

# INSTALLATIONSKABLER OG TILBEHØR

Version 3.0





# INDHOLD

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# INSTALLATIONSKABLER

## Kabler og tilbehør til projekter inden for industri og infrastruktur

Produktporteføljen "Installationskabler og tilbehør", der omfatter kabler til elinstallation i bygninger, retter sig primært mod projekter indenfor industri og infrastruktur.

Til forskel fra vores sædvanlige maskinkabler (f.eks. ÖLFLEX®, som monteres i og på maskiner – med høje krav om ydeevne i hårde miljøer), så er hovedparten af kablerne i dette sortiment i et enklere design. De er beregnet til fast installation i bygninger og til installation uden for maskiner, hvor der ikke findes noget krav om høj kemisk resistens og fleksibilitet.

I dette katalog finder du et udvalg af det produktsortiment, der er specielt beregnet til almindelig elinstallation.



## Spar ressourcer – lad os være en del af dit projekt!

LAPP har et stabilt fundament at stå på takket være vores erfaring med store projekter.

Vi har en velfungerende supportorganisation med kundeservice, sales support og produkt-specialister. Derudover kan vi trække på en række produktchefer i Sverige, og du har samtidig adgang til dedikerede projektledere hos LAPP Tyskland gennem os. De bistår os lokalt med at skaffe installationsmateriel og logistikløsninger til både det danske og svenske marked.

Kontakt os, så kan vi fortælle mere om, hvordan vi kan gøre din hverdag lettere!



## Kabler til elinstallation

Du kan finde to grupper af kabler i dette katalog: Dels de kabler, som anvendes i Europa, og som kaldes "tysk standard". Disse produkter er naturligvis CE-godkendte og kan uden videre anvendes til installationer i Danmark under den forudsætning, at de passer til installationsmetoden (nedgravet, udendørs eller indendørs). De findes både i PVC eller halogenfrit materiale.

Den anden gruppe af kabler i kataloget er kabler, der følger EN-standarden, og som er i halogenfrit materiale. Da CPR blev indført, blev stort set samtlige kabler efter EN-standarden gjort halogenfrie.

Derfor har du både mulighed for at vælge disse, eller kombinere halogenfrie med PVC-kabler efter tysk standard. PVC-kablerne kan bruges enten i eksisterende bygninger uden krav om CPR, udendørs eller i nyere bygninger, hvor kravet er den lave CPR-klasse: Eca.



## Logistik

Takket være vores store lagre i både Sverige og Tyskland kan du få kablerne hurtigt – både som standardlængder eller tromler men også som afklippede længder efter dine ønsker.

I Polen har vi et nyopført centrallager til installationskabel – både lav- og mellemspænding. Lageret er 60.000 m<sup>2</sup> stort og har en kapacitet, hvor det kan håndtere tromler, der vejer op til 14 ton.



## FOAR-PG/-TG (Cca)

Halogenfri styrkabel för elektronikutrustningar

### Info

- EMC-skärmd för störningskänsliga miljöer, UV-beständig och halogenfri
- Partvinnade ledare av av förtent fåtrådig koppar, gemensam skärm



### Fördelar

- Skärmd halogenfri instrumentkabel
- EMC-skärmd för störningskänsliga miljöer
- UV-beständig
- Halogenfri

### Användningsområden

- För styrsignaler i elektronikutrustningar
- För fasta installationer både inom- och utomhus

### Produktegenskaper

- Partvinnade ledare, gemensam skärm
- Brandspridningsklass IEC 60332-1-2, IEC 60332-3-24 CAT.C
- Halogenfri enl. IEC 60754-1, korrosiva gaser enl. IEC 60754-2

- Rökutveckling enl. IEC 61034-2
- CPR-klass: Cca -s1, d0, a1. Mer info: [lapp.se](http://lapp.se) > service > CPR

### Standarder/Godkännanden

- CENELEC HD 627 PART 4 SECTION C-2
- CENELEC HD 604

### Design/Utförande

- Ledare av förtent fåtrådig koppar
- Ledarisation av XLPE
- Skärmningar av aluminiumfolie med biledare av förtent koppar
- Ytermantel av polyolefin, grå RAL 7032 eller blå RAL 5015

### Övrigt

- Utökad datablad mot förfrågan

### Tekniska data

- Ledaridentifikation**  
Siffermärkta ledare
- Drifttoppspänning**  
150/250 V
- Minsta böjningsradie**  
8 x kabeldiametern
- Provspänning**  
Ledare-ledare 2 kV  
Ledare-skärm 1 kV
- Isolationsmotstånd**  
Min 100 MOhm x km
- Temperaturområde**  
Vid förläggning: 0°C till +70°C  
Fast: -30°C till +70°C

Art nr	Antal ledare och mm <sup>2</sup> per ledare	Ytterdiameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
<b>FOAR-PG Grå</b>				
83118100	1 x 2 x 0,5	6,3	9,6	56
83118101	2 x 2 x 0,5	7,4	19,2	80
83118102	4 x 2 x 0,5	10,4	38,4	133
83118103	8 x 2 x 0,5	13,5	76,8	202
83118104	16 x 2 x 0,5	18,0	153,6	395
83118105	24 x 2 x 0,5	21,5	230,4	559
83118107	1 x 2 x 1	7,1	19,2	74
83118108	2 x 2 x 1	8,4	38,4	109
83118109	4 x 2 x 1	11,7	76,8	189
83118110	8 x 2 x 1	16,2	153,6	334
83118111	16 x 2 x 1	20,5	307,2	608
83118112	24 x 2 x 1	25,1	460,8	878
<b>FOAR-PG Blå</b>				
83118114	1 x 2 x 0,5	6,3	9,6	56
83118115	2 x 2 x 0,5	7,4	19,2	80
83118116	4 x 2 x 0,5	10,4	38,4	133
83118117	8 x 2 x 0,5	13,5	76,8	202
83118118	16 x 2 x 0,5	18,0	153,6	395
83118119	24 x 2 x 0,5	21,5	230,4	559
83118121	1 x 2 x 1	7,1	19,2	74
83118122	2 x 2 x 1	8,4	38,4	109
83118123	4 x 2 x 1	11,7	76,8	189
83118124	8 x 2 x 1	16,2	153,6	334
83118125	16 x 2 x 1	20,5	307,2	608
83118126	24 x 2 x 1	25,1	460,8	878
<b>FOAR-TG Grå</b>				
83118130	3 x 1	7,6	29	79



## NHXMH

Halogen-free; for plaster, bricks, concrete; at high density of people and valuable assets

**Info**

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- Halogen-free alternative to the PVC installation cable NYM



### Application range

- For installation on or under the plaster
- In bricks and concrete, except direct embedding in vibrated or compressed concrete
- In dry, damp or wet interiors
- For buildings or industrial plants with a high density of people or valuable assets

### Product features

- Due to the use of halogen-free materials, the formation of toxic dioxins and furanes is considerably reduced in the event of a fire

- Minimizes damages to buildings and equipments that are caused by acidic fumes produced during combustion
- Flame-retardant according IEC 60332-1-2
- No flame-propagation according to IEC 60332-3-24

### Norm references / Approvals

- VDE 0250 part 214

### Product Make-up

- Bare copper wire conductor
- Core insulation: PE
- Filling compound over the core assembly
- Outer sheath: halogen-free polymer

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000043  
ETIM 5.0/6.0 Class-Description: House wiring cable
- Core identification code**  
Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9  
From 6 cores: black with white numbers
- Conductor stranding**  
Single or multi-wire
- Minimum bending radius**  
Fixed installation: 4 x outer 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**  
Maximum conductor temperature: +70°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>NHXMH</b>				
16020003	3 G 1,5	8.5	43.0	120
16020013	4 G 1,5	9.3	58.0	145
16020023	5 G 1,5	10.0	72.0	170
16020003	7 G 1,5	10.8	101.0	210
16020103	3 G 2,5	9.4	72.0	160
16020123	5 G 2,5	11.0	120.0	230

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
Photographs and graphics are not to scale and do not represent detailed images of the respective products.



