6 X OD



Nominal voltage
Up to and including 1100 V in acc. to IS 694:2010



Temperature range
Up to +70°C for fixed installations

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® UNIPLUS FR					
4510001U	1 X 0.5	2.6	green-yellow	4.8	9
4510002U	1 X 0.75	2.8	green-yellow	7.2	12
4510003U	1 X 1.0	3.0	green-yellow	9.6	15
4520011U	1 X 1.5	3.4	black	14.4	20
4520031U	1 X 1.5	3.4	brown	14.4	20
4520021U	1 X 1.5	3.4	blue	14.4	20
4520141U	1 X 1.5	3.4	dark blue	14.4	20
4520121U	1 X 1.5	3.4	green	14.4	20
4520001U	1 X 1.5	3.4	green-yellow	14.4	20
4520061U	1 X 1.5	3.4	grey	14.4	20
4520091U	1 X 1.5	3.4	orange	14.4	20
4520081U	1 X 1.5	3.4	pink	14.4	20
4520041U	1 X 1.5	3.4	red	14.4	20
4520161U	1 X 1.5	3.4	ultra marine blue	14.4	20
4520071U	1 X 1.5	3.4	violet	14.4	20
4520051U	1 X 1.5	3.4	white	14.4	20
4520111U	1 X 1.5	3.4	yellow	14.4	20
4520012U	1 X 2.5	4.1	black	24.0	33
4520032U	1 X 2.5	4.1	brown	24.0	33
4520022U	1 X 2.5	4.1	blue	24.0	33
4520122U	1 X 2.5	4.1	green	24.0	33
4520002U	1 X 2.5	4.1	green-yellow	24.0	33
4520062U	1 X 2.5	4.1	grey	24.0	33
4520092U	1 X 2.5	4.1	orange	24.0	33
4520042U	1 X 2.5	4.1	red	24.0	33
4520112U	1 X 2.5	4.1	yellow	24.0	33
4520003U	1 X 4	4.8	green-yellow	38.4	49
4520004U	1 X 6	5.3	green-yellow	57.6	72
4520005U	1 X 10	7.0	green-yellow	96.0	120
4520006U	1 X 16	8.1	green-yellow	153.6	182
4521001U	1 X 25	10.2	green-yellow	240.0	283
4521002U	1 X 35	11.7	green-yellow	336.0	386
4521003U	1 X 50	13.9	green-yellow	480.0	550
4521004U	1 X 70	16.0	green-yellow	672.0	761
4521005U	1 X 95	18.2	green-yellow	912.0	1022
4521006U	1 X 120	20.2	green-yellow	1152.0	1271
4521007U	1 X 150	22.5	green-yellow	1440.0	1595
4521008U	1 X 185	24.9	green-yellow	1776.0	1968
4521009U	1 X 240	28.4	green-yellow	2304.0	2538
4522001U	1 X 300	31.0	green-yellow	2615.0	2887

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ÖLFLEX® UNIPLUS FR-LSH

ISI Marked PVC FR-LSH insulated single core



Info

- ISI marked with FRLSH properties

Benefits

- IS compliant ISI Marked
- Time-saving assembly
- Safe for human life and the environment thanks to the reduced smoke and halogen in case of fire
- Internal wiring of devices

- In application area with a high density of people or valuable assets

Product features

- Flame retardant (FR)- IEC 60332.1/IS 10810-53
- Low smoke and low halogen (LSH) : as per data sheet

Norm references / Approvals

- IS 694:2010

Product Make-up

- Stranded Annealed Bare copper
- PVC FR-LSH Type D in Acc. To IS 5831:1984

Technical data



Core identification code
Coloured



Conductor stranding
Fine wire stranded Class 5 in acc. to IS 8130-1984/IEC 60228



Minimum bending radius
6 X OD



Nominal voltage
Up to and including 1100 V in acc. to IS 694:2010



Temperature range
Up to +70°C for fixed installations

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® UNIPLUS FR-LSH					
4610011U	1 X 0.5	2.6	black	4.8	9
4610001U	1 X 0.5	2.6	green-yellow	4.8	9
4610002U	1 X 0.75	2.8	green-yellow	7.2	12
4610003U	1 X 1.0	3.0	green-yellow	9.6	15
4620011U	1 X 1.5	3.4	black	14.4	21
4620031U	1 X 1.5	3.4	brown	14.4	21
4620021U	1 X 1.5	3.4	blue	14.4	21
4620141U	1 X 1.5	3.4	dark blue	14.4	21
4620121U	1 X 1.5	3.4	green	14.4	21
4620001U	1 X 1.5	3.4	green-yellow	14.4	21
4620061U	1 X 1.5	3.4	grey	14.4	21
4620091U	1 X 1.5	3.4	orange	14.4	21
4620081U	1 X 1.5	3.4	pink	14.4	21
4620041U	1 X 1.5	3.4	red	14.4	21
4620161U	1 X 1.5	3.4	ultra marine blue	14.4	21
4620071U	1 X 1.5	3.4	violet	14.4	21
4620051U	1 X 1.5	3.4	white	14.4	21
4620111U	1 X 1.5	3.4	yellow	14.4	21
4620012U	1 X 2.5	4.1	black	24.0	34
4620032U	1 X 2.5	4.1	brown	24.0	34
4620022U	1 X 2.5	4.1	blue	24.0	34
4620122U	1 X 2.5	4.1	green	24.0	34
4620002U	1 X 2.5	4.1	green-yellow	24.0	34
4620062U	1 X 2.5	4.1	grey	24.0	34
4620092U	1 X 2.5	4.1	orange	24.0	34
4620042U	1 X 2.5	4.1	red	24.0	34
4620112U	1 X 2.5	4.1	yellow	24.0	34
4620003U	1 X 4	4.8	green-yellow	38.4	50
4620004U	1 X 6	5.3	green-yellow	57.6	74
4620005U	1 X 10	7.0	green-yellow	96.0	122
4620006U	1 X 16	8.1	greyNE	153.6	185
4621001U	1 X 25	10.2	green-yellow	240.0	288
4621002U	1 X 35	11.7	green-yellow	336.0	391
4621003U	1 X 50	13.9	green-yellow	480.0	557
4621004U	1 X 70	16.0	green-yellow	672.0	770
4621005U	1 X 95	18.2	green-yellow	912.0	1034
4621006U	1 X 120	20.2	green-yellow	1152.0	1283
4621007U	1 X 150	22.5	green-yellow	1440.0	1611
4621008U	1 X 185	24.9	green-yellow	1776.0	1989
4621009U	1 X 240	28.4	green-yellow	2304.0	2562

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ÖLFLEX® UNIPLUS TRI

TRI Rated Single core, British - BS 6231 type CK, USA - UL Recognised (AWM), Canada - CSA (TEW) Hookup wire

Info

- Multi-standard single core BS-6231, UL-CSA
- Conforms to BS for higher voltage range 1000V
- Higher maximum conductor temperature 1050 deg C according to UL

Benefits

- For use in the most important global markets
- Reduction in technical documentation
- Increase cost effectiveness of production process
- Time-saving assembly

Application range

- Factory wiring
- Field wiring
- Internal wiring of appliances
- Control cabinet wiring

Product features

- Flame retardant acc. to IEC 60332-1-2

- Flame retardant according to UL VW1 & CSA FT1
- Oil-resistant to 60°C

Norm references / Approvals

- CPR approved
- BS 6231 Type CK
- UL 758
- CSA 22.2 Type TEW

Product Make-up

- Annealed bare copper, Class V in acc. to IEC 60228
- Special PVC compound suitable for 105°C

Technical data

- Core identification code**
Coloured
- Conductor stranding**
Annealed bare copper, Class 5 in acc. to IEC 60228
- Minimum bending radius**
Occasional flexing: 8 x cable OD
Fixed installation: 6 x cable OD
- Nominal voltage**
BS: 1000V
UL (AWM): 600V
- Temperature range**
Occasional flexing: -15°C up to +105°C max. conductor temperature
Fixed installation: -30°C up to +105°C max. conductor temperature

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® UNIPLUS HFFR					
8201010100	1 X 0.5	2.6	black	4.8	12
8201010000	1 X 0.5	2.6	green-yellow	4.8	12
8201010001	1 X 0.75	2.8	green-yellow	7.2	15
8201010102	1 X 1.0	3.0	black	9.6	18
8201010302	1 X 1.0	3.0	brown	9.6	18
8201010202	1 X 1.0	3.0	blue	9.6	18
8201010402	1 X 1.0	3.0	red	9.6	18
8201010002	1 X 1.0	3.0	green-yellow	9.6	18
8201010103	1 X 1.5	3.2	black	14.4	22
8201010303	1 X 1.5	3.2	brown	14.4	22
8201010203	1 X 1.5	3.2	blue	14.4	22
8201011403	1 X 1.5	3.2	dark blue	14.4	22
8201011203	1 X 1.5	3.2	green	14.4	22
8201010603	1 X 1.5	3.2	grey	14.4	22
8201011503	1 X 1.5	3.2	light blue	14.4	22
8201010903	1 X 1.5	3.2	orange	14.4	22
8201010803	1 X 1.5	3.2	pink	14.4	22
8201010403	1 X 1.5	3.2	red	14.4	22
8201010703	1 X 1.5	3.2	violet	14.4	22
8201010503	1 X 1.5	3.2	white	14.4	22
8201011103	1 X 1.5	3.2	yellow	14.4	22
8201010003	1 X 1.5	3.2	green-yellow	14.4	22
8201010104	1 X 2.5	3.7	black	24.0	33
8201010304	1 X 2.5	3.7	brown	24.0	33
8201010204	1 X 2.5	3.7	blue	24.0	33
8201010404	1 X 2.5	3.7	red	24.0	33
8201010004	1 X 2.5	3.7	green-yellow	24.0	33
8201010005	1 X 4	4.2	green-yellow	38.4	47
8201010006	1 X 6	5.1	green-yellow	57.6	70
8201010007	1 X 10	6.5	green-yellow	96.0	117
8201010008	1 X 16	7.5	green-yellow	154.0	172
8201010009	1 X 25	9.1	green-yellow	240.0	261
8201010010	1 X 35	10.2	green-yellow	336.0	353
8201010011	1 X 50	12.5	green-yellow	480.0	514
8201010012	1 X 70	14.2	green-yellow	672.0	705
8201010013	1 X 95	16.1	green-yellow	912.0	923
8201010014	1 X 120	17.7	green-yellow	1152.0	1156
8201010015	1 X 150	19.6	green-yellow	1440.0	1433
8201010016	1 X 185	21.6	green-yellow	1776.0	1742
8201010017	1 X 240	24.3	green-yellow	2304.0	2273

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For current information see: <http://e.lapp.com/ap/>

Power and control cables

Control Cabinet Applications



H05V-K <VDE>

<VDE> cable type certification



Info

- VDE approved

Benefits

- Cables' <VDE> marking is a testing mark / proof of the successful testing according to VDE / EN / HD / IEC standards as well as possible health and safety regulations. <VDE> is issued by the VDE testing and certification institute.

Application range

- Internal wiring of devices
- Protected installation in and on lighting equipments
- Signal systems in and on plaster in tubes

Product features

- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- <VDE> cable type certification acc. EN 50525-2-31

Product Make-up

- Fine-wired copper conductor of bare copper strands in line with conductor class 5 acc. IEC 60228
- Core insulation: Based on PVC

Technical data

Classification ETIM 5/6
 ETIM 5.0/6.0 Class-ID: EC000993
 ETIM 5.0/6.0 Class-Description: Single core cable

Conductor stranding
 Fine wire according to VDE 0295 Class 5 / IEC 60228 Class 5

Minimum bending radius
 6 x cable diameter

Nominal voltage
 U₀/U: 300/500 V

Test voltage
 2000 V

Temperature range
 Fixed installation: -30°C to +70°C

Conductor Cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	green/yellow	black	blue	brown	red
0.5	2.2	4.8	9	8110001	8110011	8110021	8110031	8110041
0.75	2.3	7.2	12	8110002	8110012	8110022	8110032	8110042
1.0	2.5	9.6	14	8110003	8110013	8110023	8110033	8110043

Conductor Cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	white	grey	orange	yellow	green
0.5	2.2	4.8	9	8110051	8110061	8110091	8110111	8110121
0.75	2.3	7.2	12	8110052	8110062	8110092	8110112	8110122
1.0	2.5	9.6	14	8110053	8110063	8110093	8110113	8110123

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H07V-K <VDE>

<VDE> cable type certification

Info

- VDE approved



Benefits

- Cables' <VDE> marking is a testing mark / proof of the successful testing according to VDE/ EN/ HD/ IEC standards as well as possible health and safety regulations. <VDE> is issued by the VDE testing and certification institute.

Application range

- Laying in tubes, exposed or buried in plaster, and in closed installation ducts
- For direct laying on racks, troughs and tubes only as potential equalisation conductor

Product features

- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- <VDE> cable type certification acc. EN 50525-2-31

Product Make-up

- Fine-wired copper conductor of bare copper strands in line with conductor class 5 acc. IEC 60228
- Core insulation: Based on PVC

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000993 ETIM 5.0/6.0 Class-Description: Single core cable
	Conductor stranding Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
	Minimum bending radius 6 x cable diameter
	Nominal voltage U ₀ /U: 450/750 V
	Test voltage 2500 V
	Temperature range Fixed installation: -30°C to +70°C

Conductor Cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	green/yellow	black	blue	brown	red
1.5	3.2	14.4	22	8120001	8120011	8120021	8120031	8120041
2.5	3.6	24.0	32	8120002	8120012	8120022	8120032	8120042
4	4.6	38.4	52	8120003	8120013	8120023	8120033	8120043
6	5.3	57.6	76	8120004	8120014	8120024	8120034	8120044
10	6.3	96.0	119	8120005	8120015	8120025	8120035	8120045
16	7.4	153.6	175	8120006	8120016	8120026	8120036	8120046
25	9.2	240.0	270	8121001	8121011	8121021	8121031	8121041
35	10.5	336.0	373	8121002	8121012	8121022	8121032	8121042
50	12.5	480.0	519	8121003	8121013	8121023	8121033	8121043
70	14.4	672.0	726	8121004	8121014	8121024	8121034	8121044
95	16.6	912.0	960	8121005	8121015	8121025	8121035	8121045
120	18.3	1152.0	1198	8121006	8121016	8121026	8121036	8121046
150	20.6	1440.0	1491	8121007	8121017	8121027	8121037	8121047
185	22.8	1776.0	1829	8121008	8121018	8121028	8121038	8121048
240	26.0	2304.0	2383	8121009	8121019	8121029	8121039	8121049

Conductor Cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	white	grey	orange	yellow	green
1.5	3.2	14.4	22	8120051	8120061	8120091	8120111	8120121
2.5	3.6	24.0	32	8120052	8120062	8120092	8120112	8120122
4	4.6	38.4	52	8120053	8120063	8120093	8120113	8120123
6	5.3	57.6	76	8120054	8120064	8120094	8120114	8120124
10	6.3	96.0	119	8120055	8120065	8120095	8120115	8120125
16	7.4	153.6	175	8120056	8120066	8120096	8120116	8120126
25	9.2	240.0	270	8121051	8121061	8121091	8121111	8121121
35	10.5	336.0	373	8121052	8121062	8121092	8121112	8121122
50	12.5	480.0	519	8121053	8121063	8121093	8121113	8121123
70	14.4	672.0	726	8121054	8121064	8121094	8121114	8121124
95	16.6	912.0	960	8121055	8121065	8121095	8121115	8121125
120	18.3	1152.0	1198	8121056	8121066	8121096	8121116	8121126
150	20.6	1440.0	1491	8121057	8121067	8121097	8121117	8121127
185	22.8	1776.0	1829	8121058	8121068	8121098	8121118	8121128
240	26.0	2304.0	2383	8121059	8121069	8121099	8121119	8121129

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60227 IEC 05(BV)

Single-core non-sheathed cable with solid conductor for internal wiring for a conductor temperature of 70 °C



Info

- Rated voltage U_0/U : 300/500 V
- With CCC certification

Technical data

- Conductor stranding**
Solid copper conductor according to IEC 60228 Class 1, GB/T 3956 Class 1
- Minimum bending radius**
4 x outer diameter for fixed installation
- Nominal voltage**
 U_0/U : 300/500 V
- Test voltage**
2000 V
- Temperature range**
Fixed installation: -30°C to +80°C
- Core identification code**
Optional
- Protective conductor**
Optional
- Classification**
Optional

Benefits

- With CCC certification issued by China Quality Certification Center

Application range

- Internal wiring of devices and control cabinets
- Protected installation in and on lighting equipment
- Signal systems in and on plaster in tubes

Product features

- Fixed installation temperature down to -40°C
- Flame retardant according to IEC 60332-1-2

Norm references / Approvals

- CCC certificate according to GB/T 5023.3, IEC 60227-3

Product Make-up

- Solid copper conductor according IEC 60228 Class 1, GB/T 3956 Class 1
- Special PVC insulation

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
60227 IEC 05(BV) 300/500 V					
39340001	1 X 0.5	2.1	green-yellow	10.0	5
39340101	1 X 0.5	2.1	black	10.0	5
39340201	1 X 0.5	2.1	blue	10.0	5
39340301	1 X 0.5	2.1	brown	10.0	5
39340401	1 X 0.5	2.1	red	10.0	5
39340501	1 X 0.5	2.1	white	10.0	5
39340601	1 X 0.5	2.1	grey	10.0	5
39340701	1 X 0.5	2.1	violet	10.0	5
39340801	1 X 0.5	2.1	pink	10.0	5
39340901	1 X 0.5	2.1	orange	10.0	5
39341101	1 X 0.5	2.1	yellow	10.0	5
39341201	1 X 0.5	2.1	green	10.0	5
39341401	1 X 0.5	2.1	dark blue	10.0	5
39340002	1 X 0.75	2.3	green-yellow	10.0	7
39340102	1 X 0.75	2.3	black	10.0	7
39340202	1 X 0.75	2.3	blue	10.0	7
39340302	1 X 0.75	2.3	brown	10.0	7
39340402	1 X 0.75	2.3	red	10.0	7
39340502	1 X 0.75	2.3	white	10.0	7
39340602	1 X 0.75	2.3	grey	10.0	7
39340702	1 X 0.75	2.3	violet	10.0	7
39340802	1 X 0.75	2.3	pink	10.0	7
39340902	1 X 0.75	2.3	orange	10.0	7
39341102	1 X 0.75	2.3	yellow	10.0	7
39341202	1 X 0.75	2.3	green	10.0	7
39341402	1 X 0.75	2.3	dark blue	10.0	7
39340003	1 X 1.0	2.5	green-yellow	20.0	10
39340103	1 X 1.0	2.5	black	20.0	10
39340203	1 X 1.0	2.5	blue	20.0	10
39340303	1 X 1.0	2.5	brown	20.0	10
39340403	1 X 1.0	2.5	red	20.0	10
39340503	1 X 1.0	2.5	white	20.0	10
39340603	1 X 1.0	2.5	grey	20.0	10
39340703	1 X 1.0	2.5	violet	20.0	10
39340803	1 X 1.0	2.5	pink	20.0	10
39340903	1 X 1.0	2.5	orange	20.0	10
39341103	1 X 1.0	2.5	yellow	20.0	10
39341203	1 X 1.0	2.5	green	20.0	10
39341403	1 X 1.0	2.5	dark blue	20.0	10

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60227 IEC 01(BV)

Single-core non-sheathed cable with rigid conductor for general purposes



Info

- Rated voltage U_0/U : 450/750 V
- With CCC certification

Benefits

- With CCC certification issued by China Quality Certification Center

Application range

- Internal wiring of devices and control cabinets
- Laying in tubes, exposed or buried in plaster, and in closed installation ducts
- Factory wiring and Field wiring

Product features

- Fixed installation temperature down to -30°C
- Flame retardant according to IEC 60332-1-2

Norm references / Approvals

- CCC certificate according to GB/T 5023.3, IEC 60227-3

Product Make-up

- Up to 10 mm^2 : Solid copper conductor according to IEC 60228 class 1, GB/T 3956 Class 1
- From 16 mm^2 : Multi copper wires stranded according to IEC 60228 Class 2, GB/T 3956 Class 2
- Special PVC insulation

Technical data

- Conductor stranding**
Up to 10 mm^2 : Solid copper conductor according to IEC 60228 class 1, GB/T 3956 Class 1
From 16 mm^2 : Multi copper wires stranded according to IEC 60228 Class 2, GB/T 3956 Class 2
- Minimum bending radius**
 $OD \leq 12\text{ mm}$: $6 \times$ outer diameter
 $OD > 12\text{ mm}$: $8 \times$ outer diameter
- Nominal voltage**
 U_0/U : 450/750 V
- Test voltage**
2500 V
- Temperature range**
Fixed installation: -30°C to $+80^{\circ}\text{C}$
- Core identification code**
Optional
- Protective conductor**
Optional
- Classification**
Optional

Article number	Number of cores and mm^2 per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
60227 IEC 01(BV) 450/750 V					
39370004	1 X 1.5	2.9	green-yellow	20.0	14
39370104	1 X 1.5	2.9	black	20.0	14
39370204	1 X 1.5	2.9	blue	20.0	14
39370304	1 X 1.5	2.9	brown	20.0	14
39370604	1 X 1.5	2.9	grey	20.0	14
39370005	1 X 2.5	3.4	green-yellow	40.0	24
39370105	1 X 2.5	3.4	black	40.0	24
39370205	1 X 2.5	3.4	blue	40.0	24
39370305	1 X 2.5	3.4	brown	40.0	24
39370605	1 X 2.5	3.4	grey	40.0	24
39370006	1 X 4	4.1	green-yellow	50.0	38
39370106	1 X 4	4.1	black	50.0	38
39370206	1 X 4	4.1	blue	50.0	38
39370306	1 X 4	4.1	brown	50.0	38
39370606	1 X 4	4.1	grey	50.0	38
39370007	1 X 6	4.6	green-yellow	70.0	58
39370107	1 X 6	4.6	black	70.0	58
39370207	1 X 6	4.6	blue	70.0	58
39370307	1 X 6	4.6	brown	70.0	58
39370607	1 X 6	4.6	grey	70.0	58
39370008	1 X 10	6.2	green-yellow	120.0	96
39370108	1 X 10	6.2	black	120.0	96
39370208	1 X 10	6.2	blue	120.0	96
39370308	1 X 10	6.2	brown	120.0	96
39370608	1 X 10	6.2	grey	120.0	96
39370009	1 X 16	7.3	green-yellow	190.0	153
39370109	1 X 16	7.3	black	190.0	153
39370209	1 X 16	7.3	blue	190.0	153
39370309	1 X 16	7.3	brown	190.0	153
39370609	1 X 16	7.3	grey	190.0	153
39370010	1 X 25	9.3	green-yellow	290.0	240
39370110	1 X 25	9.3	black	290.0	240
39370210	1 X 25	9.3	blue	290.0	240
39370310	1 X 25	9.3	brown	290.0	240
39370610	1 X 25	9.3	grey	290.0	240
39370011	1 X 35	10.3	green-yellow	400.0	336
39370111	1 X 35	10.3	black	400.0	336

Article number	Number of cores and mm^2 per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
39370211	1 X 35	10.3	blue	400.0	336
39370311	1 X 35	10.3	brown	400.0	336
39370611	1 X 35	10.3	grey	400.0	336
39370012	1 X 50	12.2	green-yellow	560.0	480
39370112	1 X 50	12.2	black	560.0	480
39370212	1 X 50	12.2	blue	560.0	480
39370312	1 X 50	12.2	brown	560.0	480
39370612	1 X 50	12.2	grey	560.0	480
39370013	1 X 70	13.9	green-yellow	780.0	672
39370113	1 X 70	13.9	black	780.0	672
39370213	1 X 70	13.9	blue	780.0	672
39370313	1 X 70	13.9	brown	780.0	672
39370613	1 X 70	13.9	grey	780.0	672
39370014	1 X 95	16.3	green-yellow	1,030.0	912
39370114	1 X 95	16.3	black	1,030.0	912
39370214	1 X 95	16.3	blue	1,030.0	912
39370314	1 X 95	16.3	brown	1,030.0	912
39370614	1 X 95	16.3	grey	1,030.0	912
39370015	1 X 120	17.8	green-yellow	1,290.0	1,152
39370115	1 X 120	17.8	black	1,290.0	1,152
39370215	1 X 120	17.8	blue	1,290.0	1,152
39370315	1 X 120	17.8	brown	1,290.0	1,152
39370615	1 X 120	17.8	grey	1,290.0	1,152
39370016	1 X 150	19.8	green-yellow	1,560.0	1,440
39370116	1 X 150	19.8	black	1,560.0	1,440
39370216	1 X 150	19.8	blue	1,560.0	1,440
39370316	1 X 150	19.8	brown	1,560.0	1,440
39370616	1 X 150	19.8	grey	1,560.0	1,440
39370017	1 X 185	22.0	green-yellow	1,920.0	1,776
39370117	1 X 185	22.0	black	1,920.0	1,776
39370217	1 X 185	22.0	blue	1,920.0	1,776
39370317	1 X 185	22.0	brown	1,920.0	1,776
39370617	1 X 185	22.0	grey	1,920.0	1,776
39370018	1 X 240	25.1	green-yellow	2,550.0	2,304
39370118	1 X 240	25.1	black	2,550.0	2,304
39370218	1 X 240	25.1	blue	2,550.0	2,304
39370318	1 X 240	25.1	brown	2,550.0	2,304
39370618	1 X 240	25.1	grey	2,550.0	2,304

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Power and control cables

Control Cabinet Applications



60227 IEC 06(RV) / H05V-K

Single-core non-sheathed cable with flexible conductor for general purposes



Info

- Rated voltage U_0/U : 300/500 V
- With CCC certification
- With <VDE> cable type certification

Benefits

- With CCC certification issued by China Quality Certification Center
- With <VDE> cable type certification issued by the VDE testing and certification institute. Cable's <VDE> marking is a testing mark /proof of the successful testing according to VDE/EN/IEC standards as well as possible health and safety regulations

Application range

- Internal wiring of devices and control cabinets
- Protected installation in and on lighting equipment
- Signal systems in and on plaster in tubes

Product features

- Fixed installation temperature down to -40°C
- Flame retardant according to IEC 60332-1-2

Norm references / Approvals

- CCC certificate according to GB/T 5023.3, IEC 60227-3
- <VDE> cable type certification according to EN 50525-2-31

Product Make-up

- Fine-wired copper conductor of bare copper strands according to class 5 of VDE 0295, IEC 60228, GB/T 3956
- PVC insulation

Technical data

- Conductor stranding**
Fine wire according to VDE 0295 Class 5, IEC 60228 Class 5, GB/T 3956 Class 5
- Minimum bending radius**
4 x outer diameter for fixed installation
- Nominal voltage**
 U_0/U : 300/500 V
- Test voltage**
2000 V
- Temperature range**
Fixed installation: -40°C to +80°C
- Core identification code**
Optional
- Protective conductor**
Optional
- Classification**
Optional

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
60227 IEC 06(RV) / H05V-K					
3910001	1 X 0.5	2.2	green-yellow	4.8	10
3910011	1 X 0.5	2.2	black	4.8	10
3910021	1 X 0.5	2.2	blue	4.8	10
3910031	1 X 0.5	2.2	brown	4.8	10
3910041	1 X 0.5	2.2	red	4.8	10
3910051	1 X 0.5	2.2	white	4.8	10
3910061	1 X 0.5	2.2	grey	4.8	10
3910071	1 X 0.5	2.2	violet	4.8	10
3910081	1 X 0.5	2.2	pink	4.8	10
3910091	1 X 0.5	2.2	orange	4.8	10
3910111	1 X 0.5	2.2	yellow	4.8	10
3910121	1 X 0.5	2.2	green	4.8	10
3910141	1 X 0.5	2.2	dark blue	4.8	10
3910002	1 X 0.75	2.4	green-yellow	7.2	10
3910012	1 X 0.75	2.4	black	7.2	10
3910022	1 X 0.75	2.4	blue	7.2	10
3910032	1 X 0.75	2.4	brown	7.2	10
3910042	1 X 0.75	2.4	red	7.2	10
3910052	1 X 0.75	2.4	white	7.2	10
3910062	1 X 0.75	2.4	grey	7.2	10
3910072	1 X 0.75	2.4	violet	7.2	10
3910082	1 X 0.75	2.4	pink	7.2	10
3910092	1 X 0.75	2.4	orange	7.2	10
3910112	1 X 0.75	2.4	yellow	7.2	10
3910122	1 X 0.75	2.4	green	7.2	10
3910142	1 X 0.75	2.4	dark blue	7.2	10
3910003	1 X 1.0	2.6	green-yellow	9.6	20
3910013	1 X 1.0	2.6	black	9.6	20
3910023	1 X 1.0	2.6	blue	9.6	20
3910033	1 X 1.0	2.6	brown	9.6	20
3910043	1 X 1.0	2.6	red	9.6	20
3910053	1 X 1.0	2.6	white	9.6	20
3910063	1 X 1.0	2.6	grey	9.6	20
3910073	1 X 1.0	2.6	violet	9.6	20
3910083	1 X 1.0	2.6	pink	9.6	20
3910093	1 X 1.0	2.6	orange	9.6	20
3910113	1 X 1.0	2.6	yellow	9.6	20
3910123	1 X 1.0	2.6	green	9.6	20
3910143	1 X 1.0	2.6	dark blue	9.6	20

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60227 IEC 02(RV) / H07V-K

Single-core non-sheathed cable with flexible conductor for general purposes



Info

- Rated voltage U_0/U : 450/750 V
- With CCC certification
- With <VDE> cable type certification

Benefits

- With CCC certification issued by China Quality Certification Center
- With <VDE> cable type certification issued by the VDE testing and certification institute. Cable's <VDE> marking is a testing mark /proof of the successful testing according to VDE/EN/IEC standards as well as possible health and safety regulations

Application range

- Internal wiring of devices and control cabinets
- Laying in tubes, exposed or buried in plaster and in closed installation ducts
- For direct laying on racks, troughs and tubes, only as potential equalisation conductor

Product features

- Fixed installation temperature down to -40°C
- Flame retardant according to IEC 60332-1-2

Norm references / Approvals

- CCC certificate according to GB/T 5023.3, IEC 60227-3
- <VDE> cable type certification according to EN 50525-2-31

Product Make-up

- Fine-wired copper conductor of bare copper strands according to class 5 of VDE 0295, IEC 60228, GB/T 3956
- PVC insulation

Technical data

- Conductor stranding**
Fine wire according to VDE 0295 Class 5, IEC 60228 Class 5, GB/T 3956 Class 5
- Minimum bending radius**
6 x outer diameter for fixed installation
4 x outer diameter for cautions bending
- Nominal voltage**
 U_0/U : 450/750 V
- Test voltage**
2500 V
- Temperature range**
Fixed installation: -40°C to +80°C
- Core identification code**
Optional
- Protective conductor**
Optional
- Classification**
Optional

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
60227 IEC 02(RV) / H07V-K					
3911001	1 X 1.5	3.1	green-yellow	14.4	20
3911011	1 X 1.5	3.1	black	14.4	20
39110211	1 X 1.5	3.1	blue	14.4	20
3911031	1 X 1.5	3.1	brown	14.4	20
3911061	1 X 1.5	3.1	grey	14.4	20
3911002	1 X 2.5	3.7	green-yellow	24.0	40
3911012	1 X 2.5	3.7	black	24.0	40
39110221	1 X 2.5	3.7	blue	24.0	40
3911032	1 X 2.5	3.7	brown	24.0	40
3911062	1 X 2.5	3.7	grey	24.0	40
3911003	1 X 4	4.3	green-yellow	38.4	50
3911013	1 X 4	4.3	black	38.4	50
39110231	1 X 4	4.3	blue	38.4	50
3911033	1 X 4	4.3	brown	38.4	50
3911063	1 X 4	4.3	grey	38.4	50
3911004	1 X 6	4.8	green-yellow	54.6	70
3911014	1 X 6	4.8	black	54.6	70
39110241	1 X 6	4.8	blue	54.6	70
3911034	1 X 6	4.8	brown	54.6	70
3911064	1 X 6	4.8	grey	54.6	70
3911005	1 X 10	6.5	green-yellow	96.0	120
3911015	1 X 10	6.5	black	96.0	120
39110251	1 X 10	6.5	blue	96.0	120
3911035	1 X 10	6.5	brown	96.0	120
3911065	1 X 10	6.5	grey	96.0	120
3911006	1 X 16	7.7	green-yellow	153.6	190
3911016	1 X 16	7.7	black	153.6	190
39110261	1 X 16	7.7	blue	153.6	190
3911036	1 X 16	7.7	brown	153.6	190
3911066	1 X 16	7.7	grey	153.6	190
3912001	1 X 25	9.7	green-yellow	240.0	290
3912011	1 X 25	9.7	black	240.0	290
3912910	1 X 25	9.7	blue	240.0	290
3912031	1 X 25	9.7	brown	240.0	290
3912061	1 X 25	9.7	grey	240.0	290
3912002	1 X 35	10.9	green-yellow	336.0	400
3912012	1 X 35	10.9	black	336.0	400