## NYM-J

Standard cable for plaster, brickwork and immovable concrete



### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- Standard cable for plaster and brickwork



### Application range

- For installation on or under the plaster
- In bricks and concrete, except direct embedding in vibrated or compressed concrete
- In dry, damp or wet interiors
- Also suitable for outdoor use if protected against direct sunlight

### Product features

- Flame-retardant according IEC 60332-1-2

### Norm references / Approvals

- VDE 0250 Part 204

### Product Make-up

- Bare copper wire conductor
- Core insulation: Based on PVC
- Filling compound over the core assembly
- Outer sheath: Based on PVC

### Technical data

	<b>Classification ETIM 5/6</b> ETIM 5.0/6.0 Class-ID: EC000043 ETIM 5.0/6.0 Class-Description: House wiring cable
	<b>Core identification code</b> Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9 From 6 cores: black with white numbers
	<b>Conductor stranding</b> Single or multi-wire ≥ 16 mm <sup>2</sup> : multi-wire
	<b>Minimum bending radius</b> Fixed installation: 4 x outer diameter
	<b>Nominal voltage</b> U <sub>0</sub> /U: 300/500 V
	<b>Test voltage</b> 2000 V
	<b>Protective conductor</b> J = with GN-YE protective conductor O = without protective conductor
	<b>Temperature range</b> During installation: +5°C to +60°C Fixed installation: -40°C to +70°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>NYM-J</b>				
1600008	1 G 2,5	6.0	24.0	60
1600009	1 G 4	6.7	38.0	85
1600010	1 G 6	7.2	58.0	105
1600011	1 G 10	8.6	96.0	160
1600012	1 G 16	9.6	154.0	220
16000003	3 G 1,5	8.4	43.0	120
16000013	4 G 1,5	9.2	58.0	150
16000023	5 G 1,5	9.9	72.0	175
16000003	7 G 1,5	11.6	101.0	235
16000213	3 G 2,5	9.6	72.0	170
16000053	4 G 2,5	10.6	96.0	210
16000063	5 G 2,5	11.5	120.0	290
1600071	7 G 2,5	13.7	168.0	380
16010223	3 G 4	11.3	115.0	250
16000313	4 G 4	12.7	154.0	315
16000513	5 G 4	14.0	192.0	370
16010233	3 G 6	12.8	173.0	335
16000323	4 G 6	13.8	230.0	410
16000523	5 G 6	15.5	288.0	500
16000333	4 G 10	18.0	384.0	680
16000533	5 G 10	19.5	480.0	810
16000543	5 G 16	23.0	768.0	1,200
16000353	4 G 25	26.0	960.0	1,500
16000553	5 G 25	28.0	1,200.0	1,800

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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



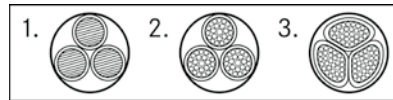


## NYJ, NYO

Fixed installation, direct burial; PVC cable with different application areas

### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- Standard cable for direct burial with different application areas
- 0,6/ 1,0 kV alternative to the PVC installation cable NYM



### Application range

- Power and control cable for fixed installation in the following applications:
- For indoor and outdoor use
- Burial without additional, suitable underground protection according to VDE standard HD 603/VDE 0276-603 - Part 3-G (point 4) governing PVC cables for direct burial: normal minimum installation depth 0.6 m, but at least 0.8 m under roads
- In concrete with a temperature below the maximum cable operating temperature of +70 °C according to the VDE standard HD 603/VDE 0276-603 - Part 3-G (point 4) governing PVC cables for direct burial

### Product features

- Flame-retardant according IEC 60332-1-2

- Current rating according to HD 603/VDE 0276-603, Part 3-G, Table 14 (buried at +20 °C ground temperature according to HD 603/VDE 0276-603, Part 3-G, point 5) for routing underground and Table 15 (in the air at an air temperature of +30 °C according to HD 603/VDE 0276-603, Part 3-G, point 5) when used outdoors; but always taking into consideration corrections/reductions to the current rating that may be necessary according to VDE 0298-4, and VDE 0298-4 (also refer to the catalogue appendix T 12) for installation in and on buildings
- Maximum DC voltage to ground 1,8 kV according to HD 603 / DIN VDE 0276-603

### Norm references / Approvals

- HD 603/VDE 0276-603 (for 1 to 5 cores)
- HD 627/VDE 0276-627 (as from 7 cores)

### Product Make-up

- Bare copper wire conductor
- Abbreviations "re", "rm", "se", "sm":  
r = round conductor form;  
s = sectorial conductor form;  
e = single-wire conductor;  
m = multi-wire conductor;
- Core insulation: Based on PVC
- Filling compound over the core assembly
- Outer sheath: Based on PVC

### Technical data

- Classification ETIM 5/6**  
 ETIM 5.0/6.0 Class-ID: EC000057  
 ETIM 5.0/6.0 Class-Description: Low voltage power cable
- Core identification code**  
 Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9  
 From 6 cores: black with white numbers
- Conductor stranding**  
 Single or multi-wire
- Minimum bending radius**  
 Single-core: 15 x outer diameter  
 Multi-core: 12 x outer diameter
- Nominal voltage**  
 U0/U: 0.6/1.0 kV
- Test voltage**  
 4000 V
- Protective conductor**  
 J = with GN-YE protective conductor  
 O = without protective conductor
- Temperature range**  
 During installation: -5°C to +50°C  
 Fixed installation: -40°C to +70°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>NYJ</b>				
1550030	1 x 25rm	13.0	240.0	380
1550038	1 x 35rm	14.0	336.0	447
1550032	1 x 50rm	15.0	480.0	650
1550033	1 x 70rm	17.0	672.0	864
1550035	1 x 120rm	21.0	1,152.0	1,400
1550037	1 x 185rm	25.0	1,776.0	2,080
15500013	3 x 1,5re	12.0	43.0	223
15500023	4 x 1,5re	13.0	58.0	256
15500033	5 x 1,5re	14.0	72.0	293
1550004	7 x 1,5re	15.0	101.0	360
1550005	10 x 1,5re	18.0	144.0	520
1550006	12 x 1,5re	19.0	173.0	560
1550084	14 x 1,5re	20.0	202.0	620
1550007	16 x 1,5re	21.0	230.0	680
1550008	19 x 1,5re	22.0	274.0	760
1550009	24 x 1,5re	24.0	346.0	900
1550086	30 x 1,5re	26.0	432.0	1,100
15500103	3 x 2,5re	13.0	72.0	272
15500113	4 x 2,5re	14.0	96.0	316
15500123	5 x 2,5re	15.0	120.0	323
1550013	7 x 2,5re	16.0	168.0	450
1550090	10 x 2,5re	20.0	240.0	630
1550091	12 x 2,5re	20.0	288.0	680
1550092	14 x 2,5re	21.0	336.0	790
1550094	19 x 2,5re	23.0	456.0	990