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
3912912	1 X 35	10.9	blue	336.0	400
3912032	1 X 35	10.9	brown	336.0	400
3912062	1 X 35	10.9	grey	336.0	400
3912003	1 X 50	13.1	green-yellow	480.0	560
3912013	1 X 50	13.1	black	480.0	560
3912913	1 X 50	13.1	blue	480.0	560
3912033	1 X 50	13.1	brown	480.0	560
3912063	1 X 50	13.1	grey	480.0	560
3912004	1 X 70	14.9	green-yellow	672.0	770
3912014	1 X 70	14.9	black	672.0	770
3912915	1 X 70	14.9	blue	672.0	770
3912034	1 X 70	14.9	brown	672.0	770
3912064	1 X 70	14.9	grey	672.0	770
3912005	1 X 95	17.3	green-yellow	912.0	1,030
3912015	1 X 95	17.3	black	912.0	1,030
3912917	1 X 95	17.3	blue	912.0	1,030
3912035	1 X 95	17.3	brown	912.0	1,030
3912065	1 X 95	17.3	grey	912.0	1,030
3912006	1 X 120	19.2	green-yellow	1,152.0	1,290
3912016	1 X 120	19.2	black	1,152.0	1,290
3912918	1 X 120	19.2	blue	1,152.0	1,290
3912036	1 X 120	19.2	brown	1,152.0	1,290
3912066	1 X 120	19.2	grey	1,152.0	1,290
3912007	1 X 150	21.3	green-yellow	1,440.0	1,560
3912017	1 X 150	21.3	black	1,440.0	1,560
3912929	1 X 150	21.3	blue	1,440.0	1,560
3912037	1 X 150	21.3	brown	1,440.0	1,560
3912067	1 X 150	21.3	grey	1,440.0	1,560
3912008	1 X 185	23.7	green-yellow	1,776.0	1,920
3912018	1 X 185	23.7	black	1,776.0	1,920
3912922	1 X 185	23.7	blue	1,776.0	1,920
3912038	1 X 185	23.7	brown	1,776.0	1,920
3912068	1 X 185	23.7	grey	1,776.0	1,920
3912009	1 X 240	26.8	green-yellow	2,304.0	2,550
3912019	1 X 240	26.8	black	2,304.0	2,550
3912924	1 X 240	26.8	blue	2,304.0	2,550
3912039	1 X 240	26.8	brown	2,304.0	2,550
3912069	1 X 240	26.8	grey	2,304.0	2,550

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V-90HT SC

High temperature PVC insulated cables



Info

- Single core, flexible hook-up wire
- Based on UL Style 1015, UL Style 10269 and AS/NZS 5000.1
- Temperature up to 105°C

Benefits

- The light weight and the practical hand holes in the spool packaging makes handling easy

Application range

- Suitable for assembling cable harnesses and wiring in the switch cabinet installation
- Used for installations in plants, devices, switch gear cabinets, where high temperature occur

Product features

- Flame retardant in acc. to VW -1, and IEC 60332-1-2
- Wide temperature range up to 105°C

Product Make-up

- Fine strands of tinned annealed copper wire
- High temperature PVC based core insulation

Technical data



Classification

ETIM 5.0 Class-Description: Single core cable
ETIM 5.0 Class-ID: EC000993



Conductor stranding

Fine wire acc. to VDE 0295 Cl.5 / IEC 60228 Cl.5



Minimum bending radius

Fixed installation: 3 x cable diameter



Nominal voltage

U₀/U: 600/1000 V



Temperature range

-20°C to +105°C

Conductor Cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	green/yellow	black	blue	brown	red	white	grey
0.5	2.5	4.8	11	3801000	3801001	3801002	3801003	3801004	3801005	3801006
0.75	2.7	7.2	14	3801010	3801011	3801012	3801013	3801014	3801015	3801016
1.0	2.9	9.6	17	3801020	3801021	3801022	3801023	3801024	3801025	3801026
1.5	3.2	14.4	23	3801030	3801031	3801032	3801033	3801034	3801035	3801036
2.5	3.7	24.0	34	3801040	3801041	3801042	3801043	3801044	3801045	3801046
4	4.3	38.4	54	3801050A	3801051A	3801052A	3801053A	3801054A	3801055A	3801056A
6	4.9	57.6	88	3801060A	3801061A	3801062A	3801063A	3801064A	3801065A	3801066A
10	6.5	96.0	138	3801070	3801071	3801072	3801073	3801074	3801075	3801076
16	8.4	153.6	231	3801080	3801081	3801082	3801083	3801084	3801085	3801086
25	10.2	240.0	305	3802410	3802411	3802412	3802413	3802414	3802415	3802416
35	12.4	336.0	437	3802420	3802421	3802422	3802423	3802424	3802425	3802426
50	13.9	480.0	588	3802430	3802431	3802432	3802433	3802434	3802435	3802436
70	16.0	672.0	790	3802440	3802441	3802442	3802443	3802444	3802445	3802446
95	18.0	912.0	1051	3802450	3802451	3802452	3802453	3802454	3802455	3802456
120	20.5	1152.0	1330	3802460	3802461	3802462	3802463	3802464	3802465	3802466
150	22.2	1440.0	1628	3802470	3802471	3802472	3802473	3802474	3802475	3802476
185	24.2	1776.0	1984	3802480	3802481	3802482	3802483	3802484	3802485	3802486
240	29.5	2304.0	2514	3802490	3802491	3802492	3802493	3802494	3802495	3802496

Conductor Cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	violet	pink	orange	yellow	green	dark blue
0.5	2.5	4.8	11	3801007	3801008	3801009	38010011	38010012	38010014
0.75	2.7	7.2	14	3801017	3801018	3801019	38010111	3801362	38010114
1.0	2.9	9.6	17	3801027	3801028	3801029	38010211	38010212	38010214
1.5	3.2	14.4	23	3801037	3801038	3801039	38010311	38010312	38010314
2.5	3.7	24.0	34	3801047	3801048	3801049	38010411	38010412	38010414
4	4.3	38.4	54	3801057A	3801058A	3801059A	38010511A	38010512A	38010514A
6	4.9	57.6	88	3801067A	3801068A	3801069A	38010611A	38010612A	38010614A
10	6.5	96.0	138	3801077	3801078	3801079	38010711	38010712	38010714
16	8.4	153.6	231	3801087	3801088	3801089	38010811	38010812	38010814
25	10.2	240.0	305	3802417	3802418	3802419	38024111	38024112	38024114
35	12.4	336.0	437	3802427	3802428	3802429	38024211	38024212	38024214
50	13.9	480.0	588	3802437	3802438	3802439	38024311	38024312	38024314
70	16.0	672.0	790	3802447	3802448	3802449	38024411	38024412	38024414
95	18.0	912.0	1051	3802457	3802458	3802459	38024511	38024512	38024514
120	20.5	1152.0	1330	3802467	3802468	3802469	38024611	38024612	38024614
150	22.2	1440.0	1628	3802477	3802478	3802479	38024711	38024712	38024714
185	24.2	1776.0	1984	3802487	3802488	3802489	38024811	38024812	38024814
240	29.5	2304.0	2514	3802497	3802498	3802499	38024911	38024912	38024914

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FLEXI H SC

Flexible halogen-free



Info

- Single core, Flexible
- Halogen-free



Benefits

- Halogen free insulation material and free of releasing corrosive gases in the event of fire

Application range

- For use in wiring switchgear, control panel, lighting, and distribution boxes installation
- For installation in enclosed metallic or non-metallic conduit, ducting, and trunking protective cover
- In buildings with a high concentration of people or valuables

Product features

- Flame retardant in acc. to IEC 60332-3-22
- Halogen free in acc. to IEC 60754-1
- Smoke density in acc. to IEC 61034

Norm references / Approvals

- Based on IEC 60502-1

Product Make-up

- Fine strands of bare copper wire
- LSHF core insulation

Technical data



Classification

ETIM 5.0 Class-Description: Single core cable
ETIM 5.0 Class-ID: EC000993



Conductor stranding

Fine wire acc. to IEC 60228 Cl. 5 / BS 6360 Cl. 5



Minimum bending radius

Fixed installation: 6 x cable diameter



Nominal voltage

U₀/U: 600/1000 V



Temperature range

-30°C to +90°C

Conductor Cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	green/yellow	black	blue	brown	red
0.5	2.5	4.8	11	3802210	3802211	3802212	3802213	3802214
0.75	2.8	7.2	14	3802220	3802221	3802222	3802223	3802224
1.0	2.9	9.6	16	3802230	3802231	3802232	3802233	3802234
1.5	3.2	14.4	22	3802240	3802241	3802242	3802243	3802244
2.5	3.6	24.0	32	3802250	3802251	3802252	3802253	3802254
4	4.6	38.4	52	3802260	3802261	3802262	3802263	3802264
6	5.3	57.6	76	3802270	3802271	3802272	3802273	3802274
10	6.3	96.0	119	3802280	3802281	3802282	3802283	3802284
16	7.4	153.6	175	3802290	3802291	3802292	3802293	3802294
25	9.2	240.0	270	3802300	3802301	3802302	3802303	3802304
35	10.5	336.0	373	3802310	3802311	3802312	3802313	3802314
50	12.5	480.0	519	3802320	3802321	3802322	3802323	3802324
70	14.4	672.0	726	3802330	3802331	3802332	3802333	3802334
95	16.6	912.0	960	3802340	3802341	3802342	3802343	3802344
120	18.3	1152.0	1198	3802350	3802351	3802352	3802353	3802354
150	20.6	1440.0	1491	3802360	3802361	3802362	3802363	3802364
185	22.8	1776.0	1829	3802370	3802371	3802372	3802373	3802374
240	26.0	2304.0	2383	3802380	3802381	3802382	3802383	3802384

Conductor Cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	grey	white	orange	yellow	green
0.5	2.5	4.8	11	3802215	3802216	3802217	3802218	3802219
0.75	2.8	7.2	14	3802225	3802226	3802227	3802228	3802229
1.0	2.9	9.6	16	3802235	3802236	3802237	3802238	3802239
1.5	3.2	14.4	22	3802245	3802246	3802247	3802248	3802249
2.5	3.6	24.0	32	3802255	3802256	3802257	3802258	3802259
4	4.6	38.4	52	3802265	3802266	3802267	3802268	3802269
6	5.3	57.6	76	3802275	3802276	3802277	3802278	3802279
10	6.3	96.0	119	3802285	3802286	3802287	3802288	3802289
16	7.4	153.6	175	3802295	3802296	3802297	3802298	3802299
25	9.2	240.0	270	3802305	3802306	3802307	3802308	3802309
35	10.5	336.0	373	3802315	3802316	3802317	3802318	3802319
50	12.5	480.0	519	3802325	3802326	3802327	3802328	3802329
70	14.4	672.0	726	3802335	3802336	3802337	3802338	3802339
95	16.6	912.0	960	3802345	3802346	3802347	3802348	3802349
120	18.3	1152.0	1198	3802355	3802356	3802357	3802358	3802359
150	20.6	1440.0	1491	3802365	3802366	3802367	3802368	3802369
185	22.8	1776.0	1829	3802375	3802376	3802377	3802378	3802379
240	26.0	2304.0	2383	3802385	3802386	3802387	3802388	3802389

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ÖLFLEX® POWER LV PVC FR

PVC Insulated Heavy Duty Application FR PVC Cable As per IS 1554 (Part-I) 1988



Info

- Low voltage power cable 650/1100 V
- Double sheathed cable for heavy duty application

Benefits

- Wide range of products variant, up to 300 articles

Application range

- For main power distribution and lighting circuits in residential and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts

Product features

- Flame retardant: According to IEC 60332-1
- UV - resistant outer sheath for outdoor application and AR best suitable anti rodent application

Norm references / Approvals

- IS 1554 (Part-I) 1988

Product Make-up

- Conductor : Annealed bare copper conductor of Class II as per IS 8130
- Insulation : PVC
- Inner Sheath : PVC
- Outer Sheath :
 - PVC
 - PVC with UVAR
 - FRLS PVC
 - FRLS PVC with UVAR

Technical data



Core identification code
As per IS 1554 (Part-I) 1988



Conductor stranding
Class II as per IS 8130



Minimum bending radius
10 Times the OD



Nominal voltage
1100 Volts



Temperature range
-5°C up to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV FR - RIYYY1BK				
382003146	2 X 1.5	11.4	26.6	178
382003147	3 X 1.5	11.9	40.0	203
382003148	4 X 1.5	12.8	53.2	240
382003156	12 X 1.5	18.3	159.8	459
382003164	20 X 1.5	22.5	266.4	706
382003206	2 X 2.5	12.6	43.5	227
382003207	3 X 2.5	13.2	65.3	262
382003208	4 X 2.5	14.2	87.0	313
382003216	12 X 2.5	21.2	261.0	650
382003224	20 X 2.5	25.7	435.0	982
382003285	2 X 4	14.0	69.2	292
382003300	3 X 4	14.7	103.8	344
382003326	4 X 4	15.9	138.4	415
ÖLFLEX® POWER LV FR UVAR - RIYYYUVAR1BK				
382003340	2 X 1.5	11.4	26.6	178
382003341	3 X 1.5	11.9	40.0	203
382003342	4 X 1.5	12.8	53.3	240
382003479	2 X 4	14.0	69.2	292
382003494	3 X 4	14.7	103.8	344
382003520	4 X 4	15.9	138.4	415
ÖLFLEX® POWER LV FRLS - RIYYC11BK				
382003535	3 X 1.5	11.9	40.0	211
382003536	4 X 1.5	12.8	53.3	249
382003595	3 X 1.5	13.2	65.2	271
382003596	4 X 2.5	14.2	87.0	322
382003688	3 X 4	14.7	103.8	354
382003714	4 X 4	15.9	138.4	426

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV FRLS - RIYYC1YC11BK				
382003923	3 X 1.5	11.9	40.0	215
382003924	4 X 1.5	12.8	53.3	253
382003983	3 X 2.5	13.2	65.2	276
382003984	4 X 2.5	14.2	87.0	328
382004057	3 X 4	14.7	103.8	360
382004083	4 X 4	15.9	138.4	433
ÖLFLEX® POWER LV FRLS UVAR - RIYYC1YC1UVAR1BK				
382004098	3 X 1.5	11.9	40.0	215
382004099	4 X 1.5	12.8	53.3	253
382004232	3 X 4	14.7	103.8	360
382004258	4 X 4	15.9	138.4	433
ÖLFLEX® POWER LV FRLS UVAR - RIYYC1UVAR1BK				
382003729	3 X 1.5	11.9	40.0	211
382003729	4 X 1.5	12.8	53.3	249
382003729	3 X 2.5	13.2	65.2	271
382003729	4 X 2.5	14.2	87.0	322
382003729	3 X 4	14.7	103.8	354
382003729	4 X 4	15.9	138.4	426
382003729	3 X 25 + 1 X 16	25.3	797.0	1,265

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ÖLFLEX® POWER LV PVC FR ARM

PVC Insulated Heavy Duty Application FR PVC Armoured Cable

As per IS 1554 (Part-I) 1988



Info

- Low voltage power cable 650/1100 V
- Armoured and double sheathed FR cable for heavy duty / direct burial application



Benefits

- Wide range of product variants, up to 300 articles

Application range

- For main power distribution and lighting circuits in residential and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts
- Armoured cable best suitable for heavy duty installations

Norm references / Approvals

- IS 1554 (Part-I) 1988

Product features

- Flame retardant: According to IEC 60332-1

- UV - resistant outer sheath for outdoor application and AR best suitable anti rodent application

Product Make-up

- Conductor : Annealed bare copper conductor of Class II as per IS 8130
- Insulation : PVC
- Inner Sheath :
 - i) PVC
 - ii) FRLS PVC
- Mechanical Protection :
 - i) WA - Aluminium Wire Armour
 - ii) SWA - GI wire Armour
 - iii) SSA - GI strip Armour
- Outer Sheath :
 - i) PVC
 - ii) PVC with UVAR
 - iii) FRLS PVC
 - iv) FRLS PVC with UVAR

Technical data

- Core identification code**
As per IS 1554 (Part-I) 1988
- Conductor stranding**
Class II as per IS 8130
- Minimum bending radius**
15 Times the OD
- Nominal voltage**
1100 Volts
- Temperature range**
-5°C up to +70°C

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV FR SSA - RIYSSAY1BK				
382004280	10 X 1.5	18.8	133.2	676
382004284	14 X 1.5	20.5	186.5	825
382004289	19 X 1.5	22.4	253.1	1,010
382004294	24 X 1.5	25.6	319.7	1,210
382004297	27 X 1.5	26.1	359.6	1,309
382004340	10 X 2.5	21.6	217.6	890
382004414	3 X 16	20.6	277.4	972
ÖLFLEX® POWER LV FR SWA - RIYSSWAY1BK				
382004392	1 X 4	11.0	34.6	263
ÖLFLEX® POWER LV FR SWA - RIYSSWAY1BK				
382004272	2 X 1.5	13.6	26.6	392
382004273	3 X 1.5	14.1	40.0	440
382004274	4 X 1.5	15.0	53.3	500
382004275	5 X 1.5	15.9	66.6	563
382004277	7 X 1.5	16.8	93.2	610
382004332	2 X 2.5	14.8	43.5	608
382004333	3 X 2.5	15.4	65.2	522
382004334	4 X 2.5	16.4	87.0	608
382004411	2 X 4	16.2	69.2	575
382004453	4 X 6	20.0	207.2	924
ÖLFLEX® POWER LV FR SSA UVAR - RIYSSAYUVAR1BK				
382004604	1 X 1000	55.8	9,017.6	11,501
ÖLFLEX® POWER LV FR SSA UVAR - RIYSSAYUVAR1BK				
382004476	12 X 1.5	19.7	159.8	770
382004482	18 X 1.5	22.4	239.7	988
382004489	25 X 1.5	25.6	333.0	1,233
382004536	12 X 2.5	22.2	261.0	965
382004635	3 X 25 + 1 X 16	26.3	797.0	1,656
382004659	4 X 300	68.1	10,563.0	14,055
382004634	3 X 400	64.7	10,130.4	13,357

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV FR SWA UVAR - RIYSSWAYUVAR1BK				
382004466	2 X 1.5	13.6	26.6	392
382004467	3 X 1.5	14.1	40.0	440
382004468	4 X 1.5	15.0	53.3	500
382004469	5 X 1.5	15.9	66.6	563
382004471	7 X 1.5	16.8	93.2	610
382004527	3 X 2.5	15.4	65.2	522
382004620	3 X 4	16.9	103.8	650
382004646	4 X 4	18.1	138.4	745
ÖLFLEX® POWER LV FRLS ARM - RIYWAYC11BK				
382005437	1 X 6	11.6	51.8	217
ÖLFLEX® POWER LV FRLS SWA - RIYCY1SWAYC11BK				
382005050	4 X 1.5	15.0	53.3	154
382005052	6 X 1.5	16.8	79.9	600
382005109	3 X 2.5	15.4	65.2	537
382005110	4 X 2.5	16.4	87.0	623
382005183	3 X 4	16.9	103.8	667
382005209	4 X 4	18.1	138.4	763
ÖLFLEX® POWER LV FRLS SWA - RIYSSWAYC11BK				
382004661	3 X 1.5	14.1	40.0	448
382004662	4 X 1.5	15.0	53.3	509
382004721	3 X 2.5	15.4	65.2	531
382004722	4 X 2.5	16.4	87.0	618
382004814	3 X 4	16.9	103.8	660
382004840	4 X 4	18.1	138.4	756
ÖLFLEX® POWER LV FRLS SW UVAR - RIYSSWAYC1UVAR1BK				
382004856	4 X 1.5	15.0	53.3	509
382004857	5 X 1.5	15.9	66.6	572
382004916	4 X 2.5	16.4	87.0	618
382005008	3 X 4	16.9	103.8	660
382005034	4 X 4	18.1	138.4	756
ÖLFLEX® POWER LV FRLS SWA UVAR - RIYCY1SWAYC1UVAR1BK				
382005225	4 X 1.5	15.0	53.3	514
382005285	4 X 2.5	16.4	87.0	623
382005358	3 X 4	16.9	103.8	667

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ÖLFLEX® POWER LV HR PVC FR

PVC Insulated Heavy Duty Application Heat Resistant (HR) FR PVC Cable
As per IS 1554 (Part-I) 1988



Info

- Low voltage power cable 650/1100 V
- Double sheathed FR cable for heavy duty application

Benefits

- Wide range of product variants, up to 300 articles
- Expanded temperature application

Application range

- For main power distribution and lighting circuits in residential and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts
- For expanded temperature application

Norm references / Approvals

- IS 1554 (Part-I) 1988

Product features

- Flame retardant: According to IEC 60332-1
- UV - resistant outer sheath for outdoor application and AR best suitable anti rodent application

Product Make-up

- Conductor : Annealed bare copper conductor of Class II as per IS 8130
- Insulation : PVC
- Inner Sheath : PVC
- Outer Sheath :
 - PVC
 - PVC with UVAR
 - FRLS PVC
 - FRLS PVC with UVAR

Technical data

- Core identification code**
As per IS 1554 (Part-I) 1988
- Conductor stranding**
Class II as per IS 8130
- Minimum bending radius**
10 Times the OD
- Nominal voltage**
1100 Volts
- Temperature range**
-5°C up to +85°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV HR FR - RIY3Y21BK				
382005594	1 X 4	8.2	34.6	108
ÖLFLEX® POWER LV HR FR - RIY3Y2Y21BK				
382005474	2 X 1.5	12.8	53.2	240
382005475	3 X 1.5	18.3	159.8	459
382005476	4 X 1.5	22.5	266.4	706
382005482	10 X 1.5	12.6	43.5	227
382005492	20 X 1.5	13.2	65.3	262
382005535	3 X 2.5	14.2	87.0	313
382005536	4 X 2.5	21.2	261.0	650
382005542	10 X 2.5	25.7	435.0	982
382005552	20 X 2.5	14.0	69.2	292
382005628	3 X 4	14.7	103.8	344
382005654	4 X 4	15.9	138.4	415
382005630	3 X 10	15.9	138.4	415
382005656	4 X 10	11.4	26.6	178
ÖLFLEX® POWER LV HR FR UVAR - RIY3Y2UVAR1BK				
382005788	1 X 4	12.8	53.3	240
ÖLFLEX® POWER LV HR FR UVAR - RIY3Y2Y2UVAR1BK				
382005668	2 X 1.5	11.4	26.6	178
382005669	2 X 1.5	11.9	40.0	203
382005670	4 X 1.5	12.8	53.3	240
382005729	3 X 2.5	13.2	65.2	262
382005730	4 X 2.5	14.2	87.0	313
382005736	10 X 2.5	20.6	217.5	574
382005746	20 X 2.5	25.7	435.0	982
382005822	3 X 4	14.7	103.8	344
382005848	4 X 4	15.9	138.4	415

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV HR FRLS - RIY3Y2YC21BK				
382005863	3 X 1.5	11.9	40.0	211
382005864	4 X 1.5	12.8	53.3	249
382005870	10 X 1.5	17.8	133.2	421
382005923	3 X 2.5	13.2	65.2	271
382005924	4 X 2.5	14.2	87.0	322
382006001	2 X 4	14.0	69.2	302
382006018	3 X 10	18.0	261.5	609
382006021	3 X 35	27.0	913.3	1,608
ÖLFLEX® POWER LV HR FRLS - RIY3YC2YC21BK				
382006251	3 X 1.5	11.9	103.8	360
382006252	4 X 1.5	12.8	138.4	433
382006311	3 X 2.5	13.2	138.4	433
382006312	4 X 2.5	14.2	40.0	211
382006385	3 X 4	14.7	53.3	249
382006413	4 X 10	19.9	65.2	271
ÖLFLEX® POWER LV HR FRLS UVAR - RIY3Y2YC2UVAR1BK				
382006057	3 X 1.5	11.9	40.0	211
382006058	4 X 1.5	12.8	53.3	249
382006117	3 X 2.5	13.2	65.2	271
382006118	4 X 2.5	14.2	87.0	322
382006213	3 X 16	20.8	416.1	862
ÖLFLEX® POWER LV HR FRLS UVAR - RIY3YC2YC2UVAR1BK				
382006424	3 X 1.5	11.9	40.0	215
382006427	4 X 1.5	12.8	53.3	253
382006486	3 X 2.5	13.2	65.2	276
382006487	4 X 2.5	14.2	87.0	328
382006586	4 X 4	15.9	138.4	433
382006563	3 X 16	20.8	416.1	876

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ÖLFLEX® POWER LV HR PVC FR ARM

PVC Insulated Heavy Duty Application Heat Resistant (HR) FR PVC Armoured Cable As per IS 1554 (Part-I) 1988

Info

- Low voltage power cable 650/1100 V
- Armoured and double sheathed FR cable for heavy duty / direct burial application



Benefits

- Wide range of product variants, up to 300 articles
- Extra mechanical protection due to Steel Armour
- Expanded temperature application

Application range

- For main power distribution and lighting circuits in residential and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts
- Armoured cable best suitable for heavy duty installations
- For expanded temperature application
- Particularly where human and animal life as well as valuable property are exposed to risk of fire hazards

Product features

- Flame retardant: According to IEC 60332-1-2 / IEC 60332-3-24
- UV - resistant outer sheath for outdoor application and AR best suitable anti rodent application

- Oxygen Index(Min.) : >29% as per ASTM D 2863 (only for FRLS Outer Sheath)
- Temp. Index (Min.) : >250 Deg C as per ASTM D 2863 (only for FRLS Outer Sheath)
- HCL gas emission (Max.): 20% By weight; Smoke Density : Min. Visibility 40% (only for FRLS Outer Sheath)

Norm references / Approvals

- IS 1554 (Part-I) 1988

Product Make-up

- Conductor : Annealed bare copper conductor of Class II as per IS 8130
- Insulation : PVC
- Inner Sheath :
 - i) PVC
 - ii) FRLS PVC
- Mechanical Protection :
 - i) WA - Aluminium Wire Armour
 - ii) SWA - GI wire Armour
 - iii) SSA - GI strip Armour
- Outer Sheath :
 - i) FRLS PVC
 - ii) FRLS PVC with UVAR

Technical data

- Core identification code**
As per IS 1554 (Part-I) 1988
- Conductor stranding**
Class II as per IS 8130
- Minimum bending radius**
15 Times the OD
- Nominal voltage**
1100 Volts
- Temperature range**
-5°C up to +85°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV HR FR SSA - RIY3Y2SSAY21BK				
382006610	12 X 1.5	19.7	159.8	770
382006670	12 X 2.5	22.2	261.0	965
ÖLFLEX® POWER LV HR FR SWA - RIY3Y2SWAY21BK				
382006600	2 X 1.5	13.6	26.6	392
382006601	3 X 1.5	14.1	40.0	440
382006602	4 X 1.5	15.0	53.3	500
382006605	7 X 1.5	16.8	93.2	610
382006661	3 X 2.5	15.4	65.2	522
382006662	4 X 2.5	16.4	87.0	608
382006665	7 X 2.5	18.6	152.2	760
382006739	2 X 4	16.2	69.2	575
382006754	3 X 4	16.9	103.8	650
382006780	4 X 4	18.1	138.4	745
ÖLFLEX® POWER LV HR FR SSA UVAR - RIY3Y2SSAY2UVAR1BK				
382006804	12 X 1.5	19.7	159.8	770
382006864	12 X 2.5	22.2	261.0	965
382006863	3 X 25 + 1 X 16	26.3	797.0	1,656
ÖLFLEX® POWER LV HR FR SWA UVAR - RIY3Y2SWAY2UVAR1BK				
382006795	3 X 1.5	14.1	40.0	440
382006796	4 X 1.5	15.0	53.3	500
382006855	3 X 2.5	15.4	65.2	522
382006856	4 X 2.5	16.4	87.0	608
382006948	3 X 4	16.9	103.8	650
382006974	4 X 4	18.1	138.4	745

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV HR FRLS SWA - RIY3Y2SWAYC21BK				
382006989	3 X 1.5	14.1	40.0	448
382006990	4 X 1.5	15.0	53.3	509
382007049	3 X 2.5	15.4	65.2	531
382007050	4 X 2.5	16.4	87.0	618
382007142	3 X 4	16.9	103.8	660
382007168	4 X 4	18.1	138.4	756
ÖLFLEX® POWER LV HR FRLS SWA - RIY3YC2SWAYC21BK				
382007377	3 X 1.5	14.1	40.0	452
382007378	4 X 1.5	15.0	53.3	514
382007437	3 X 2.5	15.4	65.2	537
382007438	4 X 2.5	16.4	87.0	623
382007511	3 X 4	16.9	103.8	667
382007537	4 X 4	18.1	138.4	763
ÖLFLEX® POWER LV HR FRLS SWA UVAR - RIY3Y2SWAYC2UVAR1BK				
382007183	3 X 1.5	14.1	40.0	448
382007184	4 X 1.5	15.0	53.3	509
382007243	3 X 2.5	15.4	65.2	531
382007244	4 X 2.5	16.4	87.0	618
382007336	3 X 4	16.9	103.8	660
382007362	4 X 4	18.1	138.4	756
ÖLFLEX® POWER LV HR FRLS SWA UVAR - RIY3YC2SWAYC2UVAR1BK				
382007552	3 X 1.5	14.1	40.0	452
382007553	4 X 1.5	15.0	53.3	514
382007612	3 X 2.5	15.4	65.2	537
382007613	4 X 2.5	16.4	87.0	623
382007686	3 X 4	16.9	103.8	667
382007712	4 X 4	18.1	138.4	763

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ÖLFLEX® POWER LV 2X

XLPE Insulated Heavy Duty Application FR PVC Cable As per IS 7098 (Part-I) 1988



Info

- Low voltage power cable 650/1100 V
- Double sheathed cable for heavy duty application

Benefits

- Wide range of product variants, up to 300 articles

Application range

- For main power distribution and lighting circuits in residential and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts
- For expanded temperature application

Norm references / Approvals

- IS 7098 (Part-I) 1988

Product features

- Flame retardant: According to IEC 60332-1
- UV - resistant outer sheath for outdoor application and AR best suitable anti rodent application

Product Make-up

- Conductor : Annealed bare copper conductor of Class II as per IS 8130
- Insulation : XLPE
- Inner Sheath :
 - i) PVC
 - ii) FRLS PVC
 - iii) LSZH
- Outer Sheath :
 - i) PVC
 - ii) PVC with UVAR
 - iii) FRLS PVC
 - iv) FRLS PVC with UVAR
 - v) LSZH
 - vi) LSZH with UVAR

Technical data



Core identification code
As per IS 7098 (Part-I) 1988



Conductor stranding
Class II as per IS 8130



Minimum bending radius
10 Times the OD



Nominal voltage
1100 Volts



Temperature range
-5°C up to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV 2X FR - RI2XY2Y21BK				
382000005	3 X 1.5	11.5	40.0	183
382000006	4 X 1.5	12.3	53.3	214
382000012	10 X 1.5	17.0	133.2	357
382000014	12 X 1.5	17.5	159.8	400
382000022	20 X 1.5	21.4	266.4	609
382000065	3 X 2.5	12.4	65.2	228
382000066	4 X 2.5	13.2	87.0	267
382000072	10 X 2.5	18.6	217.5	470
382000074	12 X 2.5	19.2	261.0	532
382000082	20 X 2.5	23.5	435.0	823
382000158	3 X 4	13.4	103.8	288
382000184	4 X 4	14.5	138.4	349
382000159	3 X 6	14.7	155.4	370
382000185	4 X 6	15.9	207.2	450
382000160	3 X 10	16.7	261.5	526
382000186	4 X 10	18.1	348.7	647
382000188	4 X 25	25.3	877.7	1,411
382000189	4 X 35	28.2	1,217.7	1,851
ÖLFLEX® POWER LV 2X FR UVAR - RI2XY2Y2UVAR1BK				
382000199	3 X 1.5	11.5	40.0	183
382000200	4 X 1.5	12.3	53.3	214
382000206	10 X 1.5	17.0	133.2	357
382000216	20 X 1.5	21.4	266.4	609
382000259	3 X 2.5	12.4	65.2	228
382000260	4 X 2.5	13.2	87.0	267
382000266	10 X 2.5	18.6	217.5	470
382000276	20 X 2.5	23.5	435.0	823
382000383	4 X 35	28.2	1,217.7	1,851
ÖLFLEX® POWER LV 2X FRLS - RI2XY2YC21BK				
382000393	3 X 1.5	11.5	40.0	191
382000394	4 X 1.5	12.3	53.3	222
382000400	10 X 1.5	17.0	133.25	369
382000402	12 X 1.5	17.5	159.8	412
382000453	3 X 2.5	12.4	65.2	237
382000454	4 X 2.5	13.2	87.0	276
382000460	10 X 2.5	18.6	217.5	483
382000462	12 X 2.5	19.2	261.0	546
382000573	4 X 6	15.9	207.2	461
382000574	4 X 10	18.1	348.7	660
382000575	4 X 16	21.2	554.8	964
382000576	4 X 25	25.3	877.7	1,432

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Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV 2X FRLS - RI2XY2YC21BK				
382000781	3 X 1.5	11.5	40.0	195
382000841	3 X 2.5	12.4	65.2	241
382000915	3 X 4	13.4	103.8	303
382000916	3 X 6	14.7	155.4	387
ÖLFLEX® POWER LV 2X FRLS UVAR - RI2XY2YC2UVAR1BK				
382000587	3 X 1.5	11.5	10.0	191
382000589	5 X 1.5	13.1	66.6	255
382000603	19 X 1.5	20.4	253.1	594
382000608	24 X 1.5	23.4	319.7	727
382000647	3 X 2.5	12.4	65.2	237
382000648	4 X 2.5	13.2	87.0	276
382000654	10 X 2.5	18.6	217.5	483
382000656	12 X 2.5	19.2	261.0	546
382000725	3 X 4	12.8	69.2	254
382000740	4 X 4	13.4	103.8	297
382000742	3 X 10	16.7	261.5	537
ÖLFLEX® POWER LV 2X FRLS UVAR - RI2XY2YC2UVAR1BK				
382001094	3 X 25	23.1	658.3	1,159
382001120	4 X 25	25.3	877.7	1,451
ÖLFLEX® POWER LV 2X LSZH - RI2XHXXH1BK				
382001131	3 X 1.5	11.5	40.0	195
382001132	4 X 1.5	12.3	53.3	226
382001138	10 X 1.5	17.0	133.2	373
382001140	12 X 1.5	17.5	159.8	416
382001191	3 X 2.5	12.4	65.2	241
382001192	4 X 2.5	13.2	87.0	281
382001208	20 X 2.5	23.5	435.0	846
382001198	10 X 2.5	18.6	217.5	487
382001284	3 X 4	13.4	103.8	303
382001310	4 X 4	14.5	138.4	365
382001287	3 X 16	19.1	416.1	770
382001312	4 X 10	18.1	348.7	670
ÖLFLEX® POWER LV 2X LSZH - RI2XHXXH1BK				
382001325	3 X 1.5	11.5	40.0	195
382001326	4 X 1.5	12.3	53.3	226
382001332	10 X 1.5	17.0	133.2	373
382001342	20 X 1.5	21.4	266.4	631
382001385	3 X 2.5	12.4	65.2	241
382001386	4 X 2.5	13.2	87.0	281
382001392	10 X 2.5	18.6	217.5	487
382001402	20 X 2.5	23.5	435.0	846
382001478	3 X 4	13.4	103.8	303
382001504	4 X 4	14.5	138.4	365
382001480	3 X 10	16.7	261.5	546
382001508	4 X 25	25.3	877.7	1,451



ÖLFLEX® POWER LV 2X ARM

XLPE Insulated Heavy Duty Application FR PVC Armoured Cable

As per IS 7098 (Part-I) 1988

Info

- Low voltage power cable 650/1100 V
- Armoured and double sheathed cable for heavy duty / direct burial application



Benefits

- Wide range of product variants, up to 300 articles
- Extra mechanical protection due to Steel Armour

Application range

- For main power distribution and lighting circuits in residential and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts
- Armoured cable best suitable for heavy duty installations
- For expanded temperature application

Norm references / Approvals

- IS 7098 (Part-I) 1988

Product features

- Flame retardant: According to IEC 60332-1

- UV - resistant outer sheath for outdoor application and AR best suitable anti rodent application

Product Make-up

- Conductor : Annealed bare copper conductor of Class II as per IS 8130
- Insulation : XLPE
- Inner Sheath :
 - i) PVC
 - ii) FRLS PVC
 - iii) LSZH
- Mechanical Protection :
 - i) WA - Aluminium Wire Armour;
 - ii) SWA - GI wire Armour;
 - iii) SSA - GI strip Armour
- Outer Sheath :
 - i) PVC
 - ii) PVC with UVAR
 - iii) FRLS PVC
 - iv) FRLS PVC with UVAR
 - v) LSZH
 - vi) LSZH with UVAR

Technical data

- Core identification code**
As per IS 7098 (Part-I) 1988
- Conductor stranding**
Class II as per IS 8130
- Minimum bending radius**
15 Times the OD
- Nominal voltage**
1100 Volts
- Temperature range**
-5°C up to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV 2X FR SSA - RI2XY2SSAY21BK				
382001528	12 X 1.5	18.5	159.8	668
382001532	16 X 1.5	20.5	213.1	803
382001540	24 X 1.5	24.4	319.7	1072
382001588	12 X 2.5	20.6	261.0	843
382001700	4 X 10	19.5	348.7	933
382001701	4 X 16	22.2	554.8	1,262
382001702	4 X 25	26.3	877.7	1,823
382001703	4 X 35	29.2	1,217.7	2,309
ÖLFLEX® POWER LV 2X FR SSA - RI2XY2SSAY21BK				
382001518	2 X 1.5	13.2	26.6	364
382001519	3 X 1.5	13.7	40.0	409
382001520	4 X 1.5	14.5	53.3	451
382001521	5 X 1.5	15.3	66.6	506
382001522	6 X 1.5	16.2	79.9	531
382001523	7 X 1.5	16.2	93.2	550
382001525	9 X 1.5	18.6	119.9	685
382001524	8 X 1.5	17.6	106.6	620
382001526	10 X 1.5	19.6	133.2	741
382001578	2 X 2.5	14.0	43.5	422
382001579	3 X 2.5	14.6	65.2	477
382001580	4 X 2.5	15.4	87.0	527
382001672	3 X 4	15.6	103.8	560
382001698	4 X 4	16.7	138.4	644
382001673	3 X 6	16.9	155.4	677
382001699	4 X 6	18.1	207.2	780
382001674	3 X 10	19.3	261.5	897
ÖLFLEX® POWER LV 2X FR SSA UVAR - RI2XY2SSAY2UVAR1BK				
382001726	16 X 1.5	20.5	213.1	803
382001742	32 X 1.5	26.5	426.2	1,294
382001869	3 X 16	20.5	416.1	1,055
382001895	4 X 16	22.2	554.8	1,262

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV 2X FR SWA UVAR - RI2XY2SWAY2UVAR1BK				
382001712	2 X 1.5	13.2	26.6	364
382001714	4 X 1.5	14.5	53.3	451
382001713	3 X 1.5	13.7	40.0	409
382001773	3 X 2.5	14.6	65.2	477
382001774	4 X 2.5	15.4	87.0	527
382001866	3 X 4	15.6	103.8	560
382001892	4 X 4	16.7	138.4	644
382001867	3 X 6	16.9	155.4	677
ÖLFLEX® POWER LV 2X LSZH SSA - RI2XHXSAY21BK				
382002662	20 X 1.5	22.9	266.4	1,794
382002722	20 X 2.5	25.0	435.0	2,122
382002826	4 X 10	20.0	348.7	1,654
ÖLFLEX® POWER LV 2X LSZH SWA - RI2XHXSAY21BK				
382002652	10 X 1.5	20.1	133.2	1,461
382002645	3 X 1.5	14.2	40.0	1,575
382002646	4 X 1.5	15.0	53.3	1,704
382002704	2 X 2.5	14.5	43.5	1,622
382002705	3 X 2.5	15.1	65.2	1,742
382002706	4 X 2.5	15.9	87.0	1,879
382002783	2 X 4	15.5	69.2	1,816
382002798	3 X 4	16.1	103.8	1,935
382002824	4 X 4	17.2	138.4	1,844
382002800	3 X 10	19.8	261.5	2,294
ÖLFLEX® POWER LV 2X LSZH UVAR - RI2XHXSAY2UVAR1BK				
382001517	4 X 300	59.1	10,563.0	12,166
382001503	3 X 400 + 1 X 185	65.9	11,731.9	13,618
ÖLFLEX® POWER LV 2X LSZH SSA UVAR - RI2XHXSAY2UVAR1BK				
382003020	4 X 10	20.0	348.7	1,654
382002995	3 X 16	21.0	416.1	1,823
ÖLFLEX® POWER LV 2X LSZH SWA UVAR - RI2XHXSAY2UVAR1BK				
382002839	3 X 1.5	14.2	40.0	1,575
382002840	4 X 1.5	15.0	53.3	1,704
382002899	3 X 2.5	15.1	65.2	1,742
382002900	4 X 2.5	15.9	87.0	1,879
382003018	4 X 4	17.2	138.4	1,844

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ÖLFLEX® POWER LV (N)YY

Low voltage power cables



Info

- Low voltage power cable 0.6/1 kV
- Unarmoured, PVC/PVC

Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply

Product features

- Flame-retardant acc. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Norm references / Approvals

- Based on IEC 60502-1

Product Make-up

- Stranded or solid plain annealed copper wire in circular or sectorial shape conductor
- PVC core insulation
- PVC sheath
- Sheath colour, gn/ye for single core and black for multicore

Technical data

	Classification ETIM 5.0 Class-Description: Low voltage power cable ETIM 5.0 Class-ID: EC000057
	Core identification code acc. to BS 7671:2004
	Conductor stranding acc. to IEC 60228 Cl.1 and Cl. 2
	Minimum bending radius Fixed installation: 8 x cable diameter
	Nominal voltage U ₀ /U: 600/1000 V
	Temperature range Fixed installation: -20°C to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV (N)YY - Solid Conductor (Class 1)				
3800100	1 X 1.5	6.0	14.0	52
3800108	1 X 2.5	6.4	22.5	65
3800116	1 X 4	7.3	36.0	95
3800102	2 X 1.5	10.0	28.5	135
3800110	2 X 2.5	10.8	45.8	170
3800118	2 X 4	12.5	73.6	240
3800104	3 X 1.5	10.5	42.8	160
3800112	3 X 2.5	11.4	68.6	200
3800120	3 X 4	13.2	110.4	290
3800106	4 X 1.5	11.3	57.0	185
3800114	4 X 2.5	12.3	91.5	240
3800122	4 X 4	14.4	147.2	350
3804001	5 X 1.5	12.2	69.8	203
3804003	5 X 2.5	13.4	115.0	275
3804004	5 X 4	16.0	184.0	408
ÖLFLEX® POWER LV (N)YY - Stranded Conductor (Class 2)				
3800101	1 X 1.5	6.2	14.0	55
3800109	1 X 2.5	6.7	22.4	70
3800117	1 X 4	7.6	36.0	100
3800124	1 X 6	8.2	54.0	125
3800128	1 X 10	9.2	90.0	175
3800133	1 X 16	10.2	144.0	240
3800138	1 X 25	11.9	228.0	350
3800146	1 X 35	13.1	317.8	460
3800154	1 X 50	14.8	454.0	595
3800159	1 X 70	16.6	635.6	810
3800164	1 X 95	19.2	862.6	1,110
3800103	2 X 1.5	10.4	28.5	145
3800111	2 X 2.5	11.5	45.8	180
3800119	2 X 4	13.5	73.6	255
3800125	2 X 6	15.0	110.4	285
3800129	2 X 10	17.0	184.0	395
3800134	2 X 16	19.0	294.4	590
3800139	2 X 25	22.0	465.0	900
3800148	2 X 35 (S)	20.0	644.0	930
3800155	2 X 50 (S)	23.0	920.0	1,260
3800160	2 X 70 (S)	26.0	1,288.0	1,700
3800165	2 X 95 (S)	30.0	1,748.0	2,310

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800105	3 X 1.5	11.5	42.8	165
3800113	3 X 2.5	12.0	68.6	210
3800121	3 X 4	14.0	110.4	305
3800126	3 X 6	15.5	165.6	370
3800130	3 X 10	17.5	278.0	515
3800135	3 X 16	20.0	441.6	740
3800141	3 X 25	24.0	697.5	1,160
3800150	3 X 35 (S)	23.0	966.0	1,330
3800156	3 X 50 (S)	26.0	1,380.0	1,750
3800161	3 X 70 (S)	29.0	1,932.0	2,435
3800166	3 X 95 (S)	35.0	2,622.0	3,360
3800107	4 X 1.5	12.0	57.0	200
3800115	4 X 2.5	13.0	91.5	255
3800123	4 X 4	15.5	147.2	375
3800127	4 X 6	17.0	220.8	455
3800132	4 X 10	19.0	368.0	665
3800137	4 X 16	22.0	588.8	930
3800144	4 X 25	25.6	930.0	1,465
3800151	3 X 35 + 16	24.7	1,116.2	1,570
3800153	4 X 35 (S)	26.0	1,288.0	1,740
3800157	3 X 50 + 25	28.3	1,544.8	2,220
3800158	4 X 50 (S)	29.0	1,840.0	2,320
3800162	3 X 70 + 35	32.0	2,219.3	2,930
3800163	4 X 70 (S)	33.0	2,576.0	3,215
3800167	3 X 95 + 50	37.5	3,066.7	3,530
3800168	4 X 95 (S)	39.0	3,496.0	4,400
3804002	5 X 1.5	12.4	69.8	2,025
3800970	5 X 2.5	13.4	115.0	275
3800971	5 X 4	16.0	184.0	408
3804005	5 X 6	17.5	276.0	545
3804006	5 X 10	20.0	460.0	811
3804007	5 X 16	23.0	736.0	1,195
3804008	5 X 25	27.6	1,162.5	1,814
3800972	5 X 35	31.0	1,627.5	2,450
3804009	7 X 1.5	13.2	97.7	260
3804010	12 X 1.5	17.0	167.4	408
3804018	7 X 2.5	14.5	161.0	356
3804019	12 X 2.5	18.7	276.0	571

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ÖLFLEX® POWER LV (N)YYRY

Low voltage power cables



Info

- Low voltage power cable 0.6/1 kV
- Armoured, PVC/PVC/SWA/PVC



Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts

Product features

- Flame-retardant acc. to IEC 60332-1-2

Norm references / Approvals

- Based on IEC 60502-1

Product Make-up

- Stranded plain annealed copper wires in circular shape conductor
- PVC core insulation
- PVC inner sheath, black
- Galvanized steel wire armoured
- PVC outer sheath, black

Technical data

- Classification**
ETIM 5.0 Class-Description: Low voltage power cable
ETIM 5.0 Class-ID: EC000057
- Core identification code**
acc. to BS 7671:2004
- Conductor stranding**
acc. to IEC 60228 Cl. 2
- Minimum bending radius**
10 x cable diameter
- Nominal voltage**
U₀/U: 600/1000 V
- Temperature range**
Fixed installation: -20°C to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV (N)YYRY				
3803077	2 X 1.5	13.8	28.5	335
3800199	3 X 1.5	14.3	42.8	375
3800200	4 X 1.5	15.1	57.0	425
3800201	5 X 1.5	16.0	70.0	480
3800202	7 X 1.5	17.7	98.0	644
3800203	10 X 1.5	21.0	140.0	835
3800204	12 X 1.5	21.5	168.0	899
3803078	14 X 1.5	23.0	196.0	1,113
3803079	16 X 1.5	24.0	224.0	1,188
3800205	19 X 1.5	24.8	266.0	1,305
3802972	21 X 1.5	26.0	294.0	1,398
3800206	27 X 1.5	28.5	378.0	1,656
3800207	37 X 1.5	31.5	518.0	2,024
3800209	3 X 2.5	15.2	68.4	439
3800210	4 X 2.5	16.2	91.2	503
3800211	5 X 2.5	17.9	114.0	670
3800212	7 X 2.5	19.0	158.2	776
3800213	10 X 2.5	23.3	226.0	1,145
3800214	12 X 2.5	24.0	271.2	1,240
3800215	19 X 2.5	27.0	442.0	1,630
3802974	21 X 2.5	28.1	488.0	1,750
3800216	27 X 2.5	31.3	628.0	2,115
3800217	37 X 2.5	36.0	860.0	2,891
3800219	3 X 4	18.0	110.4	666
3800220	4 X 4	19.2	147.2	770
3800221	5 X 4	20.4	184.0	874
3800222	7 X 4	21.8	257.6	1,039
3800223	10 X 4	27.1	368.0	1,532
3800224	12 X 4	27.8	441.6	1,691
3800225	19 X 4	32.0	699.2	2,292
3800226	27 X 4	39.0	993.6	3,330
3800227	37 X 4	43.1	1,361.6	4,147
3802971	2 X 6	18.4	110.4	672
3800229	3 X 6	19.2	165.6	786
3800230	4 X 6	20.6	220.8	916
3800231	5 X 6	22.0	276.0	1,058
3800232	3 X 10	21.2	277.8	1,009
3800233	4 X 10	23.5	370.4	1,333
3800234	5 X 10	25.2	370.4	1,536
3803075	4 X 16	26.1	588.8	1,736
3803076	4 X 25	30.5	926.0	2,379

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For current information see: <http://e.lapp.com/ap/>

ÖLFLEX® POWER LV (N)2XY

XLPE insulation



Info

- Low voltage power cable 0.6/1 kV
- Unarmoured, XLPE/PVC

Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply

Product features

- Flame-retardant acc. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Norm references / Approvals

- Based on IEC 60502-1

Product Make-up

- Stranded plain annealed copper wires in circular shape conductor
- XLPE core insulation
- PVC sheath, black

Technical data



Classification

ETIM 5.0 Class-Description: Low voltage power cable
ETIM 5.0 Class-ID: EC000057



Core identification code

acc. to BS 7671:2004



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

Fixed installation: 8 x cable diameter



Nominal voltage

U₀/U: 600/1000 V



Temperature range

Fixed installation: -40°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV (N)2XY				
3800250	1 X 16	9.4	147.2	205
3800254	1 X 25	11.1	230.0	309
3800262	1 X 35	12.4	322.0	412
3800270	1 X 50	14.0	460.0	540
3800275	1 X 75	16.0	644.0	760
3800280	1 X 90	18.0	874.0	1,020
3800285	1 X 120	20.0	1,104.0	1,270
3800290	1 X 150	22.0	1,380.0	1,560
3800295	1 X 185	24.7	1,702.0	1,930
3800300	1 X 240	27.7	2,208.0	2,510
3800305	1 X 300	30.6	2,760.0	3,120
3800235	2 X 1.5	10.0	28.2	130
3800238	2 X 2.5	10.8	46.0	165
3800241	2 X 4	11.9	73.6	210
3800244	2 X 6	13.1	110.4	270
3800247	2 X 10	14.9	184.0	390
3800251	2 X 16	17.2	294.4	450
3800255	2 X 25	20.5	460.0	820
3800264	2 x 35 (S)	18.8	651.0	880
3800271	2 x 50 (S)	21.0	930.0	1,140
3800276	2 x 70 (S)	24.0	1,302.0	1,560
3800281	2 x 95 (S)	26.9	1,767.0	2,130
3800286	2 x 120 (S)	29.9	2,232.0	2,640
3800291	2 x 150 (S)	33.4	2,790.0	3,270
3800296	2 x 185 (S)	37.1	3,441.0	4,040
3800301	2 x 240 (S)	45.0	4,464.0	5,250
3800236	3 x 1.5	10.5	42.3	150
3800239	3 x 2.5	11.4	69.0	195
3800242	3 x 4	12.6	110.4	255
3800245	3 x 6	13.8	165.6	330
3800248	3 x 10	15.8	276.0	490
3800252	3 x 16	18.3	441.6	700
3800257	3 x 25	21.8	690.0	1,000
3800266	3 x 35 (S)	22.0	976.5	1,180
3800272	3 x 50 (S)	24.0	1,395.0	1,600
3800277	3 x 70 (S)	28.0	1,953.0	2,240
3800282	3 x 95 (S)	31.0	2,650.5	3,050
3800287	3 x 120 (S)	35.5	3,348.0	3,800
3800292	3 x 150 (S)	38.5	4,185.0	4,640
3800297	3 x 185 (S)	43.0	5,161.5	5,870
3800302	3 x 240 (S)	48.0	6,696.0	7,670

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800237	4 x 1.5	11.5	56.4	175
3800240	4 x 2.5	12.5	92.0	225
3800243	4 x 4	13.8	147.2	305
3800246	4 x 6	15.2	220.8	405
3800249	4 x 10	17.5	368.0	600
3800253	4 x 16	20.0	588.8	870
3800260	4 x 25	24.0	920.0	1,325
3800267	3 x 35 + 16	24.8	1,113.2	1,450
3800269	4 x 35 (S)	26.5	1,288.0	1,600
3800273	3 x 50 + 25	28.5	1,610.0	2,050
3800274	4 x 50 (S)	30.1	1,840.0	2,200
3800278	3 x 70 + 35	33.2	2,254.0	2,750
3800279	4 x 70 (S)	35.4	2,576.0	3,050
3800283	3 x 95 + 50	37.8	3,082.0	3,750
3800284	4 x 95 (S)	40.2	3,496.0	4,070
3800288	3 x 120 + 70	42.6	3,956.0	4,750
3800289	4 x 120 (S)	44.9	4,416.0	5,195
3800293	3 x 150 + 70	46.3	4,784.0	5,700
3800294	4 x 150 (S)	49.8	5,520.0	6,350
3800298	3 x 185 + 95	52.1	5,980.0	7,705
3800299	4 x 185 (S)	55.8	6,808.0	7,890
3800303	3 x 240 + 120	58.6	7,728.0	9,250
3800304	4 x 240 (S)	62.9	8,832.0	10,400
3800308	3 x 300 + 150	65.0	9,660.0	11,500
3800309	4 x 300 (S)	69.7	11,040.0	12,810
3804030	5 x 1.5	11.7	70.5	192
3803080	5 x 2.5	12.9	115.0	255
3803081	5 x 4	14.4	184.0	260
3803082	5 x 6	16.0	276.0	475
3804031	5 x 10	18.4	460.0	758
3804032	5 x 16	21.3	736.0	1,135
3804033	5 x 25	26.0	1,150.0	1,742
3804034	5 x 35	29.2	1,610.0	2,355
3804035	7 x 1.5	12.7	98.7	250
3803084	7 G 1.5	12.7	98.7	250
3804036	12 x 1.5	16.2	169.2	375
3803085	12 G 1.5	16.2	169.2	375
3804044	7 x 2.5	14.0	161.0	320
3803088	7 G 2.5	14.0	161.0	320
3804045	12 x 2.5	18.0	276.0	475
3803089	12 G 2.5	18.0	276.0	475

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ÖLFLEX® POWER LV (N)2XYRY

Low voltage power cables

Info

- Low voltage power cable 0.6 / 1 kV
- Multicore, armoured (SWA) XLPE / PVC / SWA / PVC



Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply

Product features

- Flame-retardant acc. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Norm references / Approvals

- Based on IEC 60502-1

Product Make-up

- Stranded plain annealed copper wires in circular shape conductor
- XLPE core insulation
- PVC inner sheath, black
- Galvanized steel wire armoured
- PVC outer sheath, black

Technical data

	Classification ETIM 5.0 Class-Description: Low voltage power cable ETIM 5.0 Class-ID: EC000057
	Core identification code acc. to BS 7671:2004
	Conductor stranding acc. to IEC 60228 Cl. 2
	Minimum bending radius 10 x cable diameter
	Nominal voltage U ₀ /U: 600/1000 V
	Temperature range Fixed installation: -40°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV (N)2XYRY				
3800330	2 X 1.5	13.4	28.2	323
3800331	3 X 1.5	14.0	42.3	356
3800332	4 X 1.5	14.6	56.4	398
3804054	5 X 1.5	15.5	70.5	445
3804062	7 X 1.5	17.1	98.7	607
3804063	12 X 1.5	20.6	169.2	837
3804064	14 X 1.5	21.4	197.4	909
3804065	16 X 1.5	23.0	225.6	1,118
3804066	19 X 1.5	23.9	267.9	1,210
3804067	24 X 1.5	26.8	338.4	1,451
3800333	2 X 2.5	14.3	46.0	374
3800334	3 X 2.5	14.8	69.0	418
3800335	4 X 2.5	15.7	92.0	478
3804055	5 X 2.5	17.4	115.0	627
3804071	7 X 2.5	18.4	161.0	736
3804072	12 X 2.5	23.1	276.0	1,176
3804073	14 X 2.5	24.0	322.0	1,286
3804074	16 X 2.5	25.0	368.0	1,380
3804075	19 X 2.5	26.0	437.0	1,525
3804076	24 X 2.5	29.6	552.0	1,860
3800336	2 X 4	15.4	73.6	445
3800337	3 X 4	16.0	110.4	507
3800338	4 X 4	17.7	147.2	679
3804056	5 X 4	18.8	184.0	774
3800339	2 X 6	17.2	110.4	610
3800340	3 X 6	18.0	165.6	710
3800341	4 X 6	19.1	220.8	829
3804057	5 X 6	20.4	276.0	950
3800342	2 X 10	19.1	184.0	775
3800343	3 X 10	20.0	276.0	925
3800344	4 X 10	21.4	368.0	1,093
3804058	5 X 10	23.6	460.0	1,406
3800345	2 X 16	21.2	294.4	980
3800346	3 X 16	23.0	441.6	1,350
3800347	4 X 16	24.7	588.8	1,600
3804059	5 X 16	26.5	736.0	1,867
3800348	2 X 25	25.0	460.0	1,472
3800350	3 X 25	26.7	690.0	1,840

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800353	4 X 25	28.9	920.0	2,228
3804060	5 X 25	31.4	1,150.0	2,636
3800356	2 X 35 (S)	27.7	644.0	1,815
3800358	3 X 35 (S)	29.5	966.0	2,290
3800359	3 X 35 + 16	30.1	1,113.2	2,521
3800361	4 X 35 (S)	31.0	1,288.0	2,817
3804061	5 X 35	35.7	1,610.0	3,626
3800362	2 X 50 (S)	30.8	920.0	2,287
3800363	3 X 50 (S)	32.7	1,380.0	2,958
3800364	3 X 50 + 25	34.8	1,610.0	3,560
3800365	4 X 50 (S)	37.0	1,840.0	3,990
3800366	2 X 70 (S)	36.0	1,288.0	3,205
3800367	3 X 70 (S)	38.7	1,932.0	4,205
3800368	3 X 70 + 35	40.0	2,254.0	4,688
3800369	4 X 70 (S)	42.2	2,576.0	5,222
3800370	2 X 95 (S)	40.5	1,748.0	4,040
3800371	3 X 95 (S)	43.0	2,622.0	5,306
3800372	3 X 95 + 50	44.7	3,082.0	5,984
3800373	4 X 95 (S)	48.2	3,496.0	7,064
3800374	2 X 120 (S)	44.2	2,208.0	4,850
3800375	3 X 120 (S)	48.2	3,312.0	6,830
3800376	3 X 120 + 70	51.0	3,956.0	7,869
3800377	4 X 120 (S)	53.1	4,416.0	8,609
3800378	2 X 150 (S)	49.8	2,760.0	6,274
3800379	3 X 150 (S)	53.0	4,140.0	8,262
3800380	3 X 150 + 70	54.6	4,784.0	9,172
3800381	4 X 150 (S)	58.2	5,520.0	10,352
3800382	2 X 185 (S)	54.8	3,404.0	7,485
3800383	3 X 185 (S)	58.3	5,106.0	9,904
3800384	3 X 185 + 95	60.7	5,980.0	11,204
3800385	4 X 185 (S)	64.6	6,808.0	12,530
3800386	2 X 240 (S)	61.2	4,416.0	9,260
3800387	3 X 240 (S)	65.2	6,624.0	12,341
3800388	3 X 240 + 120	67.3	7,728.0	13,891
3800389	4 X 240 (S)	71.7	8,832.0	15,668
3800390	2 X 300 (S)	66.8	5,580.0	11,064
3800391	3 X 300 (S)	71.2	8,280.0	14,900
3800392	3 X 300 + 150	75.0	9,660.0	17,661
3800393	4 X 300 (S)	80.3	11,040.0	19,982

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ÖLFLEX® POWER LV (N)2XYRY SC

Low voltage power cables



Info

- Low voltage power cable 0.6/1 kV
- Single core, Armoured (AWA)XLPE/PVC/AWA/PVC

Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts

Product features

- Flame-retardant acc. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Norm references / Approvals

- Based on IEC 60502-1

Product Make-up

- Stranded plain annealed copper wires in circular shape conductor
- XLPE core insulation
- PVC outer sheath, black
- PVC inner sheath, black
- Aluminium wire armoured

Technical data



Classification

ETIM 5.0 Class-Description: Low voltage power cable
ETIM 5.0 Class-ID: EC000057



Conductor stranding

acc. to IEC 60228 Cl.2



Minimum bending radius

10 x cable diameter



Nominal voltage

U₀/U: 600/1000 V



Temperature range

Fixed installation: -40°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® POWER LV (N)2XYRY SC				
3800315	1 X 25	15.8	225.0	645
3800316	1 X 35	17.5	315.0	888
3800317	1 X 50	19.0	450.0	1,107
3800318	1 X 70	21.0	630.0	1,418
3800319	1 X 95	23.6	855.0	1,913
3800320	1 X 120	25.4	1,080.0	2,275
3800321	1 X 150	27.3	1,350.0	2,718
3800322	1 X 185	29.8	1,665.0	3,245
3800323	1 X 240	32.8	2,160.0	4,021
3800324	1 X 300	36.8	2,760.0	5,141
3800325	1 X 400	40.0	3,600.0	6,474
3800326	1 X 500	44.1	4,500.0	7,872
3800327	1 X 630	50.2	5,670.0	10,177
3800328	1 X 800	55.3	7,200.0	12,494
3800329	1 X 1000	61.0	9,000.0	15,268

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ÖLFLEX® INFRA FR

ISI Marked PVC insulation single core



Info

- Standard lengths available in 90m, 180m, 270m
- FR-LSH and HFFR versions available upon request



Benefits

- ISI Marked

Application range

- Building wire for installation on wall surface or in concealed conduits
- For lighting and power applications in Buildings-Residential and Commercial, Hotels, Hospitals & IT Parks
- For use in dry rooms

Product features

- Flame retardant- IEC 60332.1/ IS 10810-53

- Higher conductivity
- Insulation of PVC Type D, with additional LAPP special properties

Norm references / Approvals

- IS 694 : 2010

Product Make-up

- Conductor: Stranded Annealed Bare copper
- Core Insulation : Lapp special PVC

Technical data

- Conductor stranding**
Class V as per IS 8130/IEC 60228
- Minimum bending radius**
Static-6 x cable diameter
Occasional flexing- 8 x cable diameter
- Nominal voltage**
1100 Volts
- Temperature range**
-5°C to 70°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® INFRA FR					
8010012090	1 X 0.75	2.8	black	7.2	12
8010013090	1 X 1.0	3.0	black	9.6	15
8010023090	1 X 1.0	3.0	blue	9.6	15
8010123090	1 X 1.0	3.0	green	9.6	15
8010063090	1 X 1.0	3.0	grey	9.6	15
8010043090	1 X 1.0	3.0	red	9.6	15
8010053090	1 X 1.0	3.0	white	9.6	15
8010113090	1 X 1.0	3.0	yellow	9.6	15
8020011090	1 X 1.5	3.4	black	14.4	20
8020021090	1 X 1.5	3.4	blue	14.4	20
8020121090	1 X 1.5	3.4	green	14.4	20
8020001090	1 X 1.5	3.4	green-yellow	14.4	20
8020061090	1 X 1.5	3.4	grey	14.4	20
8020041090	1 X 1.5	3.4	red	14.4	20
8020051090	1 X 1.5	3.4	white	14.4	20
8020111090	1 X 1.5	3.4	yellow	14.4	20
8020015090	1 X 1.0	7.0	black	96.0	120
8020012090	1 X 2.5	4.1	black	24.0	33
8020022090	1 X 2.5	4.1	blue	24.0	33
8020042090	1 X 2.5	4.1	red	24.0	33