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1550096	24 x 2,5re	26.0	576.0	1,300
1550097	30 x 2,5re	28.0	720.0	1,400
15500583	3 x 4re	15.0	115.0	373
15500203	4 x 4re	16.0	154.0	439
15500263	5 x 4re	17.0	192.0	510
15500593	3 x 6re	16.0	173.0	466
15500213	4 x 6re	17.0	230.0	547
15500273	5 x 6re	19.0	288.0	640
15500603	3 x 10re	18.0	288.0	629
15500223	4 x 10re	19.0	384.0	743
15500823	5 x 10re	21.0	480.0	899
15500613	3 x 16re	20.0	461.0	850
15500233	4 x 16re	22.0	614.0	1,039
15500833	5 x 16re	23.0	768.0	1,240
15500713	3 x 25rm/16re	25.0	874.0	1,595
15500243	4 x 25rm	27.0	960.0	1,620
15500153	3 x 35sm/16re	27.0	1,162.0	1,718
15500753	4 x 35sm	27.0	1,344.0	1,916
15500163	3 x 50sm/25rm	31.0	1,680.0	2,383
15500253	4 x 50sm	31.0	1,920.0	2,639
15500173	3 x 70sm/35sm	33.0	2,352.0	3,196
15500763	4 x 70sm	35.0	2,688.0	3,576
15500183	3 x 95sm/50sm	38.0	3,216.0	4,271
15500773	4 x 95sm	40.0	3,648.0	4,746
15500723	3 x 120sm/70sm	41.0	4,128.0	5,281
15500783	4 x 120sm	43.0	4,608.0	5,813
15500733	3 x 150sm/70sm	46.0	4,992.0	6,408
15500793	4 x 150sm	48.0	5,760.0	7,263
15500743	3 x 185sm/95sm	50.0	6,240.0	7,909
15500803	4 x 185sm	53.0	7,104.0	8,905
15500193	3 x 240sm/120sm	57.0	8,064.0	10,162
15500813	4 x 240sm	60.0	9,216.0	11,430
<b>NY-Y-O</b>				
1550205	1 x 10re	10.0	96.0	176
1550206	1 x 16re	11.0	154.0	239
1550207	1 x 25rm	13.0	240.0	380
1550208	1 x 35rm	14.0	336.0	447
1550209	1 x 50rm	15.0	480.0	650
1550210	1 x 70rm	17.0	672.0	864
1550211	1 x 95rm	19.0	912.0	1,132
1550212	1 x 120rm	21.0	1,152.0	1,405
1550213	1 x 150rm	22.0	1,440.0	1,710
1550214	1 x 185rm	25.0	1,776.0	2,080
1550215	1 x 240rm	27.0	2,304.0	2,669
1550216	1 x 300rm	30.0	2,880.0	3,305
1550218	1 x 500rm	39.0	4,800.0	5,400
15502003	2 x 1,5re	11.0	29.0	210
15502193	2 x 2,5re	12.0	48.0	250
15502203	2 x 4re	14.0	77.0	360
15502213	2 x 6re	15.0	115.0	400
15502223	2 x 10re	17.0	192.0	500
15502533	4 x 16re	22.0	614.0	1,039
15502543	4 x 25rm	27.0	960.0	1,620
15502563	4 x 50sm	31.0	1,920.0	2,639
15502573	4 x 70sm	35.0	2,688.0	3,576
15502583	4 x 95sm	40.0	3,648.0	4,746

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: excluding copper. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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

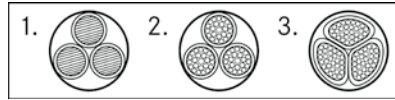


**NYCWX**

Fixed installation, direct burial; PVC cable with concentric, wave-like copper conductor and cross-conductive spiral

**Info**

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- With concentric, wave-like copper conductor



**Benefits**

- Concentric conductor above all as PE
- Easier connection due to the waveform of the concentric copper conductor

**Application range**

- Power and control cable for fixed installation in the following applications:
- For indoor and outdoor use
- Burial without additional, suitable underground protection according to VDE standard HD 603/VDE 0276-603 - Part 3-G (point 4) governing PVC cables for direct burial: normal minimum installation depth 0.6 m, but at least 0.8 m under roads
- In concrete with a temperature below the maximum cable operating temperature of +70 °C according to the VDE standard HD 603/VDE 0276-603 - Part 3-G (point 4) governing PVC cables for direct burial

**Product features**

- Flame-retardant according IEC 60332-1-2

- Current rating according to HD 603/VDE 0276-603, Part 3-G, Table 14 (buried at +20 °C ground temperature according to HD 603/VDE 0276-603, Part 3-G, point 5) for routing underground and Table 15 (in the air at an air temperature of +30 °C according to HD 603/VDE 0276-603, Part 3-G, point 5) when used outdoors; but always taking into consideration corrections/reductions to the current rating that may be necessary according to VDE 0298-4, and VDE 0298-4 (also refer to the catalogue appendix T12) for installation in and on buildings

**Norm references / Approvals**

- HD 603/VDE 0276-603 for NYCWX with 3 or 4 cores and the relevant concentric protective conductor

**Product Make-up**

- Bare copper wire conductor
- Abbreviations “re”, “rm”, “se”, “sm”:  
r = round conductor form;  
s = sectorial conductor form;  
e = single-wire conductor;  
m = multi-wire conductor;
- Core insulation: Based on PVC
- Filling compound over the core assembly
- Concentric, wave-like, outer conductor made of bare copper strands with inductance-reducing, cross-conductive copper bond counter spiral
- Outer sheath: Based on PVC

**Technical data**

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000057  
ETIM 5.0/6.0 Class-Description: Low voltage power cable
- Core identification code**  
Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9
- Conductor stranding**  
Single or multi-wire
- Minimum bending radius**  
Fixed installation: 12 x outer diameter
- Nominal voltage**  
U0/U: 0.6/1.0 kV
- Test voltage**  
4000 V
- Temperature range**  
During installation: -5°C to +50°C  
Fixed installation: -40°C to +70°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>NYCWX</b>				
15505003	2 x 10re/10	19.0	312.0	610
15505263	3 x 10re/10	20.0	408.0	775
15505403	4 x 10re/10	21.0	504.0	897
15505273	3 x 16re/16	22.0	643.0	1,066
15505413	4 x 16re/16	24.0	796.0	1,250
15505283	3 x 25rm/25	26.0	1,003.0	1,584
15505423	4 x 25rm/16	28.0	1,142.0	1,822
15505303	3 x 35sm/35	26.0	1,402.0	1,710
15505433	4 x 35sm/16	29.0	1,526.0	2,146
15505163	3 x 50sm/50	30.0	2,000.0	2,368
15505443	4 x 50sm/25	33.0	2,203.0	3,031
15505453	4 x 70sm/35	38.0	3,082.0	4,056
15505143	3 x 95sm/50	38.0	3,296.0	4,256
15505323	3 x 95sm/95	39.0	3,791.0	4,600
15505463	4 x 95sm/50	43.0	4,208.0	5,364
15505153	3 x 120sm/70	41.0	4,236.0	5,314
15505473	4 x 120sm/70	46.0	5,388.0	6,748
15505353	3 x 150sm/70	45.0	5,100.0	6,344
15505483	4 x 150sm/70	51.0	6,540.0	8,159
15505173	3 x 185sm/95	50.0	6,383.0	8,054

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: excluding copper. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
Photographs and graphics are not to scale and do not represent detailed images of the respective products.

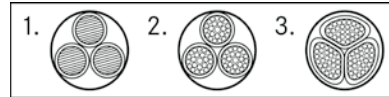


## N2XH

Halogen-free power cable with rated voltage 0,6/1 kV for fixed installation

### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- Halogen-free alternative to the PVC installation cable NYY-J, NYY-O



### Application range

- For installation on or under the plaster
- Fixed installation indoor, in air or concrete
- For buildings or industrial plants with a high density of people or valuable assets
- No direct burial or installation in water
- Outdoor laying only when protected from direct sunlight and other external impacts

### Product features

- Flame-retardant according to IEC 60332-1-2
- No flame-propagation according to IEC 60332-3-24
- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)  
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)

- Low smoke density according to IEC 61034-2

### Norm references / Approvals

- HD 604/VDE 0276-604

### Product Make-up

- Bare copper wire conductor
- Abbreviations “re”, “rm”, “se”, “sm”:  
r = round conductor form;  
s = sectorial conductor form;  
e = single-wire conductor;  
m = multi-wire conductor;
- Core insulation: Cross-linked Polyethylen (XLPE)
- Filling compound over the core assembly
- Outer sheath: halogen-free, thermoplastic polyolefin compound

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000057  
ETIM 5.0/6.0 Class-Description: Low voltage power cable
- Core identification code**  
Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9  
From 6 cores: black with white numbers
- Conductor stranding**  
Single or multi-wire
- Minimum bending radius**  
Single-core: 15 x outer diameter  
Multi-core: 12 x outer diameter
- Nominal voltage**  
U0/U: 0.6/1.0 kV
- Test voltage**  
4000 V
- Protective conductor**  
J = with GN-YE protective conductor  
O = without protective conductor
- Temperature range**  
During installation: -5°C bis +90°C  
Fixed installation: -40°C bis +90°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>N2XH-O</b>				
1550556	1x1,5 RE	5.3	14.0	40.1
1550557	1x2,5 RE	6.4	24.0	66
3017600	1x4 RE	6.6	38.0	77.6
30017645	1x6 RE	7.1	58.0	98.6
30017646	1x10 RE	7.9	96.0	140.7
1550561	1x16 RE	8.8	154.0	199.9
30017648	1x25 RM	10.8	240.0	305.2
30017649	1x35 RM	12.0	336.0	401.6
30017650	1x50 RM	13.3	480.0	525.9
30017651	1x70 RM	15.0	672.0	728.7
30017652	1x95 RM	17.0	912.0	1,001.6
30017653	1x120 RM	18.6	1,152.0	1,225.8
3017601	1x150 RM	20.5	1,440.0	1,477.7
3017602	1x185 RM	23.1	1,776.0	1,878.2
3017603	1x240 RM	25.4	2,304.0	2,432.9
1112935	1x300 RM	28.1	2,880.0	2,965.7
30017654	2x1,5 RE	9.1	29.0	113.5
30017655	2x2,5 RE	10.0	48.0	177.4
30017656	2x4 RE	10.9	77.0	296.5
30017657	2x6 RE	11.9	115.0	243.5
30017658	2x10 RE	13.6	192.0	360.6
1550578	2x16 RE	15.7	307.0	528.5
3017605	2x25 RM	19.9	480.0	844.4
35002466	3x1,5 RE	9.6	43.0	130.7
1550581	3x2,5 RE	10.1	72.0	170.1
<b>N2XH-J</b>				
1112940	1x25 RM	10.8	240.0	305.2
1112941	1x35 RM	12.0	336.0	401.5

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1112942	1x50 RM	13.3	480.0	525.8
1112943	1x70 RM	15.0	672.0	728.6
1112944	1x95 RM	17.0	912.0	1,001.4
1112945	1x120 RM	18.7	1,152.0	1,225.3
1112946	1x150 RM	20.4	1,440.0	1,477
1112947	1x185 RM	22.8	1,776.0	1,877.8
1112948	1x240 RM	25.4	2,304.0	2,432.5
1112949	1x300 RM	27.9	2,880.0	2,960.7
30017659	3x1,5 RE	9.6	43.0	141.1
30017660	3x2,5 RE	10.5	72.0	181.6
30017661	3x4 RE	11.4	115.0	228
30017662	3x6 RE	12.5	173.0	299.5
30017663	3x10 RE	14.3	288.0	454.3
1550601	3x16 RE	16.5	461.0	663
30017665	3x25 RM	21.0	720.0	1,046.9
1550603	3x35 SM	21.9	1,080.0	1,249.7
1550604	3x50 SM	23.9	1,440.0	1,579.2
1550605	3x70 SM	27.2	2,016.0	2,267
1550606	3x95 SM	30.3	2,736.0	2,982.4
1550607	3x120 SM	33.6	3,456.0	3,708.6
1550608	3x150 SM	37.1	4,320.0	4,552.7
1550609	3x185 SM	41.5	5,328.0	5,669.5
1550610	3x240 SM	46.9	6,912.0	7,370.3
30017671	4x1,5 RE	10.3	58.0	154.5
30017672	4x2,5 RE	11.2	96.0	203.5
30017673	4x4 RE	12.4	154.0	277.2
30017674	4x6 RE	13.6	230.0	366.2
30017675	4x10 RE	15.7	384.0	573.7
1550616	4x16 RE	18.4	614.0	825.2

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)	Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
30017677	4x25 RM	22.9	960.0	1,296.9	3017612	10x1,5 RE	14.9	144.0	329
1550618	4x35 SM	23.4	1,344.0	1,561.6	3017613	10x2,5 RE	16.6	240.0	441.6
1550619	4x50 SM	26.8	1,920.0	2,065	30017693	12x1,5 RE	15.4	173.0	367.3
1550620	4x70 SM	31.0	2,688.0	2,911.8	30017694	12x2,5 RE	17.0	288.0	505
1550621	4x95 SM	34.7	3,648.0	3,934.6	3017614	12x4 RE	19.3	461.0	701.2
1550622	4x120 SM	38.6	4,608.0	4,883.6	3017615	14x1,5 RE	16.2	202.0	399.8
1550623	4x150 SM	42.6	5,760.0	6,005.2	3017616	14x2,5 RE	18.1	336.0	567.9
1550624	4x185 SM	47.4	7,104.0	7,488.7	3017617	19x1,5 RE	17.9	274.0	516.4
1550625	4x240 SM	53.8	9,216.0	9,771.9	3017618	19x2,5 RE	19.9	456.0	721.2
30017683	5x1,5 RE	11.1	72.0	193.3	3017619	24x1,5 RE	20.9	346.0	636.2
30017684	5x2,5 RE	12.1	120.0	251.9	3017620	24x2,5 RE	23.2	576.0	910.2
30017685	5x4 RE	13.5	192.0	343.6	3017621	30x1,5 RE	22.0	432.0	741.9
30017686	5x6 RE	14.8	288.0	450.5	3017622	30x2,5 RE	24.9	720.0	1,085.5
30017687	5x10 RE	17.1	480.0	684.9	1550649	3x50/25 SM	27.2	1,680.0	1,934
1550631	5x16 RE	20.0	768.0	1,009.5	1550650	3x70/35 SM	30.5	2,352.0	2,621
30017689	5x25 RM	25.1	1,200.0	1,611.4	1550651	3x95/50 SM	35.5	3,216.0	3,636.5
1550633	5x35 RM	28.5	1,680.0	2,109.7	1550652	3x120/70 SM	39.7	4,128.0	4,626.4
30017690	7x1,5 RE	11.9	101.0	232.2	1550653	3x150/70 SM	43.4	4,992.0	5,494.9
30017691	7x2,5 RE	13.2	168.0	319	1550654	3x185/95 SM	47.7	6,240.0	6,912.3
30017692	7x4 RE	14.8	269.0	436.6	1550655	3x240/120 SM	52.7	8,064.0	8,632.3