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AS ORANGE / BLACK CIRCULAR

PVC insulated / sheathed cables



Info

- Multicore power cable
- Complies to AS/NZ Standard

Benefits

- Wide range of application opportunities

Application range

- For fixed installation in power and lighting circuits in commercial buildings
- Plant engineering and construction, industrial machinery, power station
- Suitable for outdoor used under direct sunlight

Product features

- Flame retardant acc. to AS/NZS 1660.5.6 resp. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Product Make-up

- Stranded plain annealed copper wire
- PVC (V-90) core insulation
- PVC (5V-90) outer sheath, orange
- Also available in black outer sheath

Technical data

	Classification ETIM 5.0 Class-Description: Low voltage power cable ETIM 5.0 Class-ID: EC000057
	Core identification code acc. to AS/NZS 5000.1
	Conductor stranding Stranded wire acc. to AS/NSZ 1125 Cl. 2
	Minimum bending radius Fixed installation: 4 x cable diameter
	Nominal voltage Reduced Earth: 450/750V ($\leq 6\text{mm}^2$) 600/1000V ($\geq 10\text{mm}^2$) Full Earth: 600/1000V
	Temperature range Fixed installation: -20°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
AS ORANGE / BLACK Circular - 450/750 V					
3801816	2x1.5+E	8.4	orange	43.2	105
3803840	2x1.5+E	8.4	black	43.2	105
3801831	3x1.5+E	9.3	orange	57.6	130
3803852	3x1.5+E	9.3	black	57.6	130
3801851	4x1.5+E	10.1	orange	72.0	155
3803864	4x1.5+E	10.1	black	72.0	155
3801817	2x2.5+E	10.1	orange	72.0	153
3803841	2x2.5+E	10.1	black	72.0	153
3801832	3x2.5+E	10.9	orange	96.0	192
3803853	3x2.5+E	10.9	black	96.0	192
3801852	4x2.5+E	11.9	orange	120.0	238
3803865	4x2.5+E	11.9	black	120.0	238
3801818	2x4+2.5E	11.1	orange	100.8	199
3803842	2x4+2.5E	11.1	black	100.8	199
3801833	3x4+2.5E	12.3	orange	139.2	266
3803854	3x4+2.5E	12.3	black	139.2	266
3801853	4x4+2.5E	13.7	orange	177.6	328
3803866	4x4+2.5E	13.7	black	177.6	328
3801819	2x6+2.5E	12.0	orange	139.2	258
3803843	2x6+2.5E	12.0	black	139.2	258
3801834	3x6+2.5E	13.6	orange	196.8	345
3803855	3x6+2.5E	13.6	black	196.8	345
3801854	4x6+2.5E	15.1	orange	254.4	440
3803867	4x6+2.5E	15.1	black	254.4	440
AS ORANGE / BLACK Circular - 600/1000V, Full Earth					
3801960	2x1.5+E	10.5	orange	43.2	142
3803902	2x1.5+E	10.5	black	43.2	142
3801964	3x1.5+E	11.3	orange	57.6	172
3803906	3x1.5+E	11.3	black	57.6	172
3801968	4x1.5+E	12.2	orange	72.0	203
3803910	4x1.5+E	12.2	black	72.0	203
3801961	2x2.5+E	11.4	orange	72.0	187
3803903	2x2.5+E	11.4	black	72.0	187
3801965	3x2.5+E	12.4	orange	96.0	231
3803907	3x2.5+E	12.4	black	96.0	231
3801969	4x2.5+E	13.5	orange	120.0	276
3803911	4x2.5+E	13.5	black	120.0	276

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
AS ORANGE / BLACK Circular - 600/1000V, Reduced Earth					
3801962	2x4+2.5E	12.9	orange	100.8	243
3803904	2x4+2.5E	12.9	black	100.8	243
3801963	2x6+2.5E	13.7	orange	139.2	301
3803905	2x6+2.5E	13.7	black	139.2	301
3801820	2x10+4E	15.4	orange	230.4	431
3803844	2x10+4E	15.4	black	230.4	431
3801821	2x16+6E	17.4	orange	364.8	616
3803845	2x16+6E	17.4	black	364.8	616
3801822	2x25+6E	20.3	orange	537.6	868
3803846	2x25+6E	20.3	black	537.6	868
3801823	2x35+10E	22.6	orange	768.0	1,183
3803847	2x35+10E	22.6	black	768.0	1,183
3801824	2x50+16E	25.7	orange	1,113.6	1,647
3803848	2x50+16E	25.7	black	1,113.6	1,647
3801966	3x4+2.5E	14.2	orange	139.2	313
3803908	3x4+2.5E	14.2	black	139.2	313
3801967	3x6+2.5E	15.3	orange	196.8	397
3803909	3x6+2.5E	15.3	black	196.8	397
3801835	3x10+4E	17.3	orange	326.4	578
3803856	3x10+4E	17.3	black	326.4	578
3801836	3x16+6E	19.8	orange	518.4	838
3803857	3x16+6E	19.8	black	518.4	838
3801837	3x25+6E	22.7	orange	777.6	1,211
3803858	3x25+6E	22.7	black	777.6	1,211
3801838	3x35+10E	25.6	orange	1,104.0	1,648
3803859	3x35+10E	25.6	black	1,104.0	1,648
3801839	3x50+16E	29.5	orange	1,593.6	2,314
3803860	3x50+16E	29.5	black	1,593.6	2,314
3801855	4x10+4E	19.1	orange	422.4	726
3803868	4x10+4E	19.1	black	422.4	726
3801856	4x16+6E	21.7	orange	672.0	1,061
3803869	4x16+6E	21.7	black	672.0	1,061
3801857	4x25+6E	26.1	orange	1,017.6	1,581
3803870	4x25+6E	26.1	black	1,017.6	1,581
3801858	4x35+10E	28.7	orange	1,440.0	2,114
3803871	4x35+10E	28.7	black	1,440.0	2,114
3801859	4x50+16E	33.3	orange	2,073.6	2,983
3803872	4x50+16E	33.3	black	2,073.6	2,983

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ÖLFLEX® FLAT TPS

Flat thermoplastic sheathed cable



Info

- Rated voltage U_0/U : 450/750 V

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LAPP KABEL STUTTGART ÖLFLEX® FLAT TPS



Benefits

- Easy tear PVC sheath to save time when stripping
- Available in 100m and 200m plastic reels

Application range

- Mechanically light duty cable, recommended for residential and light commercial power distribution requirements
- Fixed wiring installation for power circuits in domestic, industrial and commercial situations
- White sheathed commonly used for mains, blue for air-conditioning units, yellow for switching applications

Product features

- Flame retardant according to IEC 60332-1-2

Norm references / Approvals

- Based on AS/NZS 5000.2

Product Make-up

- Bare copper wires
- PVC core insulation
- PVC outer sheath
- Colours: White, blue or yellow

Technical data



Conductor stranding

1mm² phase core – Solid bare copper, Class 1
All other cores – Stranded bare copper, Class 2
In accordance to AS/NZS 1125



Minimum bending radius

12 x cable diameter



Rated voltage

U_0/U : 450/750 V



Test voltage

1.8 kV



Temperature range

Fixed installation: -15°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® FLAT TPS					
8100701	2X1+1G1	8.9 × 4.3	White	28.8	70
8100702	2X1.5+1G1.5	9.8 × 4.5	White	43.2	87
8100703	2X2.5+1G2.5	12.2 × 5.4	White	72.0	136
8100704	2X4+1G2.5	13.9 × 6.4	White	100.8	190
8100705	2X6+1G2.5	14.9 × 6.9	White	139.2	235
8100706	2X10+1G4	18.5 × 8.4	White	230.4	370
8100707	2X16+1G6	21.3 × 9.6	White	364.8	530
8100708	3X1+1G1	11.1 × 4.2	White	38.4	88
8100709	3X1.5+1G1.5	12.4 × 4.4	White	57.6	109
8100710	3X2.5+1G2.5	15.4 × 5.3	White	96.0	175
8100711	3X4+1G2.5	17.9 × 6.3	White	139.2	247
8100712	3X6+1G2.5	19.5 × 6.8	White	196.8	314
8100713	3X10+1G4	24.4 × 8.3	White	326.4	500
8100714	3X16+1G6	28.2 × 9.5	White	518.4	722
8100719	3X1.5+1G1.5	12.4 × 4.4	Blue	57.6	109
8100715	3X1	8.9 × 4.3	Yellow	28.8	70
8100716	3X1.5	9.8 × 4.5	Yellow	43.2	87
8100717	3X2.5	12.2 × 5.4	Yellow	72.0	136
8100718	3 X 4	14.0 × 6.5	Yellow	115.2	187

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ÖLFLEX® POWER NS

Neutral Wire Screened Cable

LAPP KABEL STUTTGART ÖLFLEX® POWER NS



Info

- Rated voltage U_0/U : 0.6/1 kV

Benefits

- Neutral wire screened cables provide protection against the hazards of electrical shock
- 3.2mm sheath version suitable for direct burial

Application range

- Industrial, commercial and domestic applications
- For use in various situations to supply main power from point of supply to buildings, equipment, shed
- Switch board to main control cabinet, main between floors and buildings, cable cabinet to motor

Product features

- Flame retardant according to IEC 60332-1-2

Norm references / Approvals

- Based on AS/NZS 4961

Product Make-up

- Stranded plain annealed copper wires
- PVC core insulation
- Neutral screen made of plain annealed copper wire
- PVC outer sheath
- Colour : black

Technical data



Conductor stranding
Stranded wire acc. to AS/NSZ 1125 Cl. 2



Minimum bending radius
12 x cable diameter



Rated voltage
0.6/1 kV



Test voltage
3.5 kV



Temperature range
Up to 75°C

Article number	Number of cores and mm ² perconductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
2-conductor Neutral Screen Cable (Single Core)				
8100661	1 X 2.5	8.6	51.0	127
8100662	1 X 4	9.5	72.1	165
8100663	1 X 8	10.2	107.2	210
8100664	1 X 10	11.9	180.2	303
8100664	1 X 16	13.3	286.1	429
2-conductor Neutral Screen Cable (Single Core) - For Direct Burial (≥ 3.2mm sheath)				
8100666	1 X 2.5	11.5	51.0	198
8100667	1 X 4	12.4	72.1	242
8100668	1 X 8	13.1	107.2	292
8100669	1 X 10	14.8	180.2	397
8100670	1 X 16	16.2	286.1	533
3-conductor Neutral Screen Flat Cable (2-cores)				
8100671	2 X 2.5	12.5 x 8.6	78.5	198
8100672	2 X 4	14.5 x 9.5	114.1	263
8100673	2 X 8	15.8 x 10.2	16.2	328
8100674	2 X 10	18.0 x 11.5	267.6	465
8100675	2 X 16	20.6 x 13.0	425.3	657
3-conductor Neutral Screen Flat Cable (2-cores) - For Direct Burial (≥ 3.2mm sheath)				
8100676	2 X 2.5	15.5 x 11.5	78.5	290
8100677	2 X 4	17.4 x 12.4	114.1	366
8100678	2 X 8	18.7 x 13.1	16.2	439
8100679	2 X 10	21.0 x 14.4	267.6	591
8100680	2 X 16	23.5 x 15.8	425.3	799
4-conductor Neutral Screen Cable (3-cores)				
8100681	3 X 2.5	12.8	111.1	254
8100682	3 X 4	14.9	162.7	347
8100683	3 X 8	16.3	229.9	437
8100684	3 X 10	18.7	379.0	623
8100685	3 X 16	21.0	567.5	851
4-conductor Neutral Screen Cable (3-cores) - For Direct Burial (≥ 3.2mm sheath)				
8100686	3 X 2.5	15.7	111.1	354
8100687	3 X 4	17.8	162.7	461
8100688	3 X 8	19.2	229.9	561
8100689	3 X 10	21.5	379.0	765
8100690	3 X 16	23.8	567.5	1,009
5-conductor Neutral Screen Cable (4-cores)				
8100691	4 X 2.5	13.8	138.7	303
8100692	4 X 4	16.2	213.5	429
8100693	4 X 8	18.6	298.6	574
8100694	4 X 10	20.3	480.8	768
8100695	4 X 16	22.8	712.0	1,047
5-conductor Neutral Screen Cable (4-cores) - For Direct Burial (≥ 3.2mm sheath)				
8100696	4 X 2.5	16.7	138.7	410
8100697	4 X 4	19.1	213.5	554
8100698	4 X 8	21.5	298.6	715
8100699	4 X 10	23.1	480.8	920
8100700	4 X 16	25.7	712.0	1,218

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ÖLFLEX® TRAIN 3GKW SC



Info

- Meets EN 50264-3-1 type M
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Benefits

- Easy to strip and to dismantle
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- Suitable for the connection of fixed and moving objects such as lamps, heating, electrical equipment, wiring of vehicles, terminal boxes and power supply

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)

- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50264-3-1, type M
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, fine wired
- Insulation : Electron beam cross-linked polyolefin copolymer
- Colour : Grey , Black or Green-yellow

Technical data



Conductor stranding

Fine wired acc. to IEC 60228 class 5



Minimum bending radius

Fixed installation : $\leq 12 : 4 \times OD / 3 \times OD^*$, $> 12 : 5 \times OD / 4 \times OD^*$, * for careful bending, once at connecting terminal



Nominal voltage

$U_0/U_{AC} 0.6 / 1.0 \text{ kV}$, $U_m \text{ AC } 1.2 \text{ kV}$, $V_0 \text{ DC } 0.9 \text{ kV}$



Temperature range

Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to + 90°C max.

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® TRAIN 3GKW SC				
85163003	1 X 1.0	2.5	9.6	14
85163004	1 X 1.5	3.0	14.4	20
85163005	1 X 2.5	3.4	24.0	30

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
- Photographs are not to scale and do not represent detailed images of the respective products.

ÖLFLEX® TRAIN 4GKW



Info

- Meets EN 50264-3-1 type OM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Benefits

- High flexibility and slim diameters enable small bending radii at fixed installation
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Excellent chemical resistance and high Flammability rating as well
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- For connection of stationary and moving parts
- Suitable for cabling of switchboards, converters, panel units and rheostatic braking blocks

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)
- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50264-3-1, type OM
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, fine wired
- Inner Insulation : Electron beam cross-linked polyolefin copolymer, Natural colour
- Outer Insulation : Electron beam cross-linked polyolefin copolymer
- Outer Insulation colour : Black or green-yellow

Technical data



Conductor stranding

Fine wired acc. to IEC 60228 class 5



Minimum bending radius

Fixed installation : $\leq 12 : 4 \times OD / 3 \times OD^*$, $> 12 : 5 \times OD / 4 \times OD^*$, * for careful bending, once at connecting terminal



Nominal voltage

$U_0/U_{AC} 1.8 / 3.0 \text{ kV}$, $U_m \text{ AC } 3.6 \text{ kV}$, $V_0 \text{ DC } 2.7 \text{ kV}$



Temperature range

Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to + 90°C max.

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX TRAIN 4GKW					
85165001	1 X 1.5	3.6	black	14.4	25
85165002	1 X 2.5	4.0	black	24.0	35
85165003	1 X 4	4.6	black	38.4	50
85165004	1 X 6	5.3	black	57.6	71
85165005	1 X 10	6.5	black	96.0	117
85165006	1 X 16	8.5	black	153.6	193
85165007	1 X 25	10.3	black	240.0	290
85165008	1 X 35	11.9	black	336.0	401
85165009	1 X 50	14.3	black	480.0	572
85165010	1 X 70	16.2	black	672.0	771
85165011	1 X 95	18.1	black	912.0	1,011

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ÖLFLEX® TRAIN GKW SC



Info

- Meets EN 50306-2 type M
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Benefits

- Easy to strip and to dismantle
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- Suitable for the connection of fixed and moving objects such as lamps, heating, electrical equipment, wiring of vehicles, terminal boxes and power supply

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)

- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50306-2, type M
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, special round conductor
- Insulation : Electron beam cross-linked polyolefin copolymer
- Colour : Grey , Black or Green-yellow

Technical data



Conductor stranding
Fine wired acc. to EN 50306-2 (SRC=Special Round Conductor)



Minimum bending radius
Fixed installation : 4 x OD, 3 x OD for careful bending, once at connecting terminal



Nominal voltage
U₀/U AC 300 / 500 V, Um AC 600V, Vo DC 450V



Temperature range
Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to + 90°C max.



ÖLFLEX® TRAIN GKW MC



Info

- Meets EN 50306-4 class P, type MM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Benefits

- Easy to strip and to dismantle
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- Suitable for the connection of fixed and moving objects such as lamps, heating, electrical equipment, wiring of vehicles, terminal boxes and power supply

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)
- No toxic gases (EN 50305, BS 6853)

- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50306-4, type MM
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, special round conductor
- Insulation : Electron beam cross-linked polyolefin copolymer
- Colour of insulation : black with white numbers
- Outer sheath : Electron beam cross-linked polyolefin copolymer
- Outer sheath colour : Black

Technical data



Conductor stranding
Fine wired acc. to EN 50306-2 (SRC=Special Round Conductor)



Minimum bending radius
Fixed installation : 4 x OD, 3 x OD for careful bending, once at connecting terminal



Nominal voltage
U₀/U AC 300 / 500 V, Um AC 600V, Vo DC 450V



Temperature range
Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to + 90°C max.



ÖLFLEX® TRAIN GWK IS MP



Info

- Meets EN 50306-4 class P, type MM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Technical data



Conductor stranding

Fine wired acc. to EN 50306-2 (SRC=Special Round Conductor)



Minimum bending radius

Fixed installation : 6 x OD, 5 x OD for careful bending, once at connecting terminal



Nominal voltage

U₀/U AC 300 / 500 V, Um AC 600V, Vo DC 450V



Temperature range

Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to +90°C max.

Benefits

- Easy to strip and to dismantle
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- Suitable for the connection of fixed and moving objects such as lamps, heating, electrical equipment, wiring of vehicles, terminal boxes and power supply

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)
- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)

- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50306-4, type MM
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, special round conductor
- Insulation : Electron beam cross-linked polyolefin copolymer
- Colour of insulation : black with white numbers
- Individual shield : Tinned copper braid
- Inner sheath : Electron beam cross-linked polyolefin copolymer, Black colour
- Outer sheath : Electron beam cross-linked polyolefin copolymer, Black colour

ÖLFLEX® TRAIN GWK C MC



Info

- Meets EN 50306-4 class P, type MM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Technical data



Conductor stranding

Fine wired acc. to EN 50306-2 (SRC=Special Round Conductor)



Minimum bending radius

Fixed installation : 4 x OD, 3 x OD for careful bending, once at connecting terminal



Nominal voltage

U₀/U AC 300 / 500 V, Um AC 600V, Vo DC 450V



Temperature range

Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to +90°C max.

Benefits

- Easy to strip and to dismantle
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- Suitable for the connection of fixed and moving objects such as lamps, heating, electrical equipment, wiring of vehicles, terminal boxes and power supply

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)
- No toxic gases (EN 50305, BS 6853)

- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50306-4, type MM
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, special round conductor
- Insulation : Electron beam cross-linked polyolefin copolymer
- Colour of insulation : black with white numbers
- Braiding : Tinned copper braid
- Outer sheath : Electron beam cross-linked polyolefin copolymer, Black colour

ÖLFLEX® TRAIN 3GKW MC



Info

- Meets EN 50264-3-2, type MM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Benefits

- Easy to strip and to dismantle
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- Suitable for the connection of fixed and moving objects such as lamps, heating, electrical equipment, wiring of vehicles, terminal boxes and power supply

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)

- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50264-3-2, type MM
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, fine wired
- Insulation : Electron beam cross-linked polyolefin copolymer
- Colour of insulation : black with white numbers
- Outer sheath : Electron beam cross-linked polyolefin copolymer, Black colour

Technical data

- Conductor stranding**
Fine wired acc. to IEC 60228 class 5
- Minimum bending radius**
Fixed installation : $\leq 12 : 4 \times OD / 3 \times OD^*$, $> 12 : 5 \times OD / 4 \times OD^*$, * for careful bending, once at connecting terminal
- Nominal voltage**
 U_0/U AC 0.6 / 1.0 kV, U_m AC 1.2kV, V_0 DC 0.9kV
- Temperature range**
Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to +90°C max.



ÖLFLEX® TRAIN 4GKW C



Info

- Meets EN 50264-3-1 type OM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Benefits

- High flexibility and slim diameters enable small bending radii at fixed installation
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Excellent chemical resistance and high Flammability rating as well
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- For connection of stationary and moving parts
- Suitable for cabling of switchboards, converters, panel units and rheostatic braking blocks

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)
- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50264-3-1, type OM
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, fine wired
- Inner Insulation : Electron beam cross-linked polyolefin copolymer, Natural colour
- Braiding : Tinned copper braid
- Outer sheath : Electron beam cross-linked polyolefin copolymer, Black colour

Technical data

- Conductor stranding**
Fine wired acc. to IEC 60228 class 5
- Minimum bending radius**
Fixed installation : $\leq 12 : 4 \times OD / 3 \times OD^*$, $> 12 : 5 \times OD / 4 \times OD^*$, * for careful bending, once at connecting terminal
- Nominal voltage**
 U_0/U AC 1.8 / 3.0 kV, U_m AC 3.6kV, V_0 DC 2.7kV
- Temperature range**
Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to +90°C max.



ÖLFLEX® TRAIN 4GKW HF



Benefits

- More improved high flexibility than 4GKW and slim diameters enable small bending radii at fixed installation
- Easy to strip and to dismantle & Expanded temperature range
- Resistant to mechanical influences in harsh environmental conditions
- Excellent chemical resistance and high Flammability rating as well
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- For connection of stationary and moving parts
- Suitable for cabling of switchboards, converters, panel units and rheostatic braking blocks
- For carrying energy between cars

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)
- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50264-3-1, type OM
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, Super fine wired
- Inner Insulation : Electron beam cross-linked polyolefin copolymer, Natural colour
- Outer Insulation : Electron beam cross-linked polyolefin copolymer
- Outer Insulation colour : Black or green-yellow



Info

- Meets EN 50264-3-1 type OM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Technical data



Conductor stranding

Fine wired acc. to IEC 60228 class 6



Minimum bending radius

Fixed installation : 4 x OD, 3 x OD for careful bending, once at connecting terminal



Nominal voltage

U₀/U AC 1.8 / 3.0 kV, Um AC 3.6kV, Vo DC 2.7kV



Temperature range

Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to + 90°C max.

ÖLFLEX® TRAIN 9GKW



Benefits

- High flexibility and slim diameters enable small bending radii at fixed installation
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Excellent chemical resistance and high Flammability rating as well
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- For connection of stationary and moving parts
- Suitable for cabling of switchboards, converters, panel units and rheostatic braking blocks

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)
- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50264-3-1, type OM
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, fine wired
- Inner Insulation : Electron beam cross-linked polyolefin copolymer, Natural colour
- Outer Insulation : Electron beam cross-linked polyolefin copolymer
- Outer Insulation colour : Black or green-yellow



Info

- Meets EN 50264-3-1 type OM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Technical data



Conductor stranding

Fine wired acc. to IEC 60228 class 5



Minimum bending radius

Fixed installation : ≤ 12 : 4 x OD / 3 x OD*, > 12 : 5 x OD / 4 x OD*, * for careful bending, once at connecting terminal



Nominal voltage

U₀/U AC 3.6 / 6.0 kV, Um AC 7.2kV, Vo DC 5.4kV



Temperature range

Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to + 90°C max.

ÖLFLEX® TRAIN 9GKW C



Info

- Meets EN 50264-3-1 type OM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Benefits

- High flexibility and slim diameters enable small bending radii at fixed installation
- Resistant to mechanical influences in harsh environmental conditions
- Expanded temperature range
- Excellent chemical resistance and high Flammability rating as well
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- For connection of stationary and moving parts
- Suitable for cabling of switchboards, converters, panel units and rheostatic braking blocks

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)
- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50264-3-1, type OM
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- EN 45545-2 HL1, HL2, HL3
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, fine wired
- Inner Insulation : Electron beam cross-linked polyolefin copolymer, Natural colour
- Braiding : Tinned copper braid
- Outer sheath : Electron beam cross-linked polyolefin copolymer, Black colour

Technical data

- Conductor stranding**
Fine wired acc. to IEC 60228 class 5
- Minimum bending radius**
Fixed installation : $\leq 12 : 4 \times OD / 3 \times OD^*$, $> 12 : 5 \times OD / 4 \times OD^*$, * for careful bending, once at connecting terminal
- Nominal voltage**
 U_0/U AC 3.6 / 6.0 kV, U_m AC 7.2kV, V_0 DC 5.4kV
- Temperature range**
Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to +90°C max.



ÖLFLEX® TRAIN 9GKW HF



Info

- Meets EN 50264-3-1 type OM
- High temperature resistance : -40°C up to +125°C
- Highly oil- and fuel-resistant

Benefits

- More improved high flexibility than 4GKW and slim diameters enable small bending radii at fixed installation
- Easy to strip and to dismantle & Expanded temperature range
- Resistant to mechanical influences in harsh environmental conditions
- Excellent chemical resistance and high Flammability rating as well
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property

Application range

- For fixed and protected installations inside or outside of railed vehicles and buses
- For connection of stationary and moving parts
- Suitable for cabling of switchboards, converters, panel units and rheostatic braking blocks
- For carrying energy between cars

Product features

- Halogen-free (IEC 60754-1) & No corrosive gases (IEC 60754-2)
- No toxic gases (EN 50305, BS 6853)
- Low smoke density (IEC 61034-2)
- Flame retardant (IEC 60332-1-2)
- No fire spreading (EN 50305, BS6853)

Norm references / Approvals

- EN 50264-3-1, type OM
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- BS 6853 (Interior use Ia, Ib, & Exterior use Ia, Ib,)
- Compliant with NFPA 130

Product Make-up

- Conductor : Tinned copper strand, Super fine wired
- Inner Insulation : Electron beam cross-linked polyolefin copolymer, Natural colour
- Outer Insulation : Electron beam cross-linked polyolefin copolymer
- Outer Insulation colour : Black or green-yellow

Technical data

- Conductor stranding**
Fine wired acc. to IEC 60228 class 6
- Minimum bending radius**
Fixed installation : $4 \times OD$, $3 \times OD$ for careful bending, once at connecting terminal
- Nominal voltage**
 U_0/U AC 1.8 / 3.0 kV, U_m AC 3.6kV, V_0 DC 2.7kV
- Temperature range**
Fixed installation : -40°C up to +125°C max.
Occasional flexing : -35°C up to +90°C max.





2

UNITRONIC® Data communication systems

Our high-quality UNITRONIC® data network cables and field bus components provide a forward-looking solution for all applications in industrial machinery and plant engineering. From transmission of simple control signals to field bus signals in complex network structures – we offer a dependable cabling and connection solution for almost every situation.

Application range

- Industrial machinery and plant engineering
- Sensors and actuating elements
- Appliances
- Measurement and control technology
- Automated production processes and industrial robots
- Bus systems
- Computing and communication systems

Low frequency data transmission

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ALARM CABLE



Info

- Unshielded

Application range

- Flexible cables normally used for the wiring of burglar and security alarm and other low voltage circuits
- Suitable for interconnection between control unit systems, sensors and alerting devices
- For indoor installation

Product features

- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Stranded bare annealed copper wires
- PVC core insulation
- PVC outer sheath, white

Technical data



Classification

ETIM 5.0 Class-Description: Signal-/telecommunication cable
ETIM 5.0 Class-ID: EC000829



Core identification code

4 core: RD/BK/WH/BU
6 core: RD/BK/WH/BU/YE/GN



Mutual capacitance

Approx. 120 nF/km, at 800Hz



Peak operating voltage

50 Vrms (not for power applications)



Minimum bending radius

10 x cable diameter



Temperature range

-30°C to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ALARM CABLE				
3804934	4 X 0.25	4.3	9.6	28
3804936	6 X 0.25	5.1	14.2	39

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
- Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® LIY(ST)Y



Info

- UL Style 2464
- UL-approved

Application range

- Suitable for use in data transmission for control measurement
- For use in dry and damp environment

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- UL - approved
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Multi-wire strands of tinned annealed copper
- Semi-Rigid PVC core insulation
- Aluminium foil screening
- Tinned copper drain wire
- PVC outer sheath
- Colour: pebble grey, RAL 7032

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Core identification code

acc. to DIN 47100



Mutual capacitance

C/C : approx. 110 pF/m
C/S : approx. 215 pF/m



Peak operating voltage

300 V (not for power applications)



Minimum bending radius

10 x cable diameter



Temperature range

-30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® LIY(ST)Y				
3802841	3 x 24 AWG	4.3	8.4	24
3802842	4 x 24 AWG	4.7	10.5	30
3802843	6 x 24 AWG	5.4	14.7	40
3802844	8 x 24 AWG	5.7	18.9	46
3802845	15 x 24 AWG	7.2	33.6	73
3802846	25 x 24 AWG	8.6	54.5	124
3802847	30 x 24 AWG	9.7	65.0	129

- Photographs are not to scale and do not represent detailed images of the respective products. • If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.