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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

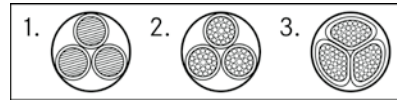


**N2XCH**

Halogen-free power cable with concentric copper conductor

**Info**

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- Halogen-free alternative to the PVC installation cable NYCY
- With concentric copper conductor



**Benefits**

- Concentric conductor above all as PE

**Application range**

- For installation on or under the plaster
- Fixed installation indoor, in air or concrete
- For buildings or industrial plants with a high density of people or valuable assets
- No direct burial or installation in water
- Outdoor laying only when protected from direct sunlight and other external impacts

**Product features**

- Flame-retardant according IEC 60332-1-2
- No flame-propagation according to IEC 60332-3-24
- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)  
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)

- Low smoke density according to IEC 61034-2

**Norm references / Approvals**

- HD 604/VDE 0276-604

**Product Make-up**

- Bare copper wire conductor
- Abbreviations “re”, “rm”, “se”, “sm”:  
r = round conductor form;  
s = sectorial conductor form;  
e = single-wire conductor;  
m = multi-wire conductor;
- Core insulation: Cross-linked Polyethylen (XLPE)
- Filling compound over the core assembly
- Concentric conductor: bare copper wires
- Outer sheath: halogen-free, thermoplastic polyolefin compound

**Technical data**

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000057  
ETIM 5.0/6.0 Class-Description: Low voltage power cable
- Core identification code**  
Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9  
From 6 cores: black with white numbers
- Conductor stranding**  
Single or multi-wire
- Minimum bending radius**  
Single-core: 15 x outer diameter  
Multi-core: 12 x outer diameter
- Nominal voltage**  
U0/U: 0.6/1.0 kV
- Test voltage**  
4000 V
- Temperature range**  
During installation: -5°C bis +90°C  
Fixed installation: -40°C bis +90°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>N2XCH</b>				
30017695	2x1,5 RE/1,5	12.0	53.0	196.4
30017696	2x2,5 RE/2,5	12.8	80.0	251
30017697	2x4 RE/4	14.1	122.0	303.2
30017698	2x6 RE/6	15.2	183.0	400.4
30017699	2x10 RE/10	17.1	311.0	545.4
1550661	2x16 RE/16	19.3	490.0	759.2
30017701	3x1,5 RE/1,5	12.4	67.0	220.9
30017702	3x2,5 RE/2,5	13.3	103.0	282.9
30017703	3x4 RE/4	14.7	160.0	357.2
30017704	3x6 RE/6	15.9	242.0	451.7
30017705	3x10 RE/10	18.0	406.0	646.2
1550667	3x16 RE/16	18.9	643.0	825.1
30017707	3x25 RM/16	24.7	902.0	1,258.3
30017708	3x35 RM/16	29.2	1,190.0	1,795
1550670	3x50 SM/25	28.0	1,723.0	1,992.2
1550671	3x70 SM/35	32.1	2,410.0	2,740.9
1550672	3x95 SM/50	35.1	3,296.0	3,604.4
1550673	3x120 SM/70	39.0	4,236.0	4,594.4
1550674	3x150 SM/70	43.0	5,100.0	5,470.2
1550675	3x185 SM/95	47.7	6,381.0	6,894.8
1550676	3x240 SM/120	54.6	8,240.0	8,830.3
30017716	4x1,5 RE/1,5	13.1	80.0	246.3
30017717	4x2,5 RE/2,5	14.1	129.0	310
30017718	4x4 RE/4	15.3	202.0	416.2
30017719	4x6 RE/6	17.0	296.0	516.1

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
30017720	4x10 RE/10	18.0	504.0	709
1550682	4x16 RE/16	21.8	796.0	1,077.5
30017722	4x25 RM/16	26.4	1,142.0	1,556.7
30017723	4x35 RM/16	29.1	1,526.0	2,025
1550685	4x50 SM/25	31.2	2,203.0	2,481
1550686	4x70 SM/35	36.6	3,082.0	3,483.8
1550687	4x95 SM/50	40.1	4,208.0	4,629.9
1550688	4x120 SM/70	44.7	5,388.0	5,842.6
1550689	4x150 SM/70	48.0	6,540.0	6,911.5
1550690	4x185 SM/95	53.9	8,195.0	8,760.1
1550691	4x240 SM/120	61.1	10,546.0	11,362.2
30017730	7x1,5 RE/2,5	13.4	133.0	305.7
30017731	7x2,5 RE/2,5	16.0	200.0	417.7
30017733	7x4 RE/4	17.9	315.0	576.6
30017734	7x6 RE/6	19.0	470.0	850
1550696	10x1,5 RE/2,5	18.5	177.0	402.6
1550697	10x2,5 RE/4	19.8	287.0	575.7
30017735	12x1,5 RE/2,5	18.3	205.0	469.3
30017736	12x2,5 RE/4	20.3	334.0	640.3
30017737	12x4 RE/6	23.3	528.0	876.8
1550701	16x1,5 RE/4	21.2	275.0	610.9
1550702	16x2,5 RE/6	23.2	450.0	813.3
30017738	24x1,5 RE/6	24.3	413.0	847.7
30017739	24x2,5 RE/10	27.9	695.0	1,155.2
30017740	30x1,5 RE/6	25.4	499.0	969.9
3017741	30x2,5 RE/10	28.2	840.0	1,312.6

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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



## EXQJ 0,6/1 kV

Halogenfri kraftkabel med koncentrisk skyddsledare



### Fördelar

- Mångsidig kraftkabel för alla typer av strömförsörjning och strömdistribution
- Vid brand avger kabeln inga halogener samt har låg rökutveckling vilket underlättar utrymning
- Brandgaserna bildar ingen saltsyra vilket minskar risken för sekundärskador på exempelvis elektronisk utrustning
- Får förläggas inom- och utomhus samt direkt i mark. Dock ej för permanent nedsänkning i vatten. Kan även förläggas i rör/kanal
- Får förläggas i explosionsfarliga rum

### Produktegenskaper

- Halogenfri enligt IEC 60754-1
- Korrosiva gaser enligt IEC 60754-2

- Rökutveckling enligt DIN EN IEC 61034-2
- Design baserad på SS 424 14-18, HD603 S1 3-L
- CPR-klass: Dca-s2-d2-a2. Mer info: [lapp.se](http://lapp.se) > service > CPR