Info

- UL Style 2464
- UL-approved

UNITRONIC® LiY(ST)Y-TP



Application range

- Suitable for use in data transmission for audio and control measurement
- For use in dry and damp environment

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- UL - approved
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Multi-wire strands of tinned annealed copper
- Semi-Rigid PVC core insulation
- Twisted pair
- Aluminium foil screening
- Tinned copper drain wire
- PVC outer sheath
- Colour: pebble grey, RAL 7032

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code acc. to DIN 47100 (Twisted Pairs) Pair 1 : white/brown Pair 2 : green/yellow Pair 3 : grey/pink Pair 4 : blue/red Pair 5 : black/violet
	Peak operating voltage 300 V (not for power applications)
	Minimum bending radius 10 x cable diameter
	Temperature range -30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® LiY(ST)Y-TP				
3802856	1 x 2 x 24 AWG	4.0	6.4	21
3803952	2 x 2 x 24 AWG	6.0	10.5	48
3803953	3 x 2 x 24 AWG	5.8	14.7	42
3803954	4 x 2 x 24 AWG	6.4	18.9	51
3803955	5 x 2 x 24 AWG	6.9	23.1	60
3802855	1 x 2 x 22 AWG	4.6	9.8	32
3803960	2 x 2 x 22 AWG	5.6	16.3	43
3803961	3 x 2 x 22 AWG	6.4	22.8	54
3803962	4 x 2 x 22 AWG	7.1	29.4	66
3803963	5 x 2 x 22 AWG	7.7	35.9	79
3802854	1 x 2 x 20 AWG	5.1	15.3	41
3803990	2 x 2 x 20 AWG	6.3	25.5	59
3803991	3 x 2 x 20 AWG	7.3	35.7	74
3803992	4 x 2 x 20 AWG	8.1	45.9	90
3803993	5 x 2 x 20 AWG	8.8	56.1	109
3803970	1 x 2 x 18 AWG	5.6	23.4	49
3803971	2 x 2 x 18 AWG	7.7	39.0	79
3803972	3 x 2 x 18 AWG	8.4	54.6	99
3803973	4 x 2 x 18 AWG	9.4	70.2	123
3803974	5 x 2 x 18 AWG	10.2	85.8	148
3803980	1 x 2 x 16 AWG	6.3	38.0	68
3803981	2 x 2 x 16 AWG	8.2	63.4	111
3803982	3 x 2 x 16 AWG	9.6	88.7	141
3803983	4 x 2 x 16 AWG	10.8	114.1	177
3803984	5 x 2 x 16 AWG	11.8	139.4	213

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
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UNITRONIC® ST 20276



Info

- UL Style 20276
- UL-approved

Application range

- Especially designed for use as control and instrumentation cables
- For static laying in dry and damp environment

Product features

- Pair screening offers optimum protection against external interference at medium and high frequencies
- Twisted cores and individual pair shielding ensures high Near End Cross Talk attenuation
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Multi-wire strands of tinned copper wires
- PE core insulation
- Cores twisted together
- Individual pair aluminium foil screening
- Tinned copper drain wire
- PVC sheath
- Colour: chrome grey, RAL 7005

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code black/red, and white/green
	Mutual capacitance C/C : approx. 115 pF/m C/S : approx. 203 pF/m
	Peak operating voltage 30 V
	Inductivity approx. 0.55 mH/km
	Minimum bending radius 10 x cable diameter
	Characteristic impedance 45 Ohm
	Temperature range -20°C to +60°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® ST 20276				
3800952	2 x 2 x 22 AWG	4.3	20.5	28

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UNITRONIC® ST 20253



Info

- Style 20253

Application range

- Internal wiring for audio, transmission measurement and control signals with minimum noise
- Cost effective and ideal for environment which less susceptible to noise
- For static laying in dry and damp environment

Product features

- 100% shielding, offers optimum protection against external interference at medium and high frequencies
- Ideal solution where flexibility and a high degree of screening is required
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Multi-wire strands of tinned copper wires
- PE core insulation
- Cores twisted together
- Individual pair of aluminium laminated plastic foil
- Tinned copper drain wire
- PVC sheath
- Colour: chrome grey, RAL 7005

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code black, natural
	Mutual capacitance C/C : approx. 75 pF/m C/S : approx. 114 pF/m
	Peak operating voltage 600 V (not for power applications)
	Inductivity approx. 0.65 mH/km
	Minimum bending radius 10 x cable diameter
	Characteristic impedance 65 Ohm
	Temperature range -30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® ST 20253				
3800717	1 x 2 x 16 AWG	8.0	33.9	80

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UNITRONIC® ST 2092



Info

- UL Style 2092
- UL-approved



Application range

- Internal wiring for audio, transmission measurement and control signals with minimum noise
- Internal wiring use in data transmission control and measurement cable with minimum noise immunity in the surrounding
- For static laying in dry and damp environment

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Ideal solution where flexibility and a high degree of screening is required
- Flame retardant in acc. to IEC 60332-1-2
- Twisted pairs ensures good shielding and low noise interference

Product Make-up

- Multi-wire strands of tinned copper wires
- PE core insulation
- Cores twisted together
- Aluminium foil screening
- Tinned copper drain wire
- PVC sheath
- Colour: pebble grey, RAL 7005

Technical data

- Classification**
ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830
- Core identification code**
black, natural
- Mutual capacitance**
C/C : approx. 45 pF/m (24AWG)
C/C : approx. 79 pF/m (22AWG)
C/C : approx. 97 pF/m (18AWG)
C/C : approx. 82 pF/m (16 AWG)
C/S : approx. 107 pF/m (24AWG)
C/S : approx. 154 pF/m (22AWG)
C/S : approx. 145 pF/m (18AWG)
C/S : approx. 168 pF/m (16AWG)
- Peak operating voltage**
300 V (not for power applications)
- Inductivity**
approx. 0.65 mH/km
- Minimum bending radius**
10 x cable diameter
- Characteristic impedance**
65 Ohm
- Temperature range**
-30°C to +60°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® ST 2092				
3804580	1 x 2 x 24 AWG	4.8	5.7	25
3800764	1 x 2 x 22 AWG	4.4	10.3	29
0033002	1 x 2 x 18 AWG	5.6	20.7	41
3804581	1 x 2 x 16 AWG	6.7	34.5	64
3804950	2 x 20 AWG	5.2	16.2	35

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UNITRONIC® ST 2095 PE



Info

- UL Style 2095
- UL-approved

Application range

- Suitable connection for audio, control signal and instrument measurement
- For use in dry and damp environment

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Multi-wire strands of tinned copper wires
- PE core insulation
- Overall screening with aluminium foil
- Tinned annealed copper drain wire
- PVC sheath
- Colour: pebble grey, RAL 7032

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Core identification code

black, red, natural



Mutual capacitance

C/C : approx. 90 pF/m (20 AWG)
C/C : approx. 78.5 pF/m (18 AWG)
C/S : approx. 160 pF/m (20 AWG)
C/S : approx. 158 pF/m (18 AWG)



Peak operating voltage

300 V (not for power applications)



Minimum bending radius

10 x cable diameter



Temperature range

-30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® ST 2095 PE				
3804951	3 x 20 AWG	5.5	21.4	46
3804931	3 x 18 AWG	6.2	28.9	50

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UNITRONIC® ST 2095 PVC



Info

- UL Style 2095
- Security / Alarm cable
- UL-approved

Application range

- Suitable connection for security, alarm intercom, and control measurement
- For use in dry and damp environment

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Multi-wire strands of bare copper wires
- PVC core insulation
- Twisted pair, overall screening with aluminium foil
- Tinned annealed copper drain wire
- PVC sheath
- Colour: pebble grey, RAL 7032

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Core identification code

black/red and black/white



Mutual capacitance

C/C : approx. 116 pF/m
C/S : approx. 210 pF/m



Peak operating voltage

300 V (not for power applications)



Minimum bending radius

10 x cable diameter



Temperature range

-20°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® ST 2095 PVC				
3804565	2 x 2 x 18 AWG	6.7	39.3	74

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Info

- UL Style 2464
- UL-approved

Application range

- Suitable for use in instrumentation, industrial automation and process control application
- For use in dry and damp environment
- UV-resistant and impervious to moisture penetration

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Multi-wire strands of bare copper wires
- SR-PVC core insulation
- Cores twisted together
- Static screen of aluminium laminated plastic foil
- PVC sheath
- Tinned copper drain wire
- Colour: black, RAL 9005

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code 1-Pair : black/white 2-Pair : black/white, black/red
	Mutual capacitance C/C : approx. 200 pF/m C/S : approx. 370 pF/m
	Peak operating voltage 300 V (not for power applications)
	Inductivity approx. 0.62 mH/km
	Minimum bending radius 10 x cable diameter
	Temperature range -30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® ST 2464				
3800718	1 x 2 x 16 AWG	6.5	34.4	66
3803979	2 x 2 x 16 AWG	9.8	64.2	128

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Info

- UL Style 2919
- Low capacitance
- UL-approved

Application range

- Suitable for wiring of data systems with high transmission rates
- Designed for use as Data Highway (DH) RS 232, RS 422, and RS 485 interface
- Suitable for use as control and instrumentation cables
- Suitable for flexible and static laying in dry and damp locations

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Low capacitance, double screened
- Excellent shielding against internal and external interference

Product Make-up

- Multi-wire strands of tinned copper wires
- PE core insulation
- Twisted pair
- Aluminium / mylar
- Tinned copper drain wire
- Tinned copper braiding
- PVC outer sheath
- Colour: pebble grey, RAL 7032
- Colour: chrome grey, RAL 7005

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code 1 Pair : wh/bu stripe + bu/wh stripe 2 Pair : wh/og stripe + og/wh stripe
	Mutual capacitance C/C : approx. 42 pF/m C/S : approx. 76 pF/m
	Peak operating voltage 30V (not for power applications)
	Inductivity approx. 0.65 mH/km
	Minimum bending radius 10 x cable diameter
	Characteristics impedance 100-120 Ohm
	Temperature range -30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® ST 2919 PE				
3800765	1 x 2 x 24 AWG	5.9	21.3	46
3800953	2 x 2 x 24 AWG	8.8	32.9	86
3804582	1 x 2 x 22 AWG	6.8	28.7	62

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For current information see: <http://e.lapp.com/ap/>

UNITRONIC® ST 2919 PP



Application range

- Suitable connection for audio, control and instrumentation measurements in environments immune to noise
- For use in dry and damp environment

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Multi-wire strands of tinned annealed copper
- PP core insulation
- Twisted pair, individual pair screening of aluminium laminated foil
- Tinned copper drain wire
- PVC sheath
- Colour: pebble grey, RAL 7032



Info

- UL Style 2919
- Audio, control and instrumentation
- UL-approved

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Core identification code

black/red, black/white, and black/green



Mutual capacitance

C/C : approx. 98 pF/m
C/S : approx. 181 pF/m



Peak operating voltage

30 V (not for power applications)



Inductivity

approx. 0.65 mH/km



Minimum bending radius

10 x cable diameter

Characteristics impedance

50 Ohm



Temperature range

-30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® ST 2919 PP				
3801708	3 x 2x 22 AWG	7.0	25.7	62

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UNITRONIC® ST 2919 FPE



Application range

- Designed for use as Data Highway (DH) RS 232, RS 422, and RS 485 interface
- Suitable for static laying in dry and damp condition

Product features

- Low capacitance
- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flexible for use in environment where space is a constraint
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Multi-wire strands of tinned copper wires
- Foam PE core insulation
Cores twisted together

- Overall screening of aluminium laminated plastic foil
- Tinned copper drain wire
- PVC sheath
- Colour: chrome grey, RAL 7005
- **Core insulation colour:**
 - Pair 1: wh/bu stripe + bu/wh stripe
 - Pair 2: wh/og stripe + og/wh stripe
 - Pair 3: wh/gn stripe + gn/wh stripe
 - Pair 4: wh/bu stripe + bu/wh stripe
 - Pair 5: wh/gy stripe + gy/wh stripe
 - Pair 6: rd/bu stripe + bu/wh stripe
 - Pair 7: rd/og stripe + og/rd stripe
 - Pair 8: rd/gn stripe + gn/rd stripe
 - Pair 9: rd/bu stripe + bu/rd stripe
 - Pair 10: rd/gy stripe + gy/rd stripe
 - Pair 11: bk/bu stripe + bu/bk stripe
 - Pair 12: bk/og stripe + og/bk stripe
- Single conductor: grey



Info

- UL Style 2919
- Low capacitance
- UL-approved

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Mutual capacitance

C/C : approx. 42 pF/m
C/S : approx. 72 pF/m



Peak operating voltage

30 V (not for power applications)



Inductivity

approx. 0.7 mH/km



Minimum bending radius

10 x cable diameter

Characteristics impedance

100-120 Ohm



Temperature range

-30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® ST 2919 PE				
3800950	2 x 2 x 24 AWG	6.3	10.5	46
3804943	3 x 2 x 24 AWG	6.7	14.7	42
3800951	4 x 2 x 24 AWG	7.1	19.0	55
3804946	6 x 2 x 24 AWG	8.1	27.3	75
3804947	12 x 2 x 24 AWG + 1 x 24 AWG	10.6	54.6	122

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ST 21088 Li2Y(ST)CH LSHF



Info

- Low smoke halogen free

Application range

- Internal wiring for audio, control signal and instrument measurement and RS-485
- For static laying in dry and damp environment
- Where in any case of fire, minimum formation of toxic gas is formed as protection of human life is vital

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Low smoke halogen free outer sheath
- Flame retardant in acc. to IEC 60332-1-2

Norm references / Approvals

- Based on UL AWM Style 21088

Product Make-up

- Strands tinned copper wires
- HDPE core insulation
- Cores twisted together
- Aluminium foil screening
- Tinned copper drain wire
- Tinned copper braiding
- LSHF outer sheath
- Colour: pebble grey, RAL 7032

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code Pair 1 : wh/bu x bu/wh Pair 2 : wh/og x og/wh
	Mutual capacitance C/C : nom. 42 pF/m (1kHz) C/S : nom. 76 pF/m (1kHz)
	Peak operating voltage 30 V max.
	Inductivity nom. 0.65 mH/km
	Minimum bending radius 10 x cable diameter
	Characteristics impedance Nom. 120 Ohm
	Temperature range -30°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ST 21088 Li2Y(ST)CH LSHF				
3802000	1 x 2 x 24 AWG	5.9	21.3	51
3802001	2 x 2 x 24 AWG	8.8	32.9	85

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ST 21305 Li2Y(ST)H LSHF



Info

- Low smoke halogen free

Application range

- Internal wiring for audio, control signal and instrument measurement
- For static laying in dry and damp environment
- Where in any case of fire, minimum formation of toxic gas is formed as protection of human life is vital

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Low smoke halogen free outer sheath
- Flame retardant in acc. to IEC 60332-1-2

Norm references / Approvals

- Based on UL AWM Style 21305

Product Make-up

- Stranded tinned copper wires
- PE core insulation
- Cores twisted together
- Aluminium foil screening
- Tinned copper drain wire
- LSHF outer sheath
- Colour: pebble grey, RAL 7032

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code black / natural
	Mutual capacitance C/C : nom. 79 pF/m (1kHz) C/S : nom. 154 pF/m (1kHz)
	Peak operating voltage 300V (not for power applications)
	Inductivity nom. 0.65 mH/km
	Minimum bending radius 10 x cable diameter
	Characteristics impedance 100 Ohm
	Temperature range -30°C to +60°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ST 21305 Li2Y(ST)H LSHF				
3803115	1 x 2 x 22 AWG	4.5	10.3	29
3803116	1 x 2 x 20 AWG	5.2	16.2	39
3803117	1 x 2 x 18 AWG	5.7	20.7	46
3803118	1 x 2 x 16 AWG	6.7	34.5	68

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Li9Y(ST)Y



Application range

- Suitable connection for audio, control and instrumentation measurements in environments immune to noise
- For use in dry and damp environment

Product features

- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Stranded tinned annealed copper wires
- PP core insulation
- Overall screen of Al/My tape + stranded tinned copper drain wires
- PVC outer sheath, pebble grey



Info

- Shielding
- 100 Ohm

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Core identification code

Pair #1: wh/bu Pair #2: wh/og
Pair #3: wh/gn Pair #4: wh/bn
Pair #5: wh/gy Pair #6: rd/bu
Pair #7: rd/og Pair #8: rd/gn
Pair #9: rd/bn Pair #10: rd/gy
Pair #11: bk/bu Pair #12: bk/og
Pair #13: bk/gn Pair #14: bk/bn
Pair #15: bk/gy Pair #16: ye/bu
Pair #17: ye/og Pair #18: ye/gn
Pair #19: ye/bn Pair #20: ye/gy
Pair #21: vt/bu Pair #22: vt/og
Pair #23: vt/gn Pair #24: vt/bn
Pair #25: vt/gy



Mutual capacitance

nom. 130 pF/m, at 1 kHz

Characteristics impedance

100 Ohm



Temperature range

-10°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
Li9Y(ST)Y				
3802781	1 x 2 x 24 AWG/7	4.2	6.3	21
3802782	2 x 2 x 24 AWG/7	5.4	10.6	33
3802783	3 x 2 x 24 AWG/7	6.0	14.8	40
3802784	4 x 2 x 24 AWG/7	6.6	19.0	47
3802785	6 x 2 x 24 AWG/7	7.6	27.5	62
3802786	8 x 2 x 24 AWG/7	8.5	35.9	79
3802787	10 x 2 x 24 AWG/7	9.2	44.4	94
3802788	12 x 2 x 24 AWG/7	9.9	52.8	108
3802789	16 x 2 x 24 AWG/7	11.1	69.8	139
3802790	25 x 2 x 24 AWG/7	13.4	107.8	199

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J-2Y(ST)H-TP



Application range

- Data cable for digital communication in a LONWORKS® networks and building automation systems
- Also suitable for use in distributed control network in factory and process automation systems
- For indoor installation
- LONWORKS® is a trademark of ECHELON

Product features

- Offers optimum protection against external interferences
- Low smoke halogen free in acc. to IEC 61034 and IEC 60754-2
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Solid bare annealed copper wires
- PE core insulation
- Cores twisted together
- Aluminium laminated polyester foil screen + solid tinned annealed copper drain wire
- LSHF outer sheath, white



Info

- LONWORKS®
- 100 Ohm

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Core identification code

Pair 1 : bu + wh/bu
Pair 2 : og + wh/og



Mutual capacitance

max. 17 pF/ft (core-core)



Peak operating voltage

300 V (not for power applications)



Minimum bending radius

5 x cable diameter (static)

Characteristics impedance

100 ± 15 Ohm (1MHz)



Temperature range

-20°C to +75°C

Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
J-2Y(ST)H-TP				
3802596	1 x 2 x 22 AWG/1	4.6	8.5	25
3802597	2 x 2 x 22 AWG/1	6.5	15.0	39

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COAXIAL RG SERIES RG 59/U, RG 6/90, RU 11/U



Info

- Low attenuation loss
- 75 Ohm
- TÜV SÜD PSB type approved for 3801313

Benefits

- Broadband for low loss attenuation of high frequency signal

Application range

- CATV video transmission and data network
- Optimizing frequency up to 1000 MHz
- Suitable for use in dry and damp areas

Product features

- Double screen, offer good screening against external interference
- UV-resistant
- Flame retardant in acc. to IEC 60332-1-2

Norm references / Approvals

- TÜV SÜD PSB type approved for 3801313

Product Make-up

- Bare copper plated steel solid conductor
- Foam PE core insulation
- Aluminium foil bonded, 100% coverage
- Aluminium wire braiding
- PVC outer sheath, black

Technical data

	Classification ETIM 5.0 Class-Description: Coaxial cable ETIM 5.0 Class-ID: EC000019
	Mutual capacitance 51 pF/m
	Minimum bending radius Fixed installation: 10 x cable diameter
	Characteristics impedance 75 ± 3 Ohm (3800768 & 3800720) 75 ± 2 Ohm (3801313)
	Temperature range Fixed installation: -30°C to +80°C

Article number	Article designation	Conductor cross-section	Outer diameter (mm)	Working voltage in V	Min. braiding coverage	Copper index (kg/km)	Weight (kg/km)
COAXIAL RG SERIES RG 59/U, RG 6/90, RU 11/U							
3800768	RG 59/U	1 x 20 AWG	6.0	350	68%	0.3	33
3801313	RG 6/U	1 x 18 AWG	6.8	350	90%	0.5	43
3800720	RG 11/U	1 x 14 AWG	10.2	600	60%	1.2	100

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
- Photographs are not to scale and do not represent detailed images of the respective products.

COAXIAL RG 59/U



Info

- CCTV / CATV
- 75 Ohm, solid copper

Application range

- CCTV and CATV video transmission and data networking
- RF/Data communication, 75 Ohm
- Indoor and outdoor (non burial) application

Product features

- Offers good screening against external interference
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Solid bare copper conductor
- PE core insulation
- Bare copper wire braiding, 95% coverage
- PVC outer sheath, black

Technical data

	Classification ETIM 5.0 Class-Description: Coaxial cable ETIM 5.0 Class-ID: EC000019
	Mutual capacitance 67.2 pF/m, C-S
	Peak operating voltage 300Vrms max.
	Conductor resistance max. 66.9 Ohm/km Attenuation loss 11.0 dB/100m at 100 MHz, 40.0 dB/100m at 1000 MHz
	Minimum bending radius 10 x cable diameter
	Characteristics impedance 75 ± 3 Ohm
	Temperature range -30°C to +70°C

Article number	Conductor cross-section	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
COAXIAL RG 59/U				
3803951	1 x 23 AWG	6.1	23.8	49

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COAXIAL RG 6/U



Application range

- CCTV and CATV video transmission and data networking
- RF/Data communication, 75 Ohm
- Indoor and outdoor (non burial) application

Product features

- Offers good screening against external interference
- Flame retardant in acc. to IEC 60332-1-2

Product Make-up

- Solid bare copper conductor
- Foam PE core insulation
- Bare copper wire braiding, approx. 95% coverage
- PVC outer sheath, black

Info

- CCTV / CATV
- 75 Ohm, solid copper

Technical data

	Classification ETIM 5.0 Class-Description: Coaxial cable ETIM 5.0 Class-ID: EC000019
	Mutual capacitance nom. 54.2 pF/m, C-S
	Peak operating voltage 300Vrms max.
	Conductor resistance max. 22 Ohm/km Attenuation loss 12.0 dB/100m at 300 MHz, 21.0 dB/100m at 1000 MHz
	Minimum bending radius 10 x cable diameter
	Characteristics impedance 75 ± 3 Ohm
	Temperature range -30°C to +70°C

Article number	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
COAXIAL RG 6/U			
3804606	6.9	26.7	56

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Data Cables • Bus systems

UNITRONIC® BUS DeviceNet™ THICK + THIN



Application range

- Stationary application
- DeviceNet™ connects industrial devices e.g. limit switches, photoelectric switches, valve islands, motor starters, drivers, PLCs, etc
- DeviceNet™ Bus system (Rockwell Automation)

Product Make-up

- Stranded tinned copper conductor
- PE core insulation
- PVC sheath
- Colour: chrome grey, RAL 7005

Product features

- Based on proven CAN (Controller Area Network) technology
- Permissible cable lengths vary with the data rate and the cable thickness
- THICK cable total trunk length 125 kbit/s = 100 m
- THIN cable total trunk length 125 kbit/s = 6 m250kbit/s = 6 m500kbit/s = 6 m

Info

- DeviceNet™

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code Data pair: light blue + white Power supply: red + black
	Mutual capacitance (800 Hz) max. 40 nF/km
	Peak operating voltage 300 V (not for power applications)
	Conductor resistance Thick (loop): max. 45 ohm/km Thin (loop): max. 180 ohm/km
	Minimum bending radius Fixed installation: 10 x outer diameter
	Characteristics impedance at 1 MHz: 120 ± 10 Ohm
	Temperature range Fixed installation: -20°C to +70°C

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS DeviceNet™ THICK + THIN					
3801234	DeviceNet THICK	1x2x18AWG + 1x2x15AWG	12.0	80.9	159
3801235	DeviceNet THIN	1x2x24AWG + 1x2x22AWG	7.2	30.5	67

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**Info**

- Fast Connect (FC) cable design
- PROFIBUS

Application range

- For stationary installation for Bus Systems 150 Ohm impedance
- Dry and damp indoors

Product features

- This bus cable can be used for PROFIBUSDP as well as for PROFIBUS-FMS and FIP
- Based on the bit rates listed, in accordance with PNO specifications the following maximum cable lengths for a bus segment apply (cable type A, PROFIBUS-DP):
93.75 kbit/s = 1200 m
1875 kbit/s = 1000 m
500 kbit/s = 400 m
1.5 Mbit/s = 200 m
12.0 Mbit/s = 100 m
- Flame retardant in acc. to IEC 60332-1-2

Norm references / Approvals

- In accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC NET, also suitable for FIP (Factory Instrumentation Protocol)

Product Make-up

- Single wire of bare copper
- Foam PE core insulationCores twisted together
- Plastic foil wrapping
- Aluminium-mylar tape screen + tinned copper wire braiding
- PVC outer sheath, violet RAL 4001

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code red, green
	Mutual capacitance (800 Hz): max. 30 nF/km
	Peak operating voltage 250V (not for power applications)
	Conductor resistance (loop): max. 115 Ohm/km
	Minimum bending radius Fixed installation: 10 x cable diameter
	Characteristics impedance 150 ± 15 Ohm
	Temperature range -40°C up to +80°C

Article number	No. of pairs and AWG size	No. of cores and mm ² per conductor	Dimension and cross section in mm ²	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS L2/FIP FC							
2170320	1 x 2 x 0.64	1 x 2 x 0.64	1 x 2 x 0.64	8.0	violet	26.0	84

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UNITRONIC® BUS PA SWA**Info**

- Process Automation (PA)
- PROFIBUS

Benefit

- PROFIBUS-PA with Steel Wire Armouring

Application range

- Designed for the system-defined transmission rates of 1.5 Mbs, and 31.25 KHz
- Suitable for direct burial and permanent installation in harsh and rugged environments
- Suitable for oil and gas, petrochemical, pharmaceutical industry
- For indoor and outdoor use

Product features

- Transmission technology for PROFIBUS-PA in acc. to IEC 61158-2 Standard
- Blue outer sheath colour for intrinsically safe system in hazardous area
- Flame retardant in acc. to IEC 60332-1-2
- UV-resistant (for black outer sheath)

Product Make-up

- Stranded bare copper conductor
- Foam PE core insulation
- Aluminium mylar tape screen
- Tinned copper wire braiding
- Galvanized steel wire armoured
- PVC inner sheath, black or blue
- PVC outer sheath
- Colour: black, RAL 9005 or blue, RAL 5015

Technical data

	Core identification code red, green
	Mutual capacitance (800 Hz): approx. 52 nF/km
	Peak operating voltage max. 100V (not for power applications)
	Conductor resistance (loop): max. 44 Ohm/km
	Minimum bending radius 10 x cable diameter
	Characteristics impedance at 31.25 kHz: 100 ± 20 Ohm
	Test voltage 1500 V
	Temperature range -30°C to +70°C

Article number	Number of pairs and cable diameter per conductor in mm ²	Outer sheath colour	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS PA SWA					
3803158	1 x 2 x 1.0	black	12.8	45.0	152
3803159	1 x 2 x 1.0	blue	12.8	45.0	152

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UNITRONIC® BUS FF-844 H1 C LSZH

FF-844 H1 installation cable with EMC and LSZH solution



Info

- Certified with FOUNDATION FIELDBUS "FF- 844 H1"
- For TYPE A installation

Benefits

- Cables meet the requirements of ISA/SP50 and the FOUNDATION™ field bus for the cable type A

Application range

- FF cables for operating temperature up to +90° C
- Fixed Installation
- Indoor / Outdoor
- Direct burial (Armoured version)
- Tray application (Steel Wire Braid versions)

Product features

- Flammability : According to IEC 60332-1
- LSZH Property
- Oxygen Index(Min.) : >29% as per ASTM D 2863
- Temp. Index (Min.) : >250 Deg C as per ASTM D 2863
- HCL gas emission (Max.): AS PER IEC 754-2; Smoke Density : Min. Visibility 80% as per ASTM D 2843

Norm references / Approvals

- IEC 61158-2
- FF 844
- BS EN 50288-7

Product Make-up

- Conductor : ATC of Class II
- Core Insulation : XLPE
- Individual and Overall Screening : AL-MYLAR tape
- Inner Sheath : LSZH, colour orange
- Mechanical Protection : SSA-Steel strip armour / SWA-Steel wire armour / SY-Steel Braid
- Outer Sheath : LSZH / LSZH with UV and AR, orange

Technical data

- Core identification code**
Blue and orange cores with numerical printing for pair identification
- Peak operating voltage**
300 V
- Conductor resistance**
23.5 Ohm/Km
- Minimum bending radius**
Unarmoured = 12 X OD
Armoured = 20 X OD
- Temperature range**
-30°C to +90°C

Article number	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS FF LSZH - CHXOR				
382200013	1 X 2 X 18	9.0	15.4	123
382200037	2 X 2 X 18	15.0	30.7	266
382200061	3 X 2 X 18	15.9	46.1	326
382200085	4 X 2 X 18	17.6	61.4	401
382200229	10 X 2 X 18	27.9	153.5	940
382200277	12 X 2 X 18	28.8	184.2	1,054
UNITRONIC® BUS FF LSZH - CHXSHXOR				
382200021	1 X 2 X 18	13.0	15.4	259
382200045	2 X 2 X 18	19.4	30.7	503
382200069	3 X 2 X 18	20.5	46.1	584
382200093	4 X 2 X 18	22.0	61.4	675
382200237	10 X 2 X 18	32.9	153.5	1,406
382200285	12 X 2 X 18	34.0	184.2	1,559
UNITRONIC® BUS FF LSZH SSA - CHXSSAHXOR				
382200062	3 X 2 X 18	20.9	46.1	822
382200086	4 X 2 X 18	22.4	61.4	932
382200230	10 X 2 X 18	33.3	153.5	1,820
382200278	12 X 2 X 18	34.6	184.2	2,001
UNITRONIC® BUS FF LSZH SWA - CHXSWAHXOR				
382200014	1 X 2 X 18	13.6	15.4	374
382200038	2 X 2 X 18	20.0	30.7	689
UNITRONIC® BUS FF LSZH UVAR - CHXUVAROR				
382200015	1 X 2 X 18	9.0	15.4	123
382200039	2 X 2 X 18	15.0	30.7	266
382200087	4 X 2 X 18	17.6	46.1	401
382200231	10 X 2 X 18	27.9	153.5	940
382200279	12 X 2 X 18	28.8	184.2	1,054

Article number	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS FF LSZH UVAR - CHXSHXUVAROR				
382200022	1 X 2 X 18	13.0	15.4	259
382200046	2 X 2 X 18	19.4	30.7	503
382200070	3 X 2 X 18	20.5	46.1	584
382200238	10 X 2 X 18	32.9	153.5	1,406
382200286	12 X 2 X 18	34.0	184.2	1,559
UNITRONIC® BUS FF LSZH SSA UVAR - CHXSSAHXUVAROR				
382200064	3 X 2 X 18	20.9	46.1	822
382200088	4 X 2 X 18	22.4	61.4	932
382200112	5 X 2 X 18	24.6	76.8	1,111
382200136	6 X 2 X 18	26.6	92.1	1,259
382200160	7 X 2 X 18	26.6	107.5	1,305
382200184	8 X 2 X 18	29.7	122.8	1,541
382200208	9 X 2 X 18	32.2	138.2	1,719
382200232	10 X 2 X 18	33.3	153.5	1,820
382200256	11 X 2 X 18	33.3	168.9	1,865
382200280	12 X 2 X 18	34.6	184.2	2,001
UNITRONIC® BUS FF LSZH SWA UVAR - CHXSWAHXUVAROR				
382200016	1 X 2 X 18	13.6	15.4	374
382200040	2 X 2 X 18	20.0	30.7	689

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UNITRONIC® BUS FF-844 H1 C PVC

FF-844 H1 installation cable with EMC and FR-LSH solution



Info

- Certified with FOUNDATION FIELDBUS "FF- 844 H1"
- For TYPE A installation



Benefits

- Cables meet the requirements of ISA/SP50 and the FOUNDATION™ field bus for the cable type A

Application range

- FF cables for operating temperature up to +90° C
- Fixed Installation
- Indoor / Outdoor
- Direct burial (Armoured version)
- Tray application (Steel Wire Braid versions)

Product features

- Flammability : According to IEC 60332-1
- FRLS Property (only For FRLS Outer Sheath)
- Oxygen Index(Min.) : >29% as per ASTM D 2863
- Temp. Index (Min.) : >250 Deg C as per ASTM D 2863
- HCL gas emission (Max.): 20% By weight; Smoke Density : Min. Visibility 40% as per ASTM D 2843

Norm references / Approvals

- IEC 61158-2
- FF 844
- BS EN 50288-7

Product Make-up

- Conductor : ATC of Class II
- Core Insulation : XLPE
- Individual and Overall Screening : AL-MYLAR tape
- Inner Sheath : Special PVC, flameretardant low smoke low halogen, orange
- Mechanical Protection : SSA -Steel strip armour / SWA-Steel wire armour / SY-Steel Braid
- Outer Sheath : Special PVC, flameretardant low smoke low halogen with UV and AR, orange

Technical data



Core identification code

Blue and orange cores with numerical printing for pair identification



Peak operating voltage

300 V



Conductor resistance

23.5 Ohm/Km



Minimum bending radius

Unarmoured = 10 X OD
Armoured = 18 X OD



Temperature range

-30°C to +90°C

Article number	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS FF PVC - CYC3OR				
382200001	1 X 2 X 18	9.0	15.4	123
382200025	2 X 2 X 18	15.0	30.7	266
382200217	10 X 2 X 18	27.9	153.5	940
382200265	12 X 2 X 18	28.8	184.2	1,054
UNITRONIC® BUS FF PVC S - CYC3SYC3OR				
382200009	1 X 2 X 18	13.0	15.4	259
382200033	2 X 2 X 18	19.4	30.7	503
382200225	10 X 2 X 18	32.9	153.5	1,406
382200273	12 X 2 X 18	34.0	184.2	1,559
UNITRONIC® BUS FF PVC SSA - CYC3SSAYC3OR				
382200218	10 X 2 X 18	33.3	153.5	1,820
382200266	12 X 2 X 18	34.6	184.2	2,001
UNITRONIC® BUS FF PVC SWA - CYC3SWAYC3OR				
382200002	1 X 2 X 18	13.6	15.4	374
382200026	2 X 2 X 18	20.0	30.7	689
UNITRONIC® BUS FF PVC UVAR - CYC3UVAROR				
382200003	1 X 2 X 18	9.0	15.4	123
382200027	2 X 2 X 18	15.0	30.7	266
382200267	10 X 2 X 18	27.9	153.5	940
382200038	12 X 2 X 18	28.8	184.2	1,054

Article number	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS FF PVC S UVAR - CYC3SYC3UVAROR				
382200010	1 X 2 X 18	13.0	15.4	259
382200034	2 X 2 X 18	19.4	30.7	503
382200058	3 X 2 X 18	20.5	46.1	584
382200082	4 X 2 X 18	22.0	61.4	675
382200106	5 X 2 X 18	24.2	76.8	821
382200130	6 X 2 X 18	26.2	92.1	937
382200154	7 X 2 X 18	26.2	107.5	982
382200178	8 X 2 X 18	29.3	122.8	1186
382200202	9 X 2 X 18	31.8	138.2	1318
382200226	10 X 2 X 18	32.9	153.5	1406
382200250	11 X 2 X 18	32.9	168.9	1451
382200274	12 X 2 X 18	34.0	184.2	1559
UNITRONIC® BUS FF PVC SSA UVAR - CYC3SSAYC3UVAROR				
382200052	3 X 2 X 18	20.9	46.1	822
382200076	4 X 2 X 18	22.4	61.4	932
382200100	5 X 2 X 18	24.6	76.8	1111
382200124	6 X 2 X 18	26.6	92.1	1259
382200148	7 X 2 X 18	26.6	107.5	1305
382200172	8 X 2 X 18	29.7	122.8	1541
382200196	9 X 2 X 18	32.2	138.2	1719
382200220	10 X 2 X 18	33.3	153.5	1820
382200244	11 X 2 X 18	33.3	168.9	1865
382200268	12 X 2 X 18	34.6	184.2	2001
UNITRONIC® BUS FF PVC SWA UVAR - CYC3SWAYC3UVAROR				
382200004	1 X 2 X 18	13.6	15.4	374
382200028	2 X 2 X 18	20.0	30.7	689

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UNITRONIC® BUS FF-844 H1 LSZH

FF-844 H1 installation cable with LSZH solution



Info

- Certified with FOUNDATION FIELDBUS "FF-844 H1"
- For TYPE A installation

Benefits

- Cables meet the requirements of ISA/SP50 and the FOUNDATION™ field bus for the cable type A

Application range

- FF cables for operating temperature up to +90° C
- Fixed Installation
- Indoor / Outdoor
- Direct burial (Armoured version)
- Tray application (Steel Wire Braid versions)

Product features

- Flammability : According to IEC 60332-1
- LSZH Property
- Oxygen Index (Min.) : >29% as per ASTM D 2863
- Temp. Index (Min.) : >250 Deg C as per ASTM D 2863
- HCL gas emission (Max.): AS PER IEC 754-2; Smoke Density : Min. Visibility 80% as per ASTM D 2843

Norm references / Approvals

- IEC 61158-2
- FF 844
- BS EN 50288-7

Product Make-up

- Conductor : ATC of Class II
- Core Insulation : XLPE
- Individual and Overall Screening : AL-MYLAR tape
- Inner Sheath : LSZH, colour orange
- Mechanical Protection : SSA -Steel strip armour / SWA-Steel wire armour / SY-Steel Braid
- Outer Sheath : LSZH / LSZH with UV and AR, orange

Technical data



Core identification code

Blue and orange cores with numerical printing for pair identification



Peak operating voltage

300 V



Conductor resistance

23.5 Ohm/Km



Minimum bending radius

Unarmoured = 12 X OD
Armoured = 20 X OD

Characteristic impedance

100 ± 20 Ω At 31.25 kHz



Temperature range

-30°C to +90°C

Article number	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS FF LSZH - HXOR				
382200017	1 X 2 X 18	8.6	15.4	90
382200041	2 X 2 X 18	14.7	30.7	220
382200233	10 X 2 X 18	27.4	153.5	785
382200281	12 X 2 X 18	28.3	184.2	893
382200349	20 X 2 X 18	35.8	307.1	1,418
382200381	24 X 2 X 18	39.9	368.5	1,685
382200389	25 X 2 X 18	39.9	383.8	1,733
UNITRONIC® BUS FF LSZH S - HXSHXOR				
382200023	1 X 2 X 18	12.6	15.4	222
382200047	2 X 2 X 18	18.9	30.7	443
382200239	10 X 2 X 18	32.4	153.5	1,250
382200287	12 X 2 X 18	33.3	184.2	1,371
UNITRONIC® BUS FF LSZH SSA - HXSWAHXOR				
382200234	10 X 2 X 18	32.8	153.5	1,648
382200282	12 X 2 X 18	33.7	184.2	1,783
382200350	20 X 2 X 18	41.6	307.1	2,579
382200382	24 X 2 X 18	46.3	368.5	3,050
382200390	25 X 2 X 18	46.3	383.8	3,099
UNITRONIC® BUS FF LSZH SWA - HXSWAHXOR				
382200018	1 X 2 X 18	13.2	15.4	330
382200042	2 X 2 X 18	19.7	30.7	635
UNITRONIC® BUS FF LSZH UVAR - HXUVAROR				
382200019	1 X 2 X 18	8.6	15.4	90
382200043	2 X 2 X 18	14.7	30.7	220
382200235	10 X 2 X 18	27.4	153.5	785
382200283	12 X 2 X 18	28.3	184.2	893
382200351	20 X 2 X 18	35.8	307.1	1,418
382200383	24 X 2 X 18	39.9	368.5	1,685
382200391	25 X 2 X 18	39.9	383.8	1,733

Article number	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS FF LSZH S UVAR- HXSHXUVAROR				
382200024	1 X 2 X 18	12.6	15.4	222
382200048	2 X 2 X 18	18.9	30.7	443
382200240	10 X 2 X 18	32.4	153.5	1,250
382200288	12 X 2 X 18	33.3	184.2	1,371
UNITRONIC® BUS FF LSZH SSA UVAR - HXSSAHXUVAROR				
382200068	3 X 2 X 18	20.7	46.1	768
382200092	4 X 2 X 18	22.2	61.4	874
382200116	5 X 2 X 18	24.2	76.8	1,012
382200140	6 X 2 X 18	26.2	92.1	1,148
382200236	10 X 2 X 18	32.8	153.5	1,648
382200284	12 X 2 X 18	33.7	184.2	1,783
382200352	20 X 2 X 18	41.6	307.1	2,579
382200384	24 X 2 X 18	46.3	368.5	3,050
382200392	25 X 2 X 18	46.3	383.8	3,099
UNITRONIC® BUS FF LSZH SWA UVAR - HXSWAHXUVAROR				
382200020	1 X 2 X 18	13.2	15.4	330
382200044	2 X 2 X 18	19.7	30.7	635

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UNITRONIC® BUS FF-844 H1 PVC

FF-844 H1 installation cable with FR-LSH solution



Info

- Certified with FOUNDATION FIELDBUS “FF- 844 H1”
- For TYPE A installation



Benefits

- Cables meet the requirements of ISA/ SP50 and the FOUNDATION™ field bus for the cable type A

Application range

- FF cables for operating temperature up to +90° C
- Fixed Installation
- Indoor / Outdoor
- Direct burial (Armoured version)
- Tray application (Steel Wire Braid versions)

Product features

- Flammability : According to IEC 60332-1
- FRLS Property (only For FRLS Outer Sheath)
- Oxygen Index(Min.) : >29% as per ASTM D 2863
- Temp. Index (Min.) : >250 Deg C as per ASTM D 2863
- HCL gas emission (Max.): 20% By weight; Smoke Density : Min. Visibility 40% as per ASTM D 2843

Norm references / Approvals

- IEC 61158-2
- FF 844
- BS EN 50288-7

Product Make-up

- Conductor : ATC of Class II
- Core Insulation : XLPE
- Individual and Overall Screening : AL-MYLAR tape
- Inner Sheath : Special PVC, flameretardant low smoke low halogen, orange
- Mechanical Protection : SSA -Steel strip armour / SWA-Steel wire armour / SY-Steel Braid
- Outer Sheath : Special PVC, flame retardant low smoke low halogen with UV and AR, orange

Technical data



Core identification code

Blue and orange cores with numerical printing for pair identification



Peak operating voltage

300 V



Conductor resistance

23.5 Ohm/Km



Minimum bending radius

Unarmoured = 10 X OD
Armoured = 18 X OD

Characteristic impedance

100 ± 20 Ω At 31.25 kHz



Temperature range

-30°C to +90°C

Article number	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS FF PVC - YC3OR				
382200005	1 X 2 X 18	8.6	15.4	90
382200029	2 X 2 X 18	14.7	30.7	220
382200221	10 X 2 X 18	27.4	153.5	785
382200345	20 X 2 X 18	35.8	307.1	1,418
382200377	24 X 2 X 18	39.9	368.5	1,685
UNITRONIC® BUS FF PVC S - YC3SYC3OR				
382200011	1 X 2 X 18	12.6	15.4	222
382200035	2 X 2 X 18	18.9	30.7	443
382200227	10 X 2 X 18	32.4	153.5	1,250
UNITRONIC® BUS FF PVC SSA - YC3SSAYC3OR				
382200222	10 X 2 X 18	32.8	153.5	1,648
382200346	20 X 2 X 18	41.6	307.1	2,579
382200378	24 X 2 X 18	46.3	368.5	3,050
UNITRONIC® BUS FF PVC SWA - YC3SWAYC3OR				
382200006	1 X 2 X 18	13.2	15.4	330
382200030	2 X 2 X 18	19.7	30.7	635
UNITRONIC® BUS FF PVC UVAR - YC3UVAROR				
382200007	1 X 2 X 18	8.6	15.4	90
382200031	2 X 2 X 18	14.7	30.7	220
382200223	10 X 2 X 18	27.4	153.5	785
382200347	20 X 2 X 18	35.8	307.1	1,418
382200379	24 X 2 X 18	39.9	368.5	1,685
UNITRONIC® BUS FF PVC S UVAR - YC3SYC3UVAROR				
382200012	1 X 2 X 18	12.6	15.4	222
382200036	2 X 2 X 18	18.9	30.7	443
382200228	10 X 2 X 18	32.4	153.5	1,250

Article number	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS FF PVC SSA UVAR - YC3SSAYC3UVAROR				
382200056	3 X 2 X 18	20.7	46.1	768
382200080	4 X 2 X 18	22.2	61.4	874
382200104	5 X 2 X 18	24.2	76.8	1,012
382200128	6 X 2 X 18	26.2	92.1	1,148
382200152	7 X 2 X 18	26.2	107.5	1,197
382200176	8 X 2 X 18	29.2	122.9	1,381
382200200	9 X 2 X 18	31.6	138.2	1,549
382200224	10 X 2 X 18	32.8	153.5	1,648
382200248	11 X 2 X 18	32.8	168.9	1,697
382200272	12 X 2 X 18	33.7	184.3	1,783
382200316	16 X 2 X 18	37.5	245.7	2,177
382200348	20 X 2 X 18	41.6	307.1	2,579
382200356	21 X 2 X 18	41.6	322.4	2,627
382200364	22 X 2 X 18	44.0	337.8	2,814
382200372	23 X 2 X 18	44.0	353.1	2,863
382200380	24 X 2 X 18	46.3	368.5	3,050
382200388	25 X 2 X 18	46.3	383.8	3,099
UNITRONIC® BUS FF PVC SWA UVAR - YC3SWAYC3UVAROR				
382200008	1 X 2 X 18	13.2	15.4	330
382200032	2 X 2 X 18	19.7	30.7	635

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M12 Open-Ended Cordsets



Info

- Other types are available on request

Benefits

- Cost-saving due to quick and easy installation
- Space-saving due to compact dimensions
- Fast and easy error tracking

Application range

- For medium mechanical stress in dry conditions

Norm references / Approvals

- In acc. to EC 61076-2-101
- UL-listed cable, E-File Number: E63634
- Flame-retardant acc. to UL 1581 FT-1

Product Make-up

- Wire cross-section :22AWG
Colour-code:
- 3-pin: bn (1), bu (3), bk (4)
- 4-pin: bn (1), wh (2), bu (3), bk (4)
- 5-pin: bn (1), wh (2), bu (3), bk (4), gn/ye (5)
- Outer sheath: PVC, black

Technical data



Classification

ETIM 5.0 Class-ID: EC001855

ETIM 5.0 Class-Description:

Sensor actuator patch cord



Material

Contacts: Phosphor bronze, gold-plated

Contact carriers: TPU+GF

Coupling nut/screw: Nickel plated brass

Seal: FKM



Minimum bending radius

Fixed installation: 6 x outer diameter



Protection rating

IP 65/IP 67



Ambient temperature (operation)

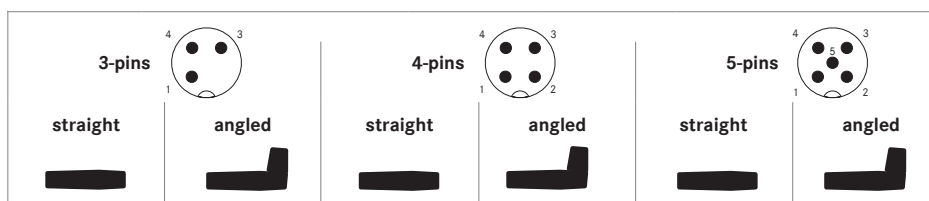
-25°C to +90°C

Coding

A-standard

Rated current (A)

4A



Product	Length	Article number					
Plug, unshielded	1.0m	8100012	8100274	8100052	8100322	8100122	8100430
	2.0m	8100013	8100275	8100053	8100323	8100123	8100431
	5.0m	8100015	8100277	8100055	8100325	8100125	8100433
	10.0m	8100173	8100278	8100181	8100326	8100195	8100434
Socket, unshielded	1.0m	8100002	8100262	8100042	8100310	8100112	8100418
	2.0m	8100003	8100263	8100043	8100311	8100113	8100419
	5.0m	8100005	8100265	8100045	8100313	8100115	8100421
	10.0m	8100171	8100266	8100179	8100314	8100193	8100422
Plug, shielded	1.0m	8100032	8100298	8100072	8100346	8100142	8100454
	2.0m	8100033	8100299	8100073	8100347	8100143	8100455
	5.0m	8100035	8100301	8100075	8100349	8100145	8100457
	10.0m	8100177	8100302	8100185	8100350	8100199	8100458
Socket, shielded	1.0m	8100022	8100286	8100062	8100334	8100132	8100442
	2.0m	8100023	8100287	8100063	8100335	8100133	8100443
	5.0m	8100025	8100289	8100065	8100337	8100135	8100445
	10.0m	8100175	8100290	8100183	8100338	8100197	8100446

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UNITRONIC® LiYY & UNITRONIC® LiY(ST)CY

Flexible cable for sensor/actuator cabling



Info

- UL Recognized



Benefits

- Easy Installation (through cable trays, tubes and cabinets)
- Easy Stripping and Processing
- Space-saving due to compact dimensions

Application range

- Automation technology
- Sensor/actuator cabling

Norm references / Approvals

- UL AWM Style 2464

Product features

- Flame Retardant according to VW-1 and FT1

Product Make-up

- Fine wire strands of bare copper accordance to UL758
- Core insulation : SR-PVC
- Colour-code :
 - 3 core : Brown, Blue , Black,
 - 4 core : Brown, White, Blue , Black
 - 5 core : Brown, White, Blue , Black, Green/Yellow
- Shielding : Aluminium Mylar Foil Tape & Tinned Copper Braid Shielded (Only UNITRONIC® LiY(ST)CY)
- Outer Sheath : PVC
- Sheath Colour : Black (RAL 9005)

Technical data



Peak operating voltage

300 V (not for power applications)



Conductor stranding

Fine wire strands of bare copper accordance to UL758



Temperature range

Fixed installation : -40°C to 80°C

®

®

Article number	Article designation	Dimensions (AWG)	Outer diameter (mm)	Core/Outer Sheath Material
UNITRONIC® LiYY				
85173223	LAPP KABEL LiYY TW 3x22AWG	3 x 22AWG	4.7	SR-PVC/PVC
85173224	LAPP KABEL LiYY TW 4x22AWG	4 x 22AWG	5.15	SR-PVC/PVC
85173225	LAPP KABEL LiYY TW 5x22AWG	5 x 22AWG	5.55	SR-PVC/PVC
UNITRONIC® LiY(ST)CY				
85173524	LAPP KABEL LiY(ST)CY TW 4x22AWG	4 x 22AWG	5.55	SR-PVC/PVC
85173525	LAPP KABEL LiY(ST)CY TW 5x22AWG	5 x 22AWG	5.59	SR-PVC/PVC

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3

ETHERLINE®

Data communication systems for ETHERNET technology

Our ETHERLINE® branded products open up a secure, fast and reliable path to the future of Ethernet applications, e. g. PROFINET®. The systems are made up of durable and robust cables and connection components for passive and active network technology, and deliver an effective solution for almost any application, particularly in an industrial environment.

Application range

- Industry and building networks
- Industrial machinery and plant engineering
- Automation technology
- Control engineering

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CAT.6 LAN

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UNITRONIC® LAN 200 UTP CAT.5e



Info

- PVC or Halogen-free outer sheath
- Solid conductor
- 200 MHz

Application range

- Data transfer for horizontal network backbone for wiring office administration and development buildings
- Cable run should not exceed 100 m in acc. to ISO/IEC 11801 and EN 50173

Product Make-up

- Solid bare conductor
- PE core insulation
- PVC or Halogen-free outer sheath
- Colour: pebble grey, RAL 7032
- Packaging: 305 m/box

Product features

- Transmission rate up to 200 MHz
- Flame retardant acc. to IEC 60332-1-2
- Halogen free acc. to IEC 60754-1 (for Halogen free outer sheath only)

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Core identification code

Pair 1 : blue + white/blue
Pair 2 : orange + white/orange
Pair 3 : green + white/green
Pair 4 : brown + white/brown



Mutual capacitance

max. 56.0 pF/m (core-core)



Minimum bending radius

Fixed installation: 4 x cable diameter

Characteristic impedance

100 ± 15 Ohm at 100 MHz



Temperature range

-20°C to +70°C

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Outer sheath type	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® LAN 200 UTP CAT.5e						
2170125K	LAN 200 UTP CAT.5e	4 x 2 x 24 AWG	5.1	PVC	14.9	29
3803999K	LAN 200 UTP-H CAT.5e	4 x 2 x 24 AWG	5.1	Halogen-free	14.9	29

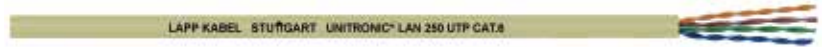
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UNITRONIC® LAN 250 UTP CAT.6



Info

- PVC or Halogen-free outer sheath
- Solid conductor
- 250 MHz



Application range

- Data transfer for horizontal network backbone for wiring office administration and development buildings
- Cable run should not exceed 100 m in acc. to ISO/IEC 11801 and EN 50173

Product features

- Transmission rate up to 250 MHz
- Flame retardant acc. to IEC 60332-1-2
- Halogen free acc. to IEC 60754-1 (for Halogenfree outer sheath only)

Product Make-up

- Solid bare conductor
- PE core insulation
- PVC or Halogen-free outer sheath
- Colour: pebble grey, RAL 7032
- Packaging: 305 m/box

Technical data

	Classification ETIM 5.0 Class-Description: Data cable ETIM 5.0 Class-ID: EC000830
	Core identification code Pair 1 : blue + white/blue Pair 2 : orange + white/orange Pair 3 : green + white/green Pair 4 : brown + white/brown
	Mutual capacitance max. 56.0 pF/m (core-core)
	Minimum bending radius Fixed installation: 4 x cable diameter
	Characteristic impedance 100 ± 15 Ohm at 100 MHz
	Temperature range -20°C to +70°C

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Outer sheath type	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® LAN 250 UTP CAT.6						
3801501K	LAN 250 UTP CAT.6	4 x 2 x 23 AWG	6.4	PVC	17.9	40
3804000K	LAN 250 UTP-H CAT.6	4 x 2 x 23 AWG	6.4	Halogen-free	17.9	40

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UNITRONIC® LAN 500 U/FTP CAT.6A



Info

- PVC or Halogen-free outer sheath
- Solid conductor
- 500 MHz

Application range

- Data transfer for horizontal network backbone for wiring office administration and development buildings
- Cable run should not exceed 100 m in acc. to ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173

Product features

- Transmission rate up to 500 MHz
- Flame retardant acc. to IEC 60332-1-2
- Halogen free acc. to IEC 60754-1 (for LSHF outer sheath only)

Product Make-up

- Solid bare conductor
- Foam PE core insulation
- Individual pair screen of Al foil
- Solid tinned copper drain wire
- PVC or LSHF outer sheath
- Colour: pebble grey, RAL 7032
- Packaging: 305 m/box

Technical data



Classification

ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830



Core identification code

Pair 1 : blue + white/blue
Pair 2 : orange + white/orange
Pair 3 : green + white/green
Pair 4 : brown + white/brown



Mutual capacitance

max. 56.0 nF/100 m



Minimum bending radius

Fixed installation: 4 x cable diameter

Characteristic impedance

100 ± 15 Ohm at 100 MHz



Temperature range

-20°C to +70°C

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® LAN 500 U/FTP CAT.6A					
3804900	LAN 500 U/FTP CAT.6A PVC	4 x 2 x 23 AWG/1	7.2	21.0	52
3804910	LAN 500 U/FTP CAT.6A LSHF	4 x 2 x 23 AWG/1	7.2	21.0	52

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ETHERLINE® LAN CAT.6A

Ethernet cable for Category 6A/ class EA -verified up to 500 MHz



Info

- Low Smoke Zero Halogen outer sheath
- Solid conductor
- Bandwidth up to 500MHz
- Remote Powering : IEEE 802.3bt

Benefits

- LAN cables for structured building cabling according to EN 50173-1, TIA-568.2-D 2009 and ISO/IEC 11801-1
- Barrier Technology for uniform heat flow dissipation and maintain insertion loss performance. (For 8100600)
- Less risk of system slow down through 90W application. (For 8100600)

Application range

- For office wiring, administration and development buildings in tertiary sector. (floor wiring)
- Cable length in tertiary area (horizontal area, floor) should not exceed a length of 100m in accordance with ISO/IEC 11801-1, TIA-568.2-D and EN 50173 standards. (90m in cable duct + 10m in working area)
- Power over Ethernet (PoE) application upto 90W
- Support current and future Cat6a and Cat6 application such as 10GBase-T and 1000Base-T

Product features

- Transmission rate up to 500MHz
- Flame Retardant according to IEC60332-1-2
- Acid Gas Emission Test according to IEC60754-1&2
- Smoke Density Test according to IEC61034-2
- Remote Powering : IEEE 802.3bt Type 1, Type 2, Type 3 & Type 4

Norm references / Approvals

- ETL Verified to ANSI/TIA-568.2-D, ISO/IEC 11801-1 and EN 50173-1 Category 6A

Product Make-up

- Solid conductor 4x2xAWG23/1
- PE core insulation
- U/UTP : No overall or pair screening, 2 cores stranded to pair, 4 pairs stranded to bundle with central cross
- F/UTP : Foil shielding as overall shielding, 2 cores stranded to pair, 4 pairs stranded to bundle with central cross
- Outer Sheath as LSZH (grey RAL7032)
- Packaging : 305 m/box

Technical data



Core identification code

Pair 1 : Blue + White/Blue
Pair 2 : Orange + White/Orange
Pair 3 : Green + White/Green
Pair 4 : Brown + White/Brown



Minimum bending radius

Fixed installation : 4 x outer diameter
During installation : 8 x outer diameter

Characteristic impedance

Norm. 100Ω



Temperature range

Fixed installation : -20°C to +70°C

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ETHERLINE® LAN CAT.6A					
8100600	ETHERLINE® LAN CAT.6A U/UTP H	4 x 2 x 23AWG/1	7.2	21.0	50
8100606	ETHERLINE® LAN CAT.6A F/UTP H	4 x 2 x 23AWG/1	7.4	21.0	52

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CAT 6 PATCHCORDS



Benefits

- Economical patch cords that fits into general commercial or industrial applications

Application range

- Office Equipment connections
- Control cabinet wiring
- Servers or routers

Norms references / Approvals

- In accordance to ANSI/TIA-568-C.2, ISO/IEC 11801

Product Features

- Available in U/UTP PVC and F/UTP LSZH versions
- Available in different lengths
- Popular colours in range, such as blue, yellow, orange, grey and black

Product Make-up

- Conductor type: Stranded bare copper wires
- Core Insulation: HD Polyethylene
- Moulded RJ45 connectors

Technical data



Core identification code

- Pair 1 Blue + White/Blue
- Pair 2 Orange + White/Orange
- Pair 3 Green + White/Green
- Pair 4 Brown + White/Brown



Rated voltage

150 V



Test voltage

1000 V Dielectric test



Temperature range

Fixed installation: -20°C to +65°C

Length (m)	black	grey	blue	yellow	orange
PATCHCORD CAT 6 U/UTP PVC					
0.5	3805594	3805614	3805634	3805654	3805800
1	3805595	3805615	3805635	3805655	3805801
1.5	3805596	3805616	3805636	3805656	3805802
2	3805597	3805617	3805637	3805657	3805803
3	3805598	3805618	3805638	3805658	3805804
5	3805599	3805619	3805639	3805659	3805805
7.5	3805600	3805820	3805640	3805660	3805806
10	3805601	3805821	3805641	3805661	3805807
15	3805602	3805822	3805642	3805662	3805808
20	3805603	3805823	3805643	3805663	3805809

Length (m)	black	grey	blue	yellow	orange
PATCHCORD CAT 6 F/UTP LSZH					
0.5	3805604	3805824	3805644	3805664	3805810
1	3805605	3805825	3805645	3805665	3805811
1.5	3805606	3805826	3805646	3805666	3805812
2	3805607	3805827	3805647	3805667	3805813
3	3805608	3805828	3805648	3805668	3805814
5	3805609	3805829	3805649	3805669	3805815
7.5	3805610	3805830	3805650	3805670	3805816
10	3805611	3805831	3805651	3805671	3805817
15	3805612	3805632	3805652	3805672	3805818
20	3805613	3805633	3805653	3805673	3805819

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TOSIBOX® KEY



Benefits

- Intelligent crypto-processing device that enables a secure connection between your computer and one or more TOSIBOX® Locks, Central Lock and/or Virtual Central Lock

Product features

- 2048 bit RSA key in the cryptographic module
- 4 GB or larger flash memory storage for TOSIBOX® Key software and settings
- USB 2.0 interface, type A, with standard CSP/PKCS#11

Product Make-up

- Durable light metal alloy casing
- Including one Mobile Client for Android or iOS
- 83 mm x 22 mm x 10 mm / 3.27" x 0.87 x 0.39" (L x W x H)

Technical data



Operating temperature 0 °C to +70 °C
Storage temperature -20 °C to +80 °C

Article number	Article description
3806220	TOSIBOX KEY

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TOSIBOX® SoftKey

The virtual key for your TOSIBOX® ecosystem



TOSIBOX® SoftKey



Info

- The SoftKey is computer- and user-specific. It cannot be copied over or moved to another device
- The access rights are granted and controlled from the physical TOSIBOX Key, after which the SoftKey remains bound to it
- To activate SoftKey on a PC or Mac, you will need SoftKey license for the Master Key

Benefits

- TOSIBOX® SoftKey is a computer software that enables a secure connection between the computer and one or more TOSIBOX® Locks, giving the user full visibility and control over the network devices connected to the Lock
- TOSIBOX® SoftKey can be installed into cloud services and virtual environments
- TOSIBOX® SoftKey can be created and access right can be granted immediately even from other side of the world
- Two-factor authentication is fulfilled also with SoftKey: device-specific (something in your possession) and password-protected (something only you know)

Application range

- TOSIBOX® SoftKey can be used in computers that do not have an USB port or where the use of USB devices is tricky

Product features

- Cryptographic key size and type : 4096 bit RSA
- Data encryption: TLS, Blowfish-128-CBC, AES-128-CBC, AES-256-CBC
- Comes with two-factor authentication
- VPN connection type: Layer 2 / Layer 3 (OpenVPN)

Article number	Article description
8100540	TOSIBOX SOFTKEY TBSKL 1
8100541	TOSIBOX SOFTKEY TBSKL5
8100542	TOSIBOX SOFTKEY TBSKL 10

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TOSIBOX® 150



Benefits

- SIMPLE - Build and manage secure IoT infrastructure in minutes
- SECURE - Tested & audited security
- MODULAR - Unlimited expandability and flexibility
- COMPATIBLE - Integrate seamlessly with legacy and future systems
- UNIQUE - Globally patented point-to-point connection

Application range

- Remote access and networking device for secure access of HMIs, PLCs, PCs and other devices or systems over the Internet.

Product features

- Patented TOSIBOX® Plug & Go™ connection method takes you out of the box and into use in less than 5 minutes, without the need for software installations, network configurations or special IT skills

- NAT and firewall friendly
- VPN throughput up to 10 MB/s, end-to-end encryption between TOSIBOX® devices
- Up to 10 concurrent VPN connections
- Reliability with TosiOnline™ - automatic re-connection of dropped connections

Product Make-up

- Cast aluminium casing
- 132 mm x 99 mm x 35.5 mm / 5.2" x 3.9" x 1.4" (L x W x H)
- Weight 593 g / 1.31 lbs (net weight article)
- Accessories in package include: RJ-45 Cat6 Ethernet cable, USB extension cable, 2 x WLAN antennas, 2 dBi, AC Adapter: Input 100 240V AC, DC input plug, DIN rail mounting bracket

Technical data



Operating temperature -20 °C to +50 °C
Storage temperature -40 °C to +70 °C

Article number	Article description
3806221	TOSIBOX LOCK 150
8100543	TOSIBOX LOCK 150 WITHOUT POWER SUPPLY

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
- Photographs are not to scale and do not represent detailed images of the respective products.



TOSIBOX® LOCK 210

Industrial router with built-in firewall for LAN Networks



Benefits

- **SIMPLE** - Build and manage secure IoT infrastructure in minutes
- **SECURE** - Tested & audited security
- **MODULAR** - Unlimited expandability and flexibility
- **COMPATIBLE** - Integrate seamlessly with legacy and future systems
- **UNIQUE** - Globally patented point-to-point connection

Application range

- Device serves as endpoints for secure remote connections in operational (OT) networks

Product features

- 30 Mbps VPN throughout and end-to-end encryption from Key to Lock, Lock to Lock or Lock to (Virtual) Central Lock
- Up to 20 concurrent VPN connections
- TosiOnline™ feature for automatically reconnecting dropped connections

Product Make-up

- Industrial design: robust and fanless enclosure, integrated DIN rail bracket and industrial screw-on DC power connector
- 1 x RJ-45 WAN & 3 x RJ-45 LAN connections, 10/100 Mb/s, auto-negotiation (MDI/MDI-X)
110 mm x 58 mm x 127 mm /
4.33" x 2.28" x 5.0" (L x W x H)
- Weight 495 g / 1.09 lbs
- Accessories include: RJ-45 Cat5e Ethernet cable, I/O connector and power connector plug

Technical data

	IP20
	Operating temperature -20°C to +60°C Storage temperature -40°C to +70°C

Article number	Article description
8100590	TOSIBOX LOCK 210 WITHOUT POWER SUPPLY
8100594	START KIT WITH KEY SOFTKEY MOBILE CLIENT & LOCK 210

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
- Photographs are not to scale and do not represent detailed images of the respective products.

TOSIBOX® LOCK 250



Benefits

- **SIMPLE** - Build and manage secure IoT infrastructure in minutes
- **SECURE** - Tested & audited security
- **MODULAR** - Unlimited expandability and flexibility
- **COMPATIBLE** - Integrate seamlessly with legacy and future systems
- **UNIQUE** - Globally patented point-to-point connection

Application range

- Device serves as endpoints for secure remote connections in operational (OT) networks

Product features

- 30 Mbps VPN throughout and end-to-end encryption from Key to Lock, Lock to Lock or Lock to (Virtual) Central Lock
- Up to 20 concurrent VPN connections
- Integrated WiFi serves as connectivity method or access point for wireless devices on sites
- TosiOnline™ feature for automatically reconnecting dropped connections

Product Make-up

- Industrial design: robust and fanless enclosure, integrated DIN rail bracket and industrial screw-on DC power connector
- 1 x RJ-45 WAN & 3 x RJ-45 LAN connections, 10/100 Mb/s, auto-negotiation (MDI/MDI-X)
110 mm x 58 mm x 127 mm /
4.33" x 2.28" x 5.0" (L x W x H)
- Weight 495 g / 1.09 lbs
- Accessories include: RJ-45 Cat5e Ethernet cable, I/O connector and power connector plug and 2 x WiFi antennas - 2 dBi

Technical data

	IP20
	Operating temperature -20°C to +60°C Storage temperature -40°C to +70°C

Article number	Article description
8100592	TOSIBOX LOCK 250 WITHOUT POWER SUPPLY

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
- Photographs are not to scale and do not represent detailed images of the respective products.



TOSIBOX® LOCK 500

The next generation Plug & GO™ connectivity device



Benefits

- SIMPLE - Build and manage secure IoT infrastructure in minutes
- SECURE - Tested & audited security
- MODULAR - Unlimited expandability and flexibility
- COMPATIBLE - Integrate seamlessly with legacy and future systems
- UNIQUE - Globally patented point-to-point connection

Application range

- Remote access and networking device for secure access of HMIs, PLCs, PCs and other devices or systems over the Internet.