### Design/Utförande

- Ledare av solid vamlöddad koppar, klass 1 enligt SS EN 60228
- Ledarisolering av halogenfri tvärbunden PEX typ DIX3 (enligt HD603.1)
- RE = runda ledare. Ledare tvinnade + eventuell filler
- Koncentrisk skyddsledare av koppartrådar med motspiral av kopparband
- Yttermantel av halogenfri blandning typ HM4 (enligt HD603.1), svart. Halogenfri fyllnad, alternativt bandad fyllnad

### Tekniska data



#### Ledaridentifikation

3-ledare: brun, svart, grå  
4-ledare: blå, brun, svart, grå



#### Minsta böjningsradie

12 x kabeldiametern



#### Märkspänning

U<sub>0</sub>/U: 0,6/1 kV



#### Provspänning

3500 VAC



#### Temperaturområde

Fast: -30°C till +90°C, max kortslutningstemperatur: +250°C  
Lägsta kabeltemperatur vid förläggning: 0°C

Art nr	Antal ledare och mm <sup>2</sup> per ledare	Ytterdiameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
83113601	3 X 2,5 RE/2,5	12,8	92	256
83113602	3 X 6 RE/6	15,6	230	433
83113603	3 X 10 RE/10	17,4	384	616
83113604	4 X 2,5 RE/2,5	13,6	116	292
83113605	4 X 6 RE/6	16,6	288	503
83113606	4 X 10 RE/10	18,6	480	724

För övriga dimensioner, vänligen kontakta oss.  
Minsta beställningskvantitet är 3 000 m. Mindre kvantiteter vid förfrågan.



## FXQJ 0,6/1 kV

Halogenfri kraftkabel med koncentrisk skyddsledare



### Fördelar

- Mångsidig kraftkabel för alla typer av strömförsörjning och strömdistribution
- Vid brand avger kabeln inga halogener samt har låg rökutveckling vilket underlättar utrymning
- Brandgaserna bildar ingen saltsyra vilket minskar risken för sekundärskador på exempelvis elektronisk utrustning
- Får förläggas inom- och utomhus samt direkt i mark. Dock ej för permanent nedsänkning i vatten. Kan även förläggas i rör/kanal
- Får förläggas i explosionsfarliga rum

### Produktgenskaper

- Halogenfri enligt IEC 60754-1
- Korrosiva gaser enligt IEC 60754-2

- Rökutveckling enligt DIN EN IEC 61034-2
- Design baserad på SS 424 14-18, HD604 5-D
- CPR-klass: Dca-s2-d2-a2. Mer info: lapp.se > service > CPR

### Design/Utförande

- Ledare av fåtrådig vavgjodgd koppar klass 2 enligt SS EN 60228
- Ledarisolering av halogenfri tvärbunden PEX typ DIX3 (enligt HD603.1)
- RM = rund ledare, SM = sektorformad ledare. Ledare tvinnade + eventuell filler
- Koncentrisk skyddsledare av koppartrådar med motspiral av kopparband
- Yttermantel av halogenfri blandning typ HM4 (enligt HD603.1), svart. Halogenfri fyllnad, alternativt bandad fyllnad

### Tekniska data

- Ledaridentifikation**  
3-ledare: brun, svart, grå  
4-ledare: blå, brun, svart, grå
- Minsta böjningsradie**  
12 x kabeldiametern
- Märkspänning**  
U<sub>0</sub>/U: 0,6/1 kV
- Provspänning**  
3500 VAC
- Temperaturområde**  
Fast: -30°C till +90°C, max kortslutningstemperatur: +250°C  
Lägsta kabeltemperatur vid förläggning: 0°C

Art nr	Antal ledare och mm <sup>2</sup> per ledare	Ytterdiameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
83113701	3 X 16 RM/16	20,2	614	773
83113702	3 X 25 RM/16	23,8	874	1 066
83113703	3 X 35 RM/16	26,0	1 162	1 350
83113704	3 X 50 SM/25	25,6	1 680	1 788
83113705	3 X 70 SM/35	29,6	2 352	2 526
83113706	3 X 95 SM/50	32,6	3 216	3 419
83113707	4 X 16 RM/16	21,8	768	937
83113708	4 X 25 RM/16	25,8	1 114	1 320
83113709	4 X 35 RM/16	25,8	1 498	1 686
83113710	4 X 50 SM/25	28,8	2 160	2 277
83113711	4 X 70 SM/35	33,2	3 024	3 218
83113712	4 X 95 SM/50	36,8	4 128	4 362

För övriga dimensioner, vänligen kontakta oss.  
Minsta beställningskvantitet är 1 000 m. Mindre kvantiteter vid förfrågan.





## AXQJ 0,6/1 kV

Halogenfri kraftkabel med aluminiumledare och koncentrisk skyddsledare



### Fördelar

- Kraftkabel för strömdistribution och strömförsörjning, till exempel som serviskabel
- Vid brand avger kabeln inga halogener samt har låg rökutveckling vilket underlättar utrymning
- Brandgaserna bildar ingen saltsyra vilket minskar risken för sekundärskador på exempelvis elektronisk utrustning
- Får förläggas inom- och utomhus samt direkt i mark. Dock ej för permanent nedsänkning i vatten. Kan även förläggas i rör/kanal
- Får förläggas i explosionsfarliga rum

### Produktegenskaper

- Halogenfri enligt IEC 60754-1
- Korrosiva gaser enligt IEC 60754-2

- Rökutveckling enligt DIN EN IEC 61034-2
- Design baserad på SS 424 14-18, HD603 5-P
- CPR-klass: Dca-s2-d2-a2. Mer info: [lapp.se](http://lapp.se) > service > CPR

### Design/Utförande

- Ledare av flertrådig vamlöddad aluminium klass 2 enligt SS EN 60228
- Ledarisolering av halogenfri tvärbunden PEX typ DIX3 (enligt HD603.1)
- SM = sektorformad ledare. Ledare tvinnade + eventuell filler
- Koncentrisk skyddsledare av koppartrådar med motspiral av kopparband
- Ytermantel av halogenfri blandning typ HD 604 S1/A3 part 5G & part 5I, svart. Halogenfri fyllnad alternativt bandad fyllnad

### Tekniska data

- Ledaridentifikation**  
3-ledare: brun, svart, grå  
4-ledare: blå, brun, svart, grå
- Minsta böjningsradie**  
12 x kabeldiametern
- Märkspänning**  
U<sub>0</sub>/U: 0,6/1 kV
- Provspänning**  
4000 VAC
- Temperaturområde**  
Fast: -30°C till +90°C, max kortslutningstemperatur: +250°C  
Lägsta kabeltemperatur vid förläggning: 0°C

Art nr	Antal ledare och mm <sup>2</sup> per ledare	Ytterdiameter (mm)	Aluminiumindex (kg/km)	Kopparindex (kg/km)	Vikt (kg/km)
83113801	3 X 50 SM/15	27,0	435	144	865
83113802	3 X 70 SM/21	31,2	609	202	1 175
83113803	3 X 95 SM/29	34,3	827	278	1 522
83113804	3 X 120 SM/41	37,6	1 044	394	1 933
83113805	3 X 150 SM/41	41,5	1 305	394	2 271
83113806	3 X 185 SM/57	45,7	1 610	547	2 857
83113807	3 X 240 SM/72	51,3	2 088	692	3 629
83113808	4 X 50 SM/15	30,3	580	144	1 075
83113809	4 X 70 SM/21	34,9	812	202	1 460
83113810	4 X 95 SM/29	38,7	1 102	278	1 914
83113811	4 X 120 SM/41	42,6	1 392	394	2 400
83113812	4 X 150 SM/41	46,9	1 740	394	2 856
83113813	4 X 185 SM/57	51,3	2 146	547	3 551
83553814	4 X 240 SM/72	57,7	2 784	692	4 517

För övriga dimensioner, vänligen kontakta oss.  
Minsta beställningskvantitet är 1 000 m. Mindre kvantiteter vid förfrågan.