Product features

- Massive VPN throughput for data consuming applications, end-to-end encryption between TOSIBOX® devices
- NAT and firewall friendly

- Integrated WiFi as connectivity method or access point for wireless devices on site.
- Built-in LTE modem (optional), with two modem variants covering most of the globe no external modem needed
- Up to 50 concurrent VPN connections

Product Make-up

- 110 mm x 58 mm x 127 mm / 4.33" x 2.28" x 5.0" (L x W x H)
- TBL5*: Weight 495 g / 1.09 lbs (net weight article)
- TBL5i*: Weight 505 g / 1.11 lbs (net weight article)
- Accessories in package include: RJ-45 Cat5e Ethernet cable, 2 x WiFi antennas, 2 dBi, I/O connector plug, Power connector plug. Additional accessories for TBL5*PS version: AC adapter - Input 100 240 V AC, frequency 47 63 Hz, Output 12.0 V, 1.6 A, max 19.2 W. EU, UK, AU and US power socket and DC feed cable

Technical data



IP20



Operating temperature -20°C to +60°C
Storage temperature -40°C to +70°C

Article number	Article description
3806227	TOSIBOX LOCK 500 WITHOUT POWER SUPPLY
3806230	TOSIBOX LOCK 500i APAC VER WITHOUT POWER SUPPLY

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TOSIBOX® CENTRAL LOCK



Benefits

- **SIMPLE** - Build and manage secure IoT infrastructure in minutes
- **SECURE** - Tested & audited security
- **MODULAR** - Unlimited expandability and flexibility
- **COMPATIBLE** - Integrate seamlessly with legacy and future systems
- **UNIQUE** - Globally patented point-to-point connection

Application range

- Remote access and networking device for secure access of HMIs, PLCs, PCs and other devices or systems over the Internet.

Product features

- Over 700 Mbit/s encryption throughput

- 1000 concurrent remote connections per LAN network
- Encryption and authentication PKI, 3072 bit RSA
- Data encryption TLS, AES-256-CBC / Blowfish-128-CBC
- Mirrored hard disks (RAID 1)

Product Make-up

- One 1 Gbit/s WAN port and Four 1 Gbit/s LAN ports
- 570 mm x 430 mm x 43 mm / 22.44" x 16.93" x 1.69" (L x W x H)
- Accessories include Ethernet cable 1m x 2, power cord (EU power plug) and extension power cord
- Net weight, article + accessories: 12.0 kg / 26.46 lbs

Technical data



Operating temperature 10°C to 30 °C
/ 50 °F to 86 °F

Article number	Article description
3806231	TOSIBOX CENTRAL LOCK

- If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.
- Photographs are not to scale and do not represent detailed images of the respective products.



TOSIBOX[®] ACCESSORIES

Various accessories available to support the main Tosibox lock units

Article number	Article description
3806232	TOSIBOX CONFIGURATION SW FILE
3806233	TOSIBOX 4G MODEM EU VER
3806234	4G USB MODEM W 2 ANTENNA CONN
3806235	ADAPTOR CABLE FROM MODEM TO ANTENNA
3806236	ANTENNA EXTERNAL W 8M CABLE
3806237	ANTENNA EXTERNAL MAGNET MOUNT W 3M CABLE
3806238	ANTENNA EXTENSION CABLE 5M
3806239	ANTENNA EXTENSION CABLE 10M
3806240	1-PORT RS232 SERIAL DEVICE SERVER
3806241	ACCESSORY PACK FOR LOCK 500

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Reliably and Safely
**Connecting the world
together**

Connecting the World through Remote Data Access, Secure Monitoring and Control

LAPP's strategic partnership with Tosibox brings you a simple, affordable and scalable way to build a secure digital access infrastructure. World class security straight out of the box.

As the world's purpose-designed OT networking standard, Tosibox holds a globally patented technology for automating remote connectivity and OT networking to devices connected to the Industrial Internet of Things (IIoT)

Along with LAPP's wide network across Asia Pacific and trusted portfolio supported by UNITRONIC®, ETHERLINE®, EPIC® and HITRONIC® brands, the collaboration will accelerate the development of a new industrial infrastructure for digital ecosystems



4

EPIC® Industrial connectors

EPIC® industrial connectors can be found everywhere in industrial machinery and plant engineering, for measuring, control and drives. EPIC® is a flexible system of housings, inserts and contacts: all extremely robust, absolutely safe and simplicity itself to assemble.

Application range

- Electronics and telecommunications
- Measurement, testing and control technology
- Industrial machinery and appliances
- Drive technology and industrial automation
- Photovoltaic plants

Solar Connectors

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SOLAR CONNECTORS 1.5KV R-TYPE	134



SOLAR CONNECTORS 1.5KV F-TYPE

Connectors suitable for the PV industry



Info

- Field-mountable and panel-mountable connectors

Benefits

- Low contact resistance for efficient power transmission ($\leq 0.3\text{m ohms}$)
- Crimp connection for field and panel mounting
- Suitable for various OLFLEX SOLAR cables

Application range

- Photovoltaic plants and solar parks

Product features

- 4mm connector system with double hook
- Inclusive of contacts

Norm references / Approvals

- UL
- TUV

Technical data



Pollution degree
2



Nominal voltage
IEC/UL 1000V/1500V



Protection rating
IP68



Temperature range
-40°C to +90°C

Article number	
3805580	FIELD MOUNT M 4 SQ MM
3805581	FIELD MOUNT M 6 SQ MM
3805582	FIELD MOUNT M 10 SQ MM
3805583	FIELD MOUNT F 4 SQ MM
3805584	FIELD MOUNT F 6 SQ MM
3805585	FIELD MOUNT F 10 SQ MM
3805586	PANEL MOUNT M 4 SQ MM
3805587	PANEL MOUNT M 6 SQ MM
3805588	PANEL MOUNT M 10 SQ MM
3805589	PANEL MOUNT F 4 SQ MM
3805590	PANEL MOUNT F 6 SQ MM
3805591	PANEL MOUNT F 10 SQ MM
3805592	BRANCH CONNECTOR 1M2F
3805593	BRANCH CONNECTOR 1F2M
3805576	TIGHTENING TOOL
3805577	DISCONNECT OR UNLOCKING TOOL
3805578	TEST JIG TOOL
3805579	CRIMP TOOL FOR 10 SQ MM SOLAR CONNECTOR

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SOLAR CONNECTORS 1.5KV R-TYPE

Connectors suitable for the PV industry



Benefits

- Quick and easy snap-in & outward lock types
- Combines 4 & 6 sq mm types into 1 part number, ensuring ease of selection
- Suitable for various ÖLFLEX® solar cables

Application range

- Connection between solar panels
- Connection of solar panels to combiner box or main control panel

Product features

- 4mm connector system with double hooks
- Connectors are inclusive of crimp contacts
- Field mount & panel mount versions available

Norm references / Approvals

- UL
- TUV

Technical data

	Pollution degree 2, 3
	Nominal voltage 1500V
	Protection rating IP68
	Temperature range -40°C to + 90°C

Article number	Description
8100571	PANEL MOUNT CONN F 4-6 SQ MM CABLE OD 8.5MM MAX
8100572	PANEL MOUNT CONN M 4-6 SQ MM CABLE OD 8.5MM MAX
8100573	PANEL MOUNT CONN F 10 SQ MM CABLE OD 8.5MM MAX
8100574	PANEL MOUNT CONN M 10 SQ MM CABLE OD 8.5MM MAX
8100575	FIELD MOUNT CONN F 4-6 SQ MM CABLE OD 4.5-7.2MM
8100576	FIELD MOUNT CONN M 4-6 SQ MM CABLE OD 4.5-7.2MM
8100577	FIELD MOUNT CONN F 10 SQ MM CABLE OD 4.5-7.2MM
8100578	FIELD MOUNT CONN M 10 SQ MM CABLE OD 4.5-7.2MM
8100579	CRIMP TOOL FOR 10 MM2 R-TYPE CONN
8100580	WRENCH TOOL FOR R-TYPE CONN
8100581	MULTI-FUNCTION TOOL FOR R-TYPE CONN
8100582	CRIMP TOOL FOR 2.5, 4 & 6 MM2 CONN

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- Photographs are not to scale and do not represent detailed images of the respective products.



5

SKINTOP®

Cable glands

Simply feed in the cable and twist. That's it. Our SKINTOP® cable glands provide secure connections in no time. The universal systems are simple but effective. They secure and centre the cable, hermetically seal it and guarantee optimum strain relief.

Application range

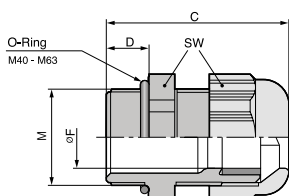
- Industrial machinery and plant engineering
- Drive systems
- Measurement and control technology
- Renewable energies
- Wherever cables need to be fastened securely and quickly

Single Entry Glands

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SKINTOP® ST-M Gland & Nut Combi Pack

SKINTOP® ST-M, increased oil-resistant plastic cable gland with variable clamping ranges, permanent vibration protection, for offshore platforms.



Benefits

- High oil-resistance for maximum reliability
- Permanent vibration protection
- Wide, variable clamping ranges
- Optimum strain relief
- Various accessories (e.g. multiple sealing inserts)

Application range

- Used in areas where a lot of cables and wires need to be inserted into housings with minimum space requirements
- Machine and equipment manufacturing
- Photovoltaic
- Automation technology
- Offshore platforms, equipment and shipyards

Norm references / Approvals

- UL File Nr. E79903
- GGVS: TÜ.EGG.020-95

Product Make-up

- Metric connection thread acc. to DIN EN 60423
- Basis for technical information DIN IEC 62444

Info

- Refer to SKINTOP® metric accessories for suitable accessories
- Now with IP69 approval! Proven to withstand the most demanding cleaning procedures for industrial machinery with high-pressure cleaners and hot water!

Technical data



Classification ETIM 5

ETIM 5.0 Class-ID: EC000441
ETIM 5.0 Class-Description: Cable screw gland



Classification ETIM 6

ETIM 6.0 Class-ID: EC000441
ETIM 6.0 Class-Description: Cable screw gland



Colour delivered

Silver grey (RAL 7001)
Light grey (RAL 7035)
Black (RAL 9005)



Material

Body: Polyamide
Seal: CR



Temperature range

Fixed: -40°C to +100°C
Dynamic: -20°C to +100°C



Protection rating

IP 66
IP 68 - 5 bar
IP 69
NEMA Type 1, 12



Caution

Refer to Appendix T21 for the installation dimensions and torques
Size M 40 x 1,5 up to M 63 x 1,5 with O-ring

Article number	Description	Colour	Clamping range ØF (mm)	SW wrench size (mm)	Overall length, C (mm)	Thread length, D (mm)	Pieces/PACK
SKINTOP® ST-M COMBI PACK							
53110068	SKINTOP ST-M 12 X 1,5 + LOCKNUT SGY	silver grey	3.5 - 7	15	30.0	8	10
53110069	SKINTOP ST-M 16 X 1,5 + LOCKNUT SGY	silver grey	4.5 - 10	19	34.0	8	10
53110070	SKINTOP ST-M 20 X 1,5 + LOCKNUT SGY	silver grey	7 - 13	25	37.0	9	10
53110071	SKINTOP ST-M 25 X 1,5 + LOCKNUT SGY	silver grey	10 - 17	30	40.0	10	10
53110072	SKINTOP ST-M 32 X 1,5 + LOCKNUT SGY	silver grey	11 - 21	36	47.0	10	5
53110073	SKINTOP ST-M 40 X 1,5 + LOCKNUT SGY	silver grey	19 - 28	46	52.0	10	5
3806006	SKINTOP ST-M 50 X 1,5 + LOCKNUT SGY	silver grey	27 - 35	55	62.0	12	1
3806007	SKINTOP ST-M 63 X 1,5 + LOCKNUT SGY	silver grey	34 - 45	66	71.0	12	1
3806008	SKINTOP ST-M 12 X 1,5 + LOCKNUT BK	black	3.5 - 7	15	30.0	8	10
3806009	SKINTOP ST-M 16 X 1,5 + LOCKNUT BK	black	4.5 - 10	19	34.0	8	10
3806010	SKINTOP ST-M 20 X 1,5 + LOCKNUT BK	black	7 - 13	25	37.0	9	10
3806011	SKINTOP ST-M 25 X 1,5 + LOCKNUT BK	black	10 - 17	30	40.0	10	10
3806012	SKINTOP ST-M 32 X 1,5 + LOCKNUT BK	black	11 - 21	36	47.0	10	5
3806013	SKINTOP ST-M 40 X 1,5 + LOCKNUT BK	black	19 - 28	46	52.0	10	5
3806014	SKINTOP ST-M 50 X 1,5 + LOCKNUT BK	black	27 - 35	55	62.0	12	1
3806015	SKINTOP ST-M 63 X 1,5 + LOCKNUT BK	black	34 - 45	66	71.0	12	1
3806016	SKINTOP ST-M 12 X 1,5 + LOCKNUT LGY	light grey	3.5 - 7	15	30.0	8	10
3806017	SKINTOP ST-M 16 X 1,5 + LOCKNUT LGY	light grey	4.5 - 10	19	34.0	8	10
3806018	SKINTOP ST-M 20 X 1,5 + LOCKNUT LGY	light grey	7 - 13	25	37.0	9	10
3806019	SKINTOP ST-M 25 X 1,5 + LOCKNUT LGY	light grey	10 - 17	30	40.0	10	10
3806020	SKINTOP ST-M 32 X 1,5 + LOCKNUT LGY	light grey	11 - 21	36	47.0	10	5
3806021	SKINTOP ST-M 40 X 1,5 + LOCKNUT LGY	light grey	19 - 28	46	52.0	10	5
3806022	SKINTOP ST-M 50 X 1,5 + LOCKNUT LGY	light grey	27 - 35	55	62.0	12	1
3806023	SKINTOP ST-M 63 X 1,5 + LOCKNUT LGY	light grey	34 - 45	66	71.0	12	1

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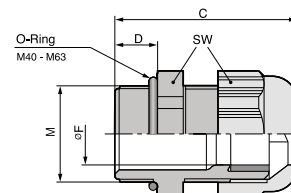


SKINTOP® ST Gland & Nut Combi Pack

SKINTOP® ST, increased oil-resistant polyamide cable gland with variable clamping ranges, permanent vibration protection and strain relief



- Refer to SKINTOP® metric accessories for suitable accessories
- Counter nut to be used: SKINTOP® GMP-GL



Benefits

- High oil-resistance for maximum reliability
- Permanent vibration protection
- Wide, variable clamping ranges
- Optimum strain relief
- Various accessories (e.g. multiple sealing inserts)

Application range

- Used in areas where a lot of cables and wires need to be inserted into housings with minimum space requirements
- Machine and equipment manufacturing
- Photovoltaic
- Automation technology

Norm references / Approvals

- UL File Nr. E79903

Product Make-up

- PG connection thread acc. to DIN 40430

Technical data

- Classification ETIM 5**
ETIM 5.0 Class-ID: EC000441
ETIM 5.0 Class-Description: Cable screw gland
- Classification ETIM 6**
ETIM 6.0 Class-ID: EC000441
ETIM 6.0 Class-Description: Cable screw gland
- Colour delivered**
Silver grey (RAL 7001)
Light grey (RAL 7035)
Black (RAL 9005)
- Material**
Body: Polyamide
Seal: CR
- Temperature range**
Fixed: -40°C to +100°C
Dynamic: -20°C to +80°C
- Protection rating**
IP 68 - 5 bar
- Caution**
Refer to Appendix T21 for the installation dimensions and torques

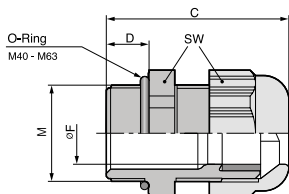
Article number	Description	Colour	Clamping range ØF (mm)	SW wrench size (mm)	Overall length, C (mm)	Thread length, D (mm)	Pieces/PACK
SKINTOP® ST PG COMBI PACK							
53110080	SKINTOP ST PG 7 + LOCKNUT SGY	silver grey	2.5 - 6.5	15	32	8	10
53110081	SKINTOP ST PG 9 + LOCKNUT SGY	silver grey	3.5 - 8	19	36	8	10
53110082	SKINTOP ST PG 11 + LOCKNUT SGY	silver grey	4 - 10	22	38	8	10
53110083	SKINTOP ST PG 13,5 + LOCKNUT SGY	silver grey	6 - 12	24	41	9	10
53110084	SKINTOP ST PG 16 + LOCKNUT SGY	silver grey	9 - 14	27	44	10	10
53110085	SKINTOP ST PG 21 + LOCKNUT SGY	silver grey	13 - 18	33	49	11	5
53110086	SKINTOP ST PG 29 + LOCKNUT SGY	silver grey	14 - 25	42	56	11	5
53110087	SKINTOP ST PG 36 + LOCKNUT SGY	silver grey	24 - 32	53	66	13	5
3806071	SKINTOP ST PG 42 + LOCKNUT SGY	silver grey	35 - 38	60	68	13	1
3806072	SKINTOP ST PG 48 + LOCKNUT SGY	silver grey	39 - 44	65	69	14	1
3806073	SKINTOP ST PG 7 + LOCKNUT BK	black	2.5 - 6.5	15	32	8	10
3806074	SKINTOP ST PG 9 + LOCKNUT BK	black	3.5 - 8	19	36	8	10
3806075	SKINTOP ST PG 11 + LOCKNUT BK	black	4 - 10	22	38	8	10
3806076	SKINTOP ST PG 13,5 + LOCKNUT BK	black	6 - 12	24	41	9	10
3806077	SKINTOP ST PG 16 + LOCKNUT BK	black	9 - 14	27	44	10	10
3806078	SKINTOP ST PG 21 + LOCKNUT BK	black	13 - 18	33	49	11	5
3806079	SKINTOP ST PG 29 + LOCKNUT BK	black	14 - 25	42	56	11	5
3806080	SKINTOP ST PG 36 + LOCKNUT BK	black	24 - 32	53	66	13	5
3806081	SKINTOP ST PG 42 + LOCKNUT BK	black	35 - 38	60	68	13	1
3806082	SKINTOP ST PG 48 + LOCKNUT BK	black	39 - 44	65	69	14	1
3806083	SKINTOP ST PG 7 + LOCKNUT LGY	light grey	2.5 - 6.5	15	32	8	10
3806084	SKINTOP ST PG 9 + LOCKNUT LGY	light grey	3.5 - 8	19	36	8	10
3806085	SKINTOP ST PG 11 + LOCKNUT LGY	light grey	4 - 10	22	38	8	10
3806086	SKINTOP ST PG 13,5 + LOCKNUT LGY	light grey	6 - 12	24	41	9	10
3806087	SKINTOP ST PG 16 + LOCKNUT LGY	light grey	9 - 14	27	44	10	10
3806088	SKINTOP ST PG 21 + LOCKNUT LGY	light grey	13 - 18	33	49	11	5
3806089	SKINTOP ST PG 29 + LOCKNUT LGY	light grey	14 - 25	42	56	11	5
3806090	SKINTOP ST PG 36 + LOCKNUT LGY	light grey	24 - 32	53	66	13	5
3806091	SKINTOP ST PG 42 + LOCKNUT LGY	light grey	35 - 38	60	68	13	1
3806092	SKINTOP ST PG 48 + LOCKNUT LGY	light grey	39 - 44	65	69	14	1

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- Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: <http://e.lapp.com/ap/>

SKINTOP® STR-M Gland & Nut Combi Pack

SKINTOP® STR-M, increased oil-resistant plastic cable gland with permanent vibration protection and reducing seal insert



Info

- Now with IP69 approval! Proven to withstand the most demanding cleaning procedures for industrial machinery with high-pressure cleaners and hot water!

Benefits

- High oil-resistance for maximum reliability
- Permanent vibration protection
- Wide, variable clamping ranges
- Optimum strain relief
- Various accessories (e.g. multiple sealing inserts)

Application range

- With reducing seal insert, to seal cables with smaller outer diameters

Norm references / Approvals

- UL File Nr. E79903
- GGVS: TÜ.EGG.020-95

Product Make-up

- Metric connection thread acc. to DIN EN 60423
- Basis for technical information DIN IEC 62444

Technical data



Classification ETIM 5

ETIM 5.0 Class-ID: EC000441
ETIM 5.0 Class-Description: Cable screw gland



Classification ETIM 6

ETIM 6.0 Class-ID: EC000441
ETIM 6.0 Class-Description: Cable screw gland



Colour delivered

Silver grey (RAL 7001)
Light grey (RAL 7035)
Black (RAL 9005)



Material

Body: Polyamide
Seal: CR



Temperature range

Fixed: -40°C to +100°C
Dynamic: -20°C to +100°C



Protection rating

IP 66
IP 68 - 5 bar
IP 69
NEMA Type 1, 12



Caution

Refer to Appendix T21 for the installation dimensions and torques
Size M 40 x 1,5 up to M 63 x 1,5 with O-ring

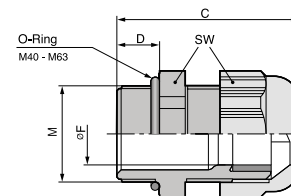
Article number	Description	Colour	Clamping range ØF (mm)	SW wrench size (mm)	Overall length, C (mm)	Thread length, D (mm)	Pieces/PACK
SKINTOP® STR-M COMBI PACK							
3806024	SKINTOP STR-M 12 X 1,5 + LOCKNUT SGY	silver grey	2 - 5	15	30.0	8	10
3806025	SKINTOP STR-M 16 X 1,5 + LOCKNUT SGY	silver grey	3.5 - 7	19	34.0	8	10
3806026	SKINTOP STR-M 20 X 1,5 + LOCKNUT SGY	silver grey	4 - 10	25	37.0	9	10
3806027	SKINTOP STR-M 25 X 1,5 + LOCKNUT SGY	silver grey	5 - 13	30	40.0	10	10
3806028	SKINTOP STR-M 32 X 1,5 + LOCKNUT SGY	silver grey	6 - 15	36	47.0	10	5
3806029	SKINTOP STR-M 40 X 1,5 + LOCKNUT SGY	silver grey	9 - 23	46	52.0	10	5
3806030	SKINTOP STR-M 50 X 1,5 + LOCKNUT SGY	silver grey	24 - 29	55	62.0	12	1
3806031	SKINTOP STR-M 63 X 1,5 + LOCKNUT SGY	silver grey	28 - 39	66	71.0	12	1
3806032	SKINTOP STR-M 12 X 1,5 + LOCKNUT BK	black	2 - 5	15	30.0	8	10
3806033	SKINTOP STR-M 16 X 1,5 + LOCKNUT BK	black	3.5 - 7	19	34.0	8	10
3806034	SKINTOP STR-M 20 X 1,5 + LOCKNUT BK	black	4 - 10	25	37.0	9	10
3806035	SKINTOP STR-M 25 X 1,5 + LOCKNUT BK	black	5 - 13	30	40.0	10	10
3806036	SKINTOP STR-M 32 X 1,5 + LOCKNUT BK	black	6 - 15	36	47.0	10	5
3806037	SKINTOP STR-M 40 X 1,5 + LOCKNUT BK	black	9 - 23	46	52.0	10	5
3806038	SKINTOP STR-M 50 X 1,5 + LOCKNUT BK	black	24 - 29	55	62.0	12	1
3806039	SKINTOP STR-M 63 X 1,5 + LOCKNUT BK	black	28 - 39	66	71.0	12	1
3806040	SKINTOP STR-M 12 X 1,5 + LOCKNUT LGY	light grey	2 - 5	15	30.0	8	10
3806041	SKINTOP STR-M 16 X 1,5 + LOCKNUT LGY	light grey	3.5 - 7	19	34.0	8	10
3806042	SKINTOP STR-M 20 X 1,5 + LOCKNUT LGY	light grey	4 - 10	25	37.0	9	10
3806043	SKINTOP STR-M 25 X 1,5 + LOCKNUT LGY	light grey	5 - 13	30	40.0	10	10
3806044	SKINTOP STR-M 32 X 1,5 + LOCKNUT LGY	light grey	6 - 15	36	47.0	10	5
3806045	SKINTOP STR-M 40 X 1,5 + LOCKNUT LGY	light grey	9 - 23	46	52.0	10	5
3806046	SKINTOP STR-M 50 X 1,5 + LOCKNUT LGY	light grey	24 - 29	55	62.0	12	1
3806047	SKINTOP STR-M 63 X 1,5 + LOCKNUT LGY	light grey	28 - 39	66	71.0	12	1

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SKINTOP® STR Gland & Nut Combi Pack

SKINTOP® STR, increased oil-resistant polyamide cable gland with wide, variable clamping ranges and reducing seal insert



Benefits

- High oil-resistance for maximum reliability
- Permanent vibration protection
- Wide, variable clamping ranges
- Optimum strain relief
- Various accessories (e.g. multiple sealing inserts)

Application range

- With reducing seal insert, to seal cables with smaller outer diameters

Norm references / Approvals

- UL File Nr. E79903

Product Make-up

- PG connection thread acc. to DIN 40430

Technical data



Classification ETIM 5

ETIM 5.0 Class-ID: EC000441
ETIM 5.0 Class-Description: Cable screw gland



Classification ETIM 6

ETIM 6.0 Class-ID: EC000441
ETIM 6.0 Class-Description: Cable screw gland



Colour delivered

Silver grey (RAL 7001)
Light grey (RAL 7035)
Black (RAL 9005)



Material

Body: Polyamide
Seal: CR



Temperature range

Fixed: -40°C to +100°C
Dynamic: -20°C to +80°C



Protection rating

IP 68 - 5 bar
NEMA Type 1, 12



Caution

Refer to Appendix T21 for the installation dimensions and torques

Article number	Description	Colour	Clamping range ØF (mm)	SW wrench size (mm)	Overall length, C (mm)	Thread length, D (mm)	Pieces/PACK
SKINTOP® STR PG COMBI PACK							
3806093	SKINTOP STR PG 7 + LOCKNUT SGY	silver grey	1.5 - 5	15	32	7.8	10
3806094	SKINTOP STR PG 9 + LOCKNUT SGY	silver grey	2 - 6	19	36	8	10
3806095	SKINTOP STR PG 11 + LOCKNUT SGY	silver grey	2 - 7	22	38	8	10
3806096	SKINTOP STR PG 13,5 + LOCKNUT SGY	silver grey	4 - 9	24	41	9	10
3806097	SKINTOP STR PG 16 + LOCKNUT SGY	silver grey	6 - 12	27	44	10	10
3806098	SKINTOP STR PG 21 + LOCKNUT SGY	silver grey	9 - 16	33	49	11	5
3806099	SKINTOP STR PG 29 + LOCKNUT SGY	silver grey	11 - 20	42	56	10.7	5
3806100	SKINTOP STR PG 36 + LOCKNUT SGY	silver grey	17 - 26	53	66	13.3	5
3806101	SKINTOP STR PG 42 + LOCKNUT SGY	silver grey	22 - 31	60	68	13.4	1
3806102	SKINTOP STR PG 48 + LOCKNUT SGY	silver grey	26 - 35	65	69	14.3	1
3806103	SKINTOP STR PG 7 + LOCKNUT BK	black	1.5 - 5	15	32	7.8	10
3806104	SKINTOP STR PG 9 + LOCKNUT BK	black	2 - 6	19	36	8	10
3806105	SKINTOP STR PG 11 + LOCKNUT BK	black	2 - 7	22	38	8	10
3806106	SKINTOP STR PG 13,5 + LOCKNUT BK	black	4 - 9	24	41	9	10
3806107	SKINTOP STR PG 16 + LOCKNUT BK	black	6 - 12	27	44	10	10
3806108	SKINTOP STR PG 21 + LOCKNUT BK	black	9 - 16	33	49	11	5
3806109	SKINTOP STR PG 29 + LOCKNUT BK	black	11 - 20	42	56	10.7	5
3806110	SKINTOP STR PG 36 + LOCKNUT BK	black	17 - 26	53	66	13.3	5
3806111	SKINTOP STR PG 42 + LOCKNUT BK	black	22 - 31	60	68	13.4	1
3806112	SKINTOP STR PG 48 + LOCKNUT BK	black	26 - 35	65	69	14.3	1
3806113	SKINTOP STR PG 7 + LOCKNUT LGY	light grey	1.5 - 5	15	32	7.8	10
3806114	SKINTOP STR PG 9 + LOCKNUT LGY	light grey	2 - 6	19	36	8	10
3806115	SKINTOP STR PG 11 + LOCKNUT LGY	light grey	2 - 7	22	38	8	10
3806116	SKINTOP STR PG 13,5 + LOCKNUT LGY	light grey	4 - 9	24	41	9	10
3806117	SKINTOP STR PG 16 + LOCKNUT LGY	light grey	6 - 12	27	44	10	10
3806118	SKINTOP STR PG 21 + LOCKNUT LGY	light grey	9 - 16	33	49	11	5
3806119	SKINTOP STR PG 29 + LOCKNUT LGY	light grey	11 - 20	42	56	10.7	5
3806120	SKINTOP STR PG 36 + LOCKNUT LGY	light grey	17 - 26	53	66	13.3	5
3806121	SKINTOP STR PG 42 + LOCKNUT LGY	light grey	22 - 31	60	68	13.4	1
3806122	SKINTOP STR PG 48 + LOCKNUT LGY	light grey	26 - 35	65	69	14.3	1

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SKINTOP® BS-M Gland & Nut Combi Pack

SKINTOP® BS-M, plastic cable gland with bending and anti-kink protection, to protect flexible cables, for moving machine parts



Benefits

- Reliable bending and anti-kink protection
- Cable conservation
- Functional reliability
- To protect flexible cables

Application range

- Cables for electrical appliances and machinery that are moved under normal use must be protected against excessive bending as required in accordance with VDE 0700-1
- Handheld device
- Robotics Industry
- Light and sound applications
- Moving machine parts

Norm references / Approvals

- UL File Nr. E79903

Product Make-up

- Metric connection thread acc. to DIN EN 60423
- Basis for technical information DIN IEC 62444

Technical data



Classification ETIM 5

ETIM 5.0 Class-ID: EC000441
ETIM 5.0 Class-Description: Cable screw gland



Classification ETIM 6

ETIM 6.0 Class-ID: EC000441
ETIM 6.0 Class-Description: Cable screw gland



Colour delivered

Silver grey (RAL 7001)
Light grey (RAL 7035)
Black (RAL 9005)



Material

Body: Polyamide
Seal: CR



Temperature range

Between -20°C to +80°C



Protection rating

IP 68 - 5 bar



Caution

Refer to Appendix T21 for the installation dimensions and torques

Article number	Description	Colour	Clamping range ØF (mm)	SW wrench size (mm)	Overall length, C (mm)	Thread length, D (mm)	Pieces/PACK
SKINTOP® BS-M COMBI PACK							
3806048	SKINTOP BS-M 12X1,5 + LOCKNUT SGY	silver grey	3.5 - 7	15	64	8	10
3806049	SKINTOP BS-M 16X1,5 + LOCKNUT SGY	silver grey	4.5 - 10	19	86	8	10
3806050	SKINTOP BS-M 20X1,5 + LOCKNUT SGY	silver grey	7 - 13	25	101	9	10
3806051	SKINTOP BS-M 25X1,5 + LOCKNUT SGY	silver grey	9 - 17	30	125	10	5
3806052	SKINTOP BS-M 32X1,5 + LOCKNUT SGY	silver grey	11 - 21	36	149	10	5
3806053	SKINTOP BS-M 12X1,5 + LOCKNUT BK	black	3.5 - 7	15	64	8	10
3806054	SKINTOP BS-M 16X1,5 + LOCKNUT BK	black	4.5 - 10	19	86	8	10
3806055	SKINTOP BS-M 20X1,5 + LOCKNUT BK	black	7 - 13	25	101	9	10
3806056	SKINTOP BS-M 25X1,5 + LOCKNUT BK	black	9 - 17	30	125	10	5
3806057	SKINTOP BS-M 32X1,5 + LOCKNUT BK	black	11 - 21	36	149	10	5
3806058	SKINTOP BS-M 12X1,5 + LOCKNUT LGY	light grey	3.5 - 7	15	64	8	10
3806059	SKINTOP BS-M 16X1,5 + LOCKNUT LGY	light grey	4.5 - 10	19	86	8	10
3806060	SKINTOP BS-M 20X1,5 + LOCKNUT LGY	light grey	7 - 13	25	101	9	10
3806061	SKINTOP BS-M 25X1,5 + LOCKNUT LGY	light grey	9 - 17	30	125	10	5
3806062	SKINTOP BS-M 32X1,5 + LOCKNUT LGY	light grey	11 - 21	36	149	10	5

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SKINTOP® BS Gland & Nut Combi Pack

SKINTOP® BS, polyamide cable gland with bending and anti-kink protection, to protect flexible cables, for moving machine parts