# KABLER TIL MELLEMSPÆNDING

## Skandinaviske varianter



### AXLJ-F LT

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig aluminium overlappet med halvledende tape
- Isolation af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Yderkappe af PE (Polyetylen)
- Lederopbygning 1x50 RM/16 mm<sup>2</sup> op til 1x630 RM/35 mm<sup>2</sup>
- Lederopbygning 3x50 RM/16 mm<sup>2</sup> op til 3x240 RM/35 mm<sup>2</sup>
- Langsgående vandtæt.



### AXLJ-TT

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig aluminium overlappet med halvledende tape
- Isolation af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Vandtæt tape og metalltape, som hæfter på yderkappen
- Yderkappe af PE (Polyetylen)
- Lederopbygning 1x50 RM/16 mm<sup>2</sup> op til 1x630 RM/35 mm<sup>2</sup>
- Lederopbygning 3x50 RM/16 mm<sup>2</sup> op til 3x240 RM/35 mm<sup>2</sup>
- Radialt og langsgående vandtæt.

## Europæiske varianter



### N2XSY

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig kobber med isolering af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Yderkappe af PVC
- Lederopbygning 1x35 RM/16 mm<sup>2</sup> op til 1x800 RM/35 mm<sup>2</sup>
- Kan på anmodning tilbydes i trefaseudførelse.



### N2XS2Y

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig kobber med isolering af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Yderkappe af PVC
- Lederopbygning 1x35 RM/16 mm<sup>2</sup> op til 1x800 RM/35 mm<sup>2</sup>
- Kan på anmodning tilbydes i trefaseudførelse.



### N2XS(F)2Y

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig kobber med isolering af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Vandtæt tape
- Yderkappe af PE (Polyetylen)
- Lederopbygning 1x35 RM/16 mm<sup>2</sup> op til 1x800 RM/35 mm<sup>2</sup>
- Langsgående vandtæt
- Kan på anmodning tilbydes i trefaseudførelse.



### N2XS(FL)2Y

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig kobber med isolering af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Vandtæt tape og metaltape, som hæfter på yderkappen
- Yderkappe af PE (Polyetylen)
- Lederopbygning 1x35 RM/16 mm<sup>2</sup> op til 1x630 RM/35 mm<sup>2</sup>
- Radialt og langsgående vandtæt
- Kan på anmodning tilbydes i trefaseudførelse.



### NA2XS(F)2Y

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig aluminium med isolering af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Vandtæt tape
- Yderkappe af PE (Polyetylen)
- Lederopbygning 1x50 RM/16 mm<sup>2</sup> op til 1x1 000 RM/35 mm<sup>2</sup>
- Langsgående vandtæt
- Kan på anmodning tilbydes i trefaseudførelse.



### NA2XSY

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig aluminium med isolering af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Yderkappe af PVC
- Lederopbygning 1x50 RM/16 mm<sup>2</sup> op til 1x630 RM/35 mm<sup>2</sup>
- Kan på anmodning tilbydes i trefaseudførelse.



### NA2XS(FL)2Y

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig aluminium med isolering af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Vandtæt tape og metaltape, som hæfter på yderkappen
- Yderkappe af PE (Polyetylen)
- Lederopbygning 1x70 RM/16 mm<sup>2</sup> op til 1x500 RM/35 mm<sup>2</sup>
- Radialt og langsgående vandtæt
- Kan på anmodning tilbydes i trefaseudførelse.



### NA2XS2Y

- Spændingsklasser 6/10(12)kV, 12/20(24)kV, 18/30(36)kV
- Runde ledere af fåtrådig aluminium med isolering af XLPE (+90°C)
- Koncentrisk jord af kobbertråde med modspiral
- Yderkappe af PE (Polyetylen)
- Lederopbygning 1x50 RM/16 mm<sup>2</sup> op til 1x800 RM/35 mm<sup>2</sup>
- Kan på anmodning tilbydes i trefaseudførelse.

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## (N)HXH FE 180/E30

Brandresistent installationskabel

### Info

- Brandspridning enligt DIN EN 50266-2-2, VDE 0482-266-2-2, IEC 60332-3-22
- Rökutveckling enligt DIN EN IEC 61034-2, VDE 0482-1034-2



### Fördelar

- Brandresistent installationskabel för ökad säkerhet
- Hög säkerhet i miljöer med många människor
- Klarar elektrisk funktion i 180 minuter för enskild kabel och i 30 minuter för system (kablar på stegen) vid en eventuell brand
- Begränsning av brandspridning samt densitet och giftighet hos rökgaser i händelse av brand
- Brandgaserna bildar ingen saltsyra vilket minskar risken för sekundärskador på exempelvis elektronisk utrustning

### Användningsområden

- Strömförsörjning av skyltar och belysningar för guidning av utrymmesvägar
- Brandlarmssystem, hissar och rökgasfläktar

### Produkttegenskaper

- Systemkretssäkerhet E30 enligt DIN 4102-12 (30 min.)
- Halogenfri enligt IEC 60754-1, korrosiva gaser enligt IEC 60754-2
- Brandspridning enligt DIN EN 50266-2-2, VDE 0482-266-2-2, IEC 60332-3-22
- Rökutveckling enligt DIN EN IEC 61034-2, VDE 0482-1034-2
- Kretssäkerhet FE180 enligt IEC 60331-2-1 och VDE 0472-814 (800°C, 180 min)

### Design/Utförande

- Ledare av en- eller flertrådig blank koppar
- Ledarisolering av halogenfri, tvärbunden och brandresistent silikonblandning
- Innermantel av halogenfri och flammhämmande blandning
- Yttremantel av halogenfri blandning typ HM4 enligt DIN VDE 0276-604, orange

### Tekniska data

- Ledaridentifikation**  
Enligt DIN VDE 0293-308, HD 308 S2  
2-ledare: brun, blå  
3-ledare: grön/gul, brun, blå  
4-ledare: grön/gul, svart, grå, brun  
5-ledare: grön/gul, svart, grå, brun, blå  
Från 7-ledare: grön/gul, svarta med vita siffror
- Märkspänning U<sub>o</sub>/U**  
0,6/1 kV
- Ledaruppbyggnad**  
RE = Solida ledare av blank koppar, RM = Fätrådiga ledare av blank koppar enligt EN 60228
- Minsta böjningsradie**  
12 x kabeldiametern (mångledare)
- Temperaturområde**  
Fast: -40°C till +90°C, kortslutningstemperatur +250°C i 5 sek.  
Lägsta temperatur vid installation: -5°C