Benefits

- Reliable bending and anti-kink protection
- Cable conservation
- Functional reliability
- To protect flexible cables

Application range

- Cables for electrical appliances and machinery that are moved under normal use must be protected against excessive bending as required in accordance with VDE 0700-1
- Handheld device
- Robotics Industry
- Light and sound applications
- Moving machine parts

Norm references / Approvals

- UL File Nr. E79903

Product Make-up

- PG connection thread acc. to DIN 40430

Technical data

- Classification ETIM 5**
ETIM 5.0 Class-ID: EC000441
ETIM 5.0 Class-Description: Cable screw gland
- Classification ETIM 6**
ETIM 6.0 Class-ID: EC000441
ETIM 6.0 Class-Description: Cable screw gland
- Colour delivered**
Silver grey (RAL 7001)
Black (RAL 9005)
- Material**
Body: Polyamide
Seal: CR
- Temperature range**
Between -20°C to +100°C
- Protection rating**
IP 68 - 5 bar
- Caution**
Refer to Appendix T21 for the installation dimensions and torques

Article number	Description	Colour	Clamping range ØF (mm)	SW wrench size (mm)	Overall length, C (mm)	Thread length, D (mm)	Pieces/PACK
SKINTOP® BS PG COMBI PACK							
3806123	SKINTOP BS PG 7 + LOCKNUT SGY	silver grey	2.5 - 6.5	15	62	7.8	10
3806124	SKINTOP BS PG 9 + LOCKNUT SGY	silver grey	3.5 - 8	19	75	8	10
3806125	SKINTOP BS PG 11 + LOCKNUT SGY	silver grey	4 - 10	22	87	8	10
3806126	SKINTOP BS PG 13,5 + LOCKNUT SGY	silver grey	6 - 12	24	100	9	5
3806127	SKINTOP BS PG 16 + LOCKNUT SGY	silver grey	9 - 14	27	113	10	5
3806128	SKINTOP BS PG 21 + LOCKNUT SGY	silver grey	13 - 18	33	129	11	5
3806129	SKINTOP BS PG 7 + LOCKNUT BK	black	2.5 - 6.5	15	62	7.8	10
3806130	SKINTOP BS PG 9 + LOCKNUT BK	black	3.5 - 8	19	75	8	10
3806131	SKINTOP BS PG 11 + LOCKNUT BK	black	4 - 10	22	87	8	10
3806132	SKINTOP BS PG 13,5 + LOCKNUT BK	black	6 - 12	24	100	9	5
3806133	SKINTOP BS PG 16 + LOCKNUT BK	black	9 - 14	27	113	10	5
3806134	SKINTOP BS PG 21 + LOCKNUT BK	black	13 - 18	33	129	11	5

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E1FW CABLE GLAND

Suitable for Steel Wire Armoured (SWA) cables



Info

- Flameproof
- Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas
- Restricted Breathing

Application range

- The CMP E1FW Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21, and Zone 22, provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14

Product features

- CMP Type E1FW Tri-Star Triple Certified Flameproof (Type d), Increased Safety (Type e), and Restricted Breathing (Type nR) cable gland for use in Zone 1, Zone 2, Zone 21, and Zone 22 Hazardous Areas with Steel Wire Armour (SWA) cable
- Provides a Flameproof seal on the cable inner bedding
- Gas tight seal has been tested to prove compatibility with Restricted Breathing equipment
- Allows mechanical cable retention and earth continuity via the cable armour termination

Norm references / Approvals

- ATEX Certificate: CML 18ATEX1324X, CML 18ATEX4316X
- IECEx Certificate: IECEx CML 18.0181X
- EAC (Formerly GOST R, K & B): C-GB.AA87.B.00487
- INMETRO Approval: TÜV 12.0618X
- KCs Certificate: 14-GA4BO-0257X
- CCOE / PESO (India) Certificate: P444949
- CCC: 2020322313002870
- RETIE Approval: 03866
- Marine Approvals: LRS: 01/00172, DNV: E-13848, ABS: 20-LD1948801-PDA, BV: 43180/A1BV

Product Make-up

- E1FW Tri-Star Type
- BS 6121: Part 1: 1989, EN 50262: 1999

Technical data



Classification

ETIM 5.0 Class-Description: Cable screw gland
ETIM 5.0 Class-ID: EC000441



Note

Cable Type: Steel Wire Armour (SWA)
Armour Clamping: Detachable armour cone and anyway universal clamping ring. Sealing Technique: CMP inner displacement and unique CMP LRS™ outer seal - Load Retention Seal
Sealing Areas: Cable inner bedding and cable outer sheath. Optional Accessories: Locknut, Shroud, Entry thread sealing washer, Serrated washer, Earth tag, Adaptor/Reducer



Material

Body: Brass Seal: CMP SOLO LSF Thermoplastic Elastomer



Protection rating

IP66 as standard, IP67 / IP68 available on request. Deluge Proof when fitted with optional CMP O-ring in the cable gland body joint



Temperature range

-60°C up to +130°C

Article number	Article designation / size	Metric	Cable bedding diameter (mm)	Armour range (mm)	Overall cable diameter (mm)	Approx. weight (kg)
E1FW CABLE GLAND						
3804460	20S/16	M20	3.1 - 8.7	0.9 - 1.0	6.1 - 11.5	0.2
3804461	20S	M20	6.1 - 11.7	0.9 - 1.3	9.5 - 15.9	0.2
3804462	20	M20	6.5 - 14.0	0.9 - 1.3	12.5 - 20.9	0.2
3804463	25S	M25	11.1 - 20.0	1.3 - 1.6	14.0 - 22.0	0.3
3804464	25	M25	11.1 - 20.0	1.3 - 1.6	18.2 - 26.2	0.3
3804465	32	M32	17.0 - 26.3	1.6 - 2.0	23.7 - 33.9	0.5
3804466	40	M40	22.0 - 32.2	1.6 - 2.0	27.9 - 40.4	0.7
3804467	50S	M50	29.5 - 38.2	2.0 - 2.5	35.2 - 46.7	0.7
3804468	50	M50	35.6 - 44.1	2.0 - 2.5	40.4 - 53.1	0.7
3804469	63S	M63	40.1 - 50.0	2.0 - 2.5	45.6 - 59.4	1
3804470	63	M63	47.2 - 56.0	2.0 - 2.5	54.6 - 65.9	1
3804471	75S	M75	52.8 - 62.0	2.0 - 2.5	59.0 - 72.1	2
3804472	75	M75	59.1 - 68.0	2.0 - 2.5	66.7 - 78.5	3
3804473	90	M90	66.6 - 80.0	3.2	76.2 - 90.4	4

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E1FX CABLE GLAND

Suitable for Steel Wire Armoured (SWA) cables



Info

- Flameproof
- Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas
- Restricted Breathing



Application range

- The CMP E1FX Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21, and Zone 22, provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14

Product features

- CMP Type E1FX Tri-Star Triple Certified Flameproof (Type d), Increased Safety (Type e), and Restricted Breathing (Type nR) cable gland for use in Zone 1, Zone 2, Zone 21, and Zone 22 Hazardous Areas with Steel Wire Armour (SWA) cable
- Provides a Flameproof seal on the cable inner bedding
- Gas tight seal has been tested to prove compatibility with Restricted Breathing equipment
- Allows mechanical cable retention and earth continuity via the cable armour termination

Norm references / Approvals

- ATEX Certificate: CML 18ATEX1324X, CML 18ATEX4316X
- IECEx Certificate: IECEx CML 18.0181X
- EAC: TC RU C-GB.AA87.B.00487
- INMETRO Approval: TÜV 12.0618X
- KCs Certificate: 14-GA4BO-0257X
- CCOE / PESO (India) Certificate: P444949
- CCC: 2020322313002870
- RETIE Approval: 03866
- Marine Approvals: LRS: 01/00172, DNV: TAE00000Y, ABS: 20-LD1948801-PDA, BV: 43180/A1BV

Product Make-up

- E1FX Tri-Star Type
- BS 6121: Part 1: 1989, EN 50262: 1999

Technical data



Classification

ETIM 5.0 Class-Description: Cable screw gland
ETIM 5.0 Class-ID: EC000441



Note

Cable Type: Wire Braid Armour, Screened Flexible Wire Braid (e.g. CY/SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Armoured and jacketed. Armour Clamping: Detachable armour cone and anyway universal clamping ring. Sealing Technique: CMP inner displacement and unique CMP LRS™ outer seal - Load Retention Seal Sealing Areas: Cable inner bedding and cable outer sheath. Optional Accessories: Locknut, Shroud, Entry thread sealing washer, Serrated washer, Earth tag, Adaptor/Reducer



Material

Body: Brass Seal: CMP SOLO LSF Thermoplastic Elastomer



Protection rating

IP66 as standard, IP67 / IP68 available on request. Deluge Proof when fitted with optional CMP O-ring in the cable gland body joint



Temperature range

-60°C up to +130°C

Article number	Article designation / size	Metric	Cable bedding diameter (mm)	Armour range (mm)	Overall cable diameter (mm)	Approx. weight (kg)
E1FX CABLE GLAND						
3804480	20S/16	M20	3.1 - 8.7	0.9 - 1.0	6.1 - 11.5	0.2
3804481	20S	M20	6.1 - 11.7	0.9 - 1.3	9.5 - 15.9	0.2
3804482	20	M20	6.5 - 14.0	0.9 - 1.3	12.5 - 20.9	0.2
3804483	25S	M25	11.1 - 20.0	1.3 - 1.6	14.0 - 22.0	0.3
3804484	25	M25	11.1 - 20.0	1.3 - 1.6	18.2 - 26.2	0.3
3804485	32	M32	17.0 - 26.3	1.6 - 2.0	23.7 - 33.9	0.5
3804486	40	M40	22.0 - 32.2	1.6 - 2.0	27.9 - 40.4	0.7
3804487	50S	M50	29.5 - 38.2	2.0 - 2.5	35.2 - 46.7	0.8
3804488	50	M50	35.6 - 44.1	2.0 - 2.5	40.4 - 53.1	0.8
3804489	63S	M63	40.1 - 50.0	2.0 - 2.5	45.6 - 59.4	1
3804490	63	M63	47.2 - 56.0	2.0 - 2.5	54.6 - 65.9	2
3804491	75S	M75	52.8 - 62.0	2.0 - 2.5	59.0 - 72.1	2
3804492	75	M75	59.1 - 68.0	2.0 - 2.5	66.7 - 78.5	3
3804493	90	M90	66.6 - 80.0	3.2	76.2 - 90.4	4

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- Photographs are not to scale and do not represent detailed images of the respective products.

E1FU CABLE GLAND

Suitable for Steel Wire Armoured (SWA) cables



Info

- Flameproof
- Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas
- Restricted Breathing

Application range

- The CMP E1FU Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21, and Zone 22, provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14

Product features

- CMP Type E1FU Tri-Star Triple Certified Flameproof (Type d), Increased Safety (Type e), and Restricted Breathing (Type nR) cable gland for use in Zone 1, Zone 2, Zone 21, and Zone 22 Hazardous Areas with Steel Wire Armour (SWA) cable
- Provides a Flameproof seal on the cable inner bedding
- Gas tight seal has been tested to prove compatibility with Restricted Breathing equipment
- Allows mechanical cable retention and earth continuity via the cable armour termination

Norm references / Approvals

- ATEX Certificate: CML 18ATEX1324X, CML 18ATEX4316X
- IECEx Certificate: IECEx CML 18.0181X
- EAC Certificate: TC RU C-GB.AA87.B.00487
- INMETRO Approval: TÜV 12.0618X
- KCs Certificate: 14-GA4BO-0257X
- CCC: 2020322313002870
- CCOE / PESO (India) Certificate: P444949
- RETIE Approval: 03866
- Marine Approvals: LRS: 01/00173, DNV: TAE00000Y, ABS: 20-LD1948801-PDA, BV: 43180/A1BV

Product Make-up

- E1FU Tri-Star Type
- BS 6121: Part 1: 1989, EN 50262: 1999

Technical data



Classification

ETIM 5.0 Class-Description: Cable screw gland
ETIM 5.0 Class-ID: EC000441



Note

Cable Type: Steel Wire Armour (SWA), Aluminium Wire Armour (AWA), Steel Tape Armour (STA), Wire Braid Armour, Aluminium Strip Armour (ASA), Pliable Wire Armour (PWA), Screened Flexible Wire Braid (e.g. CY/SY), Armoured jacketed. Armour Clamping: Reversible armour cone and anyway universal clamping ring. Sealing Technique: CMP inner displacement and unique CMP LRS™ outer seal - Load Retention Seal. Sealing Areas: Cable inner bedding and cable outer sheath. Optional Accessories: Locknut, Shroud, Entry thread sealing washer, Serrated washer, Earth tag, Adaptor/Reducer



Material

Body: Brass Seal: CMP SOLO LSF Thermoplastic Elastomer



Protection rating

IP66 as standard, IP67 / IP68 available on request. Deluge Proof when fitted with optional CMP O-ring in the cable gland body joint



Temperature range

-60°C up to +130°C

Article number	Article designation / size	Metric	Cable bedding diameter (mm)	Armour range (mm)	Overall cable diameter (mm)	Approx. weight (kg)
E1FU CABLE GLAND						
3804440	20S/16	M20	3.1 - 8.7	0.9 - 1.0	6.1 - 11.5	0.2
3804441	20S	M20	6.1 - 11.7	0.9 - 1.3	9.5 - 15.9	0.2
3804442	20	M20	6.5 - 14.0	0.9 - 1.3	12.5 - 20.9	0.2
3804443	25S	M25	11.1 - 20.0	1.3 - 1.6	14.0 - 22.0	0.3
3804444	25	M25	11.1 - 20.0	1.3 - 1.6	18.2 - 26.2	0.3
3804445	32	M32	17.0 - 26.3	1.6 - 2.0	23.7 - 33.9	0.5
3804446	40	M40	22.0 - 32.2	1.6 - 2.0	27.9 - 40.4	0.7
3804447	50S	M50	29.5 - 38.2	2.0 - 2.5	35.2 - 46.7	0.8
3804448	50	M50	35.6 - 44.1	2.0 - 2.5	40.4 - 53.1	0.8
3804449	63S	M63	40.1 - 50.0	2.0 - 2.5	45.6 - 59.4	1
3804450	63	M63	47.2 - 56.0	2.0 - 2.5	54.6 - 65.9	2
3804451	75S	M75	52.8 - 62.0	2.0 - 2.5	59.0 - 72.1	2
3804452	75	M75	59.1 - 68.0	2.0 - 2.5	66.7 - 78.5	3
3804453	90	M90	66.6 - 80.0	3.2	76.2 - 90.4	4

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A2F CABLE GLAND

Suitable for unarmoured and braided cables



Info

- Type 'd', Type 'e', Type 'nR'
- Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas



Application range

- The CMP A2F Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21, and Zone 22, provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14

Product features

- CMP Type A2F Tri-Star Triple Certified Flameproof (Type d), Increased Safety (Type e), and Restricted Breathing (Type nR) cable gland for use in Zone 1, Zone 2, Zone 21, and Zone 22 Hazardous Areas
- Provides a Flameproof seal on the cable
- Gas tight seal has been tested to prove compatibility with Restricted Breathing equipment
- Allows mechanical cable retention and earth continuity via the cable armour termination

Norm references / Approvals

- ATEX Certificate: CML 18ATEX1321X, CML 18ATEX4313X
- IECEx Certificate: IECEx CML 18.0179X
- EAC Certificate: C-GB.AA87.B.00487
- INMETRO Certificate: TÜV 21.1075X
- KCs Certificate: 13_GA4BO_0748X, 13_GA4BO_0749X, 13_GA4BO_0750X, 14_GA4BO_0251X
- CCC: 2020322313002951
- CCOE / PESO (India) Certificate: P444949
- RETIE Certificate: 03866
- Marine Approvals: LRS: 01/00172 (E3), DNV: TAE00000Y, ABS: 20-LD1948801-PDA, BV: 43180/A1BV

Product Make-up

- A2F Tri-Star Type
- BS 6121: Part 1: 1989, EN 62444, IEC 62444

Technical data



Classification

ETIM 5.0 Class-Description: Cable screw gland
ETIM 5.0 Class-ID: EC000441



Note

Cable Type: Unarmoured / Braided. Sealing Technique: CMP Unique Displacement Seal Concept
Sealing Areas: Cable outer sheath. Accessories: Locknut, Shroud, Entry thread sealing washer, Serrated washer, Earth tag, Adaptor/Reducer



Material

Body: Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal: CMP SOLO LSF Thermoset Rubber



Protection rating

IP66, IP67 and IP68



Temperature range

-60°C up to +130°C

Article number	Article designation / size	Metric	Overall cable diameter (mm)	Approx. weight (kg)
A2F CABLE GLAND				
3804281	20S/16	M20	3.2 - 8.7	0.1
3804282	20S	M20	6.1 - 11.7	0.1
3804283	20	M20	6.5 - 14.0	0.7
3804284	25	M25	11.1 - 20.0	0.1
3804285	32	M32	17.0 - 26.3	0.2
3804286	40	M40	23.5 - 32.2	0.2
3804287	50S	M50	31.0 - 38.2	0.3
3804288	50	M50	35.6 - 44.1	0.3
3804289	63S	M63	41.5 - 50.0	0.4
3804290	63	M63	47.2 - 56.0	0.4
3804291	75S	M75	54.0 - 62.0	0.5
3804292	75	M75	61.1 - 68.0	0.5
3804293	90	M90	66.6 - 80.0	2
3804294	100	M100	76.0 - 91.0	2
3804295	115	M115	86.0 - 98.0	3
3804296	130	M130	97.0 - 115.0	4

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CW CABLE GLAND

Suitable for armoured cables, SWA and AWA



Info

- Suitable for SWA and AWA cable

Application range

- CMP CW type brass indoor and outdoor cable gland for use with all types of Single Wire Armour (SWA), Aluminium Wire Armour (AWA) cable, providing an environmental seal on the cable outer sheath.

Product features

- The CMP CW range of industrial cable glands are designed and tested to BS 6121-1:1989 meets our surpasses the requirements of EN 62444 and IEC 62444
- Produced from the Brass grade CuZn39Pb3(CW6 14N) to EN 12168

Norm references / Approvals

- GOST R Certificate: POCC.GB.HA46.H00140
- Marine Approvals: LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA

Product Make-up

- CW Type
- BS 6121: Part 1: 1989, EN 62444, IEC 62444

Technical data



Classification

ETIM 5.0 Class-Description: Cable screw gland
ETIM 5.0 Class-ID: EC000441



Note

Cable Type: SWA, AWA. Sealing Technique: Unique CMP 'LRS' TM Outer Seal (Load Retention Seal)
Sealing Areas: Cable outer sheath. Accessories: Locknut, Shroud, Entry thread sealing washer, Serrated washer, Earth tag, Adaptor/Reducer



Material

Body: Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal: CMP Thermoset Rubber



Protection rating

IP66



Temperature range

-60°C up to +130°C

Article number	Article designation / size	Metric	Cable bedding diameter (mm)	Armour range (mm)	Overall cable diameter (mm)	Approx. weight (kg)
CW CABLE GLAND						
3804300	20S/16	M20	8.7	0.8 - 1.3	6.1 - 11.5	0.1
3804301	20S	M20	11.7	0.8 - 1.3	9.5 - 15.9	0.1
3804302	20	M20	14.0	0.8 - 1.3	12.5 - 20.9	0.2
3804303	25S	M25	20.0	1.3 - 1.6	14.0 - 22.0	0.2
3804304	25	M25	20.0	1.3 - 1.6	18.2 - 26.2	0.2
3804305	32	M32	26.3	1.6 - 2.0	23.7 - 33.9	0.3
3804306	40	M40	32.2	1.6 - 2.0	27.9 - 40.4	0.5
3804307	50S	M50	38.2	2.0 - 2.5	35.2 - 46.7	1
3804308	50	M50	44.1	2.0 - 2.5	40.4 - 53.1	1
3804309	63S	M63	50.0	2.0 - 2.5	45.6 - 59.4	1
3804310	63	M63	56.0	2.0 - 2.5	54.6 - 65.9	1
3804311	75S	M75	62.0	2.5 - 3.0	59.0 - 72.1	2
3804312	75	M75	68.0	2.5 - 3.0	66.7 - 78.5	2
3804313	90	M90	80.0	3.2 - 4.0	76.2 - 90.4	3
3804314	100	M100	91.0	3.2 - 4.0	86.1 - 101.5	3
3804315	115	M115	98.0	3.2 - 4.0	101.5 - 110.3	5
3804316	130	M130	115.0	3.2 - 4.0	110.2 - 123.3	6

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PX2KREX CABLE GLAND

Suitable for armoured and braided cables, SWA and SWB



Info

- Type 'd', Type 'e', Type 'nR'
- Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas



Ex eb

Ex db

Ex ta

ExnR

Application range

- The CMP PX2KREX Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21, and Zone 22, provided that the prevailing code of practice for selection and installation is strictly observed, e.g. IEC 60079-14

Product features

- CMP Type PX2KREX Tri-Star Triple Certified Flameproof (Type d), Increased Safety (Type e), and Restricted Breathing (Type nR) cable gland for use in Zone 1, Zone 2, Zone 21, and Zone 22 Hazardous Areas
- Provides a Flameproof seal on the cable
- Gas tight seal has been tested to prove compatibility with Restricted Breathing equipment
- Allows mechanical cable retention and earth continuity via the cable armour termination

Norm references / Approvals

- ATEX Certificate: CML 18ATEX1325X, CML 18ATEX4317X
- IECEx Certificate: IECEx CML 18.0182X
- EAC Certificate: TC RU C-GB.AA87.B.00487
- INMETRO Certificate: TÜV 12.2073X
- CCC: 2020322313003190
- CCOE / PESO (India) Certificate: P444949
- RETIE Certificate: 03866
- Marine Approvals: LRS: 01/00172, DNV: TAE00000Y, ABS: 20-LD1948801-PDA, BV: 43180/A1BV

Product Make-up

- PX2KREX Type
- BS 6121: Part 1: 1989, EN 62444, IEC 62444

Technical data



Note

Cable Type: SWA, AWA, SWB, STA
Sealing Technique: Unique CMP "LRS"™ Outer Seal (Load Retention Seal)
Sealing Areas: Inner RapidEx Barrier Seal and Outer Sheath
Accessories: Locknut, Shroud, Entry thread sealing washer, Serrated washer, Earth tag, Adaptor/Reducer



Material

Body: Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal: CMP SOLO LSF Thermoset Rubber / RapidEx Resin Barrier



Protection rating

IP66, IP67 and IP68



Temperature range

-60°C up to +85°C

Article number	Article designation / size	Metric	Cable bedding diameter max. (mm)	SWB wire Ø max. (mm)	SWA wire Ø max. (mm)	Overall cable diameter (mm)	Approx. weight (kg)
PX2KREX CABLE GLAND							
3804320	20S/16	M20	11.5	0.2 - 0.5	0.8 - 1.3	33.6	0.2
3804321	20S	M20	13.0	0.2 - 0.5	0.8 - 1.3	33.6	0.2
3804322	20	M20	13.0	0.2 - 0.6	0.8 - 1.3	33.6	0.2
3804323	25S	M25	18.0	0.2 - 0.6	1.3 - 1.6	41.3	0.3
3804324	25	M25	18.0	0.2 - 0.6	1.3 - 1.6	41.3	0.3
3804325	32	M32	24.0	0.2 - 0.6	1.6 - 2.0	50.6	0.5
3804326	40	M40	30.4	0.2 - 0.8	1.6 - 2.0	60.5	1
3804327	50S	M50	37.0	0.2 - 0.8	2.0 - 2.5	66.0	1
3804328	50	M50	41.4	0.3 - 0.8	2.0 - 2.5	77.0	1
3804329	63S	M63	48.5	0.3 - 0.8	2.0 - 2.5	82.5	1
3804330	63	M63	54.2	0.3 - 0.8	2.0 - 2.5	88.0	2
3804331	75S	M75	60.3	0.3 - 0.8	2.0 - 2.5	99.0	2
3804332	75	M75	64.7	0.3 - 0.8	2.5 - 3.0	110.0	3
3804333	90	M90	75.7	0.4 - 0.8	3.2 - 4.0	126.5	5
3804334	100	M100	86.0	0.4 - 0.8	3.2 - 4.0	139.7	6

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6

Tools and cable accessories

General applications

CABLE-TY Cable Ties

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ÖLFLEX®

UNITRONIC®

ETHERLINE®

HITRONIC®

EPIC®

SKINTOP®

SILVYN®

FLEXIMARK®

ACCESSORIES

APPENDIX

CABLE-TY Cable Ties

Multi-purpose cable ties to keep things securely fastened, in the right bundles & at the right places



Benefits

- Cable accessories that are suitable for keeping things fastened together
- Economical and easy to use
- Material has good resistance to bases, oils, greases, oil derivatives and chloride solvents
- Limited resistance to acids
- Black coloured cable ties are UV resistant and can be used in outdoor applications
- Must-to have item in every industry, for cable management applications

Norm references / Approvals

- In acc. to UL62275
- Flammability according to UL94 V2

Product features

- Non-releaseable cable ties
- Cable ties come with one-off, self locking mechanism that works like straps to keep cables neat and tidy

Product Make-up

- Available in different lengths and sizes
- Available in packs of 100 pcs per article number

Technical data



Material

Natural colour: Polyamide 6.6 Natural
Black colour: Polyamide 6.6 + carbon black



Temperature range

Operating temperature -40 °C to +85 °C

Application range

- Can be used anywhere that requires fastening or bundling items together
- Most commonly used to fasten cables & wires

Article number	Description	Size (in)	Loop Tensile Strength N (lb)	Min Bundle Diameter mm (in)	Max Bundle Diameter mm (in)
CABLE-TY Cable Ties					
8100610	CABLE TIE 80 x 2.5 NAT	3.2	80 (18)	1.5 (0.06)	14.0 (0.55)
8100611	CABLE TIE 100 x 2.5 NAT	4	80 (18)	1.5 (0.06)	20.5 (0.81)
8100612	CABLE TIE 160 x 2.5 NAT	6.3	80 (18)	1.5 (0.06)	39.8 (1.57)
8100613	CABLE TIE 200 x 2.5 NAT	8	80 (18)	1.5 (0.06)	52.5 (2.07)
8100614	CABLE TIE 150 x 3.6 NAT	6	180 (40)	2.0 (0.08)	36.0 (1.42)
8100615	CABLE TIE 200 x 3.6 NAT	8	180 (40)	2.0 (0.08)	52.5 (2.07)
8100616	CABLE TIE 250 x 3.6 NAT	10	180 (40)	2.0 (0.08)	68.0 (2.68)
8100617	CABLE TIE 300 x 3.6 NAT	11.8	180 (40)	2.0 (0.08)	106.0 (4.17)
8100618	CABLE TIE 200 x 4.8 NAT	8	222 (50)	3.0 (0.12)	49.5 (1.95)
8100619	CABLE TIE 250 x 4.8 NAT	10	222 (50)	3.0 (0.12)	65.0 (2.56)
8100620	CABLE TIE 300 x 4.8 NAT	11.8	222 (50)	3.0 (0.12)	81.0 (3.19)
8100621	CABLE TIE 370 x 4.8 NAT	14.5	222 (50)	3.0 (0.12)	103.5 (4.07)
8100622	CABLE TIE 400 x 4.8 NAT	15.7	222 (50)	3.0 (0.12)	113.0 (4.45)
8100623	CABLE TIE 450 x 4.8 NAT	17.7	222 (50)	3.0 (0.12)	129.0 (5.08)
8100624	CABLE TIE 300 x 7.6 NAT	11.8	550 (124)	6.0 (0.24)	82.8 (3.26)
8100625	CABLE TIE 450 x 7.6 NAT	18	550 (124)	6.0 (0.24)	130.5 (5.14)
8100626	CABLE TIE 500 x 7.6 NAT	20	550 (124)	6.0 (0.24)	146.0 (5.75)
8100627	CABLE TIE 550 x 7.6 NAT	21.6	550 (124)	6.0 (0.24)	162.5 (6.40)
8100628	CABLE TIE 710 x 8.8 NAT	28	800 (180)	7.0 (0.28)	195.0 (7.68)
8100629	CABLE TIE 750 x 8.8 NAT	29.5	800 (180)	7.0 (0.28)	205.0 (8.07)
8100630	CABLE TIE 920 x 8.8 NAT	36	800 (180)	7.0 (0.28)	280.0 (11.02)
8100631	CABLE TIE 1220 x 8.8 NAT	48	800 (180)	7.0 (0.28)	375.5 (14.78)

Article number	Description	Size (in)	Loop Tensile Strength N (lb)	Min Bundle Diameter mm (in)	Max Bundle Diameter mm (in)
8100632	CABLE TIE 80 x 2.5 BK	3.2	80 (18)	1.5 (0.06)	14.0 (0.55)
8100633	CABLE TIE 100 x 2.5 BK	4	80 (18)	1.5 (0.06)	20.5 (0.81)
8100634	CABLE TIE 160 x 2.5 BK	6.3	80 (18)	1.5 (0.06)	39.8 (1.57)
8100635	CABLE TIE 200 x 2.5 BK	8	80 (18)	1.5 (0.06)	52.5 (2.07)
8100636	CABLE TIE 150 x 3.6 BK	6	180 (40)	2.0 (0.08)	36.0 (1.42)
8100637	CABLE TIE 200 x 3.6 BK	8	180 (40)	2.0 (0.08)	52.5 (2.07)
8100638	CABLE TIE 250 x 3.6 BK	10	180 (40)	2.0 (0.08)	68.0 (2.68)
8100639	CABLE TIE 300 x 3.6 BK	11.8	180 (40)	2.0 (0.08)	106.0 (4.17)
8100640	CABLE TIE 200 x 4.8 BK	8	222 (50)	3.0 (0.12)	49.5 (1.95)
8100641	CABLE TIE 250 x 4.8 BK	10	222 (50)	3.0 (0.12)	65.0 (2.56)
8100642	CABLE TIE 300 x 4.8 BK	11.8	222 (50)	3.0 (0.12)	81.0 (3.19)
8100643	CABLE TIE 370 x 4.8 BK	14.5	222 (50)	3.0 (0.12)	103.5 (4.07)
8100644	CABLE TIE 400 x 4.8 BK	15.7	222 (50)	3.0 (0.12)	113.0 (4.45)
8100645	CABLE TIE 450 x 4.8 BK	17.7	222 (50)	3.0 (0.12)	129.0 (5.08)
8100646	CABLE TIE 300 x 7.6 BK	11.8	550 (124)	6.0 (0.24)	82.8 (3.26)
8100647	CABLE TIE 450 x 7.6 BK	18	550 (124)	6.0 (0.24)	130.5 (5.14)
8100648	CABLE TIE 500 x 7.6 BK	20	550 (124)	6.0 (0.24)	146.0 (5.75)
8100649	CABLE TIE 550 x 7.6 BK	21.6	550 (124)	6.0 (0.24)	162.5 (6.40)
8100650	CABLE TIE 710 x 8.8 BK	28	800 (180)	7.0 (0.28)	195.0 (7.68)
8100651	CABLE TIE 750 x 8.8 BK	29.5	800 (180)	7.0 (0.28)	205.0 (8.07)
8100652	CABLE TIE 920 x 8.8 BK	36	800 (180)	7.0 (0.28)	280.0 (11.02)
8100653	CABLE TIE 1220 x 8.8 BK	48	800 (180)	7.0 (0.28)	375.5 (14.78)

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Extensive Range of Tools & Cable Accessories

TOOLS & ACCESSORIES are comprehensive tools for electricians or technicians who need the best solution for their day to day cabling work, including:

- Hand tools for cutting, stripping, clamping, crimping, mounting or installing a cable
- Terminations for cables such as end sleeves, panel connectors or lugs in various colours, sizes and style
- EMC and Earthing (Grounding) for screen (shield) connectors, copper screening tape and ground straps
- Insulation and protection tools like Insulating tube, heat shrink tube, insulation tape and their complementary tools like heat gun (hot air gun)
- Cable organisation tools including cable ties, cable mounts and their associated tools
- Cable trolley systems such as C-Profile, I-Beam and steel wire festoon systems for cables
- Enclosures for wall mounted and junction boxes of various sizes

As the leader in cabling solutions, LAPP is the expert on many aspects of handling and installing cables, connectors and other cabling components – not forgetting our great customer service and technical advice.

Notes



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UNITRONIC®
Data communication systems



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for ETHERNET technology



HITRONIC®
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Cable glands



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