Art nr	Antal ledare och mm <sup>2</sup> per ledare	Ytterdiameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
<b>(N)HXH FE180/E30</b>				
83113301	2 x 1,5 RE	11,1	29	175
83113302	3 x 1,5 RE	11,6	43	197
83113303	4 x 1,5 RE	12,5	58	229
83113304	5 x 1,5 RE	13,5	72	270
83113305	2 x 2,5 RE	11,9	48	212
83113306	3 x 2,5 RE	12,5	72	243
83113307	4 x 2,5 RE	13,4	96	303
83113308	5 x 2,5 RE	14,5	120	338
83113309	4 x 6 RE	15,7	230	461
83113310	5 x 6 RE	17,1	288	557
83113311	4 x 10 RE	17,6	384	651
83113312	5 x 10 RE	19,2	480	791
83113313	4 x 16 RM	20,8	614	959
83113314	5 x 16 RM	22,8	768	1 175
83113315	4 x 25 RM	24,9	960	1 432
83113316	4 x 35 RM	27,5	1 344	1 882



## (N)HXCH FE 180/E90

Brandresistent installationskabel med koncentrisk jord

### Info

- Halogenfri enligt IEC 60754-1, korrosiva gaser enligt IEC 60754-2



### Fördelar

- Brandresistent installationskabel med koncentrisk jord för ökad säkerhet
- Klarar elektrisk funktion 180 minuter för enskild kabel och 90 minuter för system (kablar på stegen) vid en eventuell brand
- Hög säkerhet i miljöer med många människor
- Begränsning av brandspridning samt densitet och giftighet hos rökgaser i händelse av brand
- Brandgaserna bildar ingen saltsyra vilket minskar risken för sekundärskador på exempelvis elektronisk utrustning

### Användningsområden

- Strömförsörjning av skyltar och belysningar för guidning av utrymmesvägar
- Brandlarmssystem, hissar och rökgasfläktar

### Produktgenskaper

- Halogenfri enligt IEC 60754-1, korrosiva gaser enligt IEC 60754-2
- Kretssäkerhet FE180 enligt IEC 60331-2-1 och VDE 0472-814 (800°C, 180 min)
- Systemkretssäkerhet E90 enligt DIN 4102-12 (90 min)
- Brandspridning enligt DIN EN 50266-2-2, VDE 0482-266-2-2, IEC 60332-3-22
- Rökutveckling enligt DIN EN IEC 61034-2, VDE 0482-1034-2

### Design/Utförande

- Ledare av en- eller flertrådig blank koppar
- Ledarisolering av halogenfri, tvärbunden och brandresistent silikonblandning
- Innermantel av halogenfri och flammhämmande blandning
- Koncentrisk jordledare med koppartråd och motspiral av kopparband
- Ytermantel av halogenfri blandning typ HM4 enligt DIN VDE 0276-604, orange

### Tekniska data

- Ledaridentifikation**  
 Enligt DIN VDE 0293-308, HD 308 S2  
 2-ledare: brun, blå  
 3-ledare: grön/gul, brun, blå  
 4-ledare: grön/gul, svart, grå, brun  
 5-ledare: grön/gul, svart, grå, brun, blå  
 Från 7-ledare: grön/gul, svarta med vita siffror
- Märkspänning U<sub>o</sub>/U**  
 0,6/1 kV
- Ledaruppbyggnad**  
 RE = Solida ledare av blank koppar, RM = Fåtrådiga ledare av blank koppar enligt EN 60228
- Minsta böjningsradie**  
 12 x kabeldiametern (mångledare)
- Temperaturområde**  
 Fast: -40°C till +90°C, kortslutningstemperatur +250°C i 5 sek.  
 Lägsta temperatur vid installation: -5°C

Art nr	Antal ledare och mm <sup>2</sup> per ledare	Ytterdiameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
<b>(N)HXCH FE 180/E90</b>				
83113317	4 x 1,5 RE/1,5	15,3	72	325
83113318	4 x 2,5 RE/2,5	16,2	120	384
83113319	4 x 6 RE/6	19,2	288	611
83113320	4 x 16 RM/16	24,9	768	1 232
83113321	4 x 25 RM/16	29,0	1 114	1 682
83113322	4 x 35 RM/16	31,5	1 498	2 136
83113323	4 x 50 RM/25	36,4	2 160	2 924
83113324	4 x 70 RM/35	40,0	3 024	3 933
83113325	4 x 95 RM/50	46,6	4 128	5 415
83113326	4 x 120 RM/70	51,2	5 280	6 744
83113327	12 x 1,5 RE/2,5	21,5	197	637
83113328	24 x 1,5 RE/6	28,5	403	1 078



## FLAME-X950 HDGs

Brandresistent kabel för branddetektering samt brand- och röstlarmsystem

### Info

- Hög säkerhet i miljöer med många människor
- Avger inte saltsyra vid brand som kan orsaka skador på byggnader och utrustningar
- Får installeras utomhus, dock skyddad mot UV-ljus



### Fördelar

- Den klarar det tuffa kravet FE180/PH90 vilket garanterar funktion vid brand i 90-180 minuter beroende på mekanisk påverkan.
- Hög säkerhet i miljöer med många människor
- Begränsning av brandspridning samt densitet och giftighet hos rökgaser i händelse av brand
- Avger inte saltsyra vid brand som kan orsaka skador på byggnader och utrustningar

### Användningsområden

- För brandlarmsystem, nödbelysningar samt övriga larmsystem
- Får installeras utomhus, dock skyddad mot UV-ljus

### Produktgenskaper

- Brandresistens enligt: FE180 enligt IEC 60331 (750°C, 180 min) PH90 enligt EN 50200 BS 6387 kategori C (950°C, 180 min)
- Kategori W resistans mot eld med vatten (15 min, +650°C) plus 15 minuter med vattenspray
- Kategori Z resistans mot mekanisk chock (15 min, +950°C)
- Övriga brandegenskaper: Brandspridning IEC 60332-3-22 kategori A Rökutveckling enligt DIN EN BS IEC 61034-2 Halogenfri enligt IEC 60754-1, korrosiva gaser enligt IEC 60754-2

### Design/Utförande

- Ledare av solid koppar
- Ledarisolering av halogenfri, tvärbunden och brandresistent silikonblandning
- Yttermantel av halogenfri blandning, röd

### Tekniska data

- Ledaridentifikation**  
2-ledare: brun, blå
- Märkspänning U<sub>0</sub>/U**  
300/500 V
- Minsta böjningsradie**  
6 x kabeldiametern
- Temperaturområde**  
Fast: -25°C till +90°C, kortslutningstemperatur +250°C i 5 sek.  
Lägsta temperatur vid installation: -10°C

Art nr	Antal ledare och mm <sup>2</sup> per ledare	Yttre diameter [mm]	Kopparindex (kg/km)	Vikt (kg/km)
<b>FLAME-X950 HDGs</b>				
83113281	2 x 1	6,4	19,2	50



## FLAME-X950 HDGsekwf

Skärmd brandresistent kabel för brandlarmsystem

### Info

- Avger inte saltsyra vid brand som kan orsaka skador på byggnader och utrustningar
- EMC-skärm skyddar mot omgivande störningar



### Fördelar

- Bibehåller den elektriska funktionen vid brand i minst 90 minuter (+830 °C)
- Hög säkerhet i miljöer med många människor
- Begränsning av brandspridning samt densitet och giftighet hos rökgaser i händelse av brand
- Avger inte saltsyra vid brand som kan orsaka skador på byggnader och utrustningar
- EMC-skärm skyddar mot omgivande störningar

### Användningsområden

- För brandlarmsystem, nödbelysningar samt övriga larmsystem
- Får installeras utomhus men då dock skyddad mot UV-ljus
- Med oisolerad biledare som får användas som skyddsjord

### Produkttegenskaper

- Brandresistens enligt:
  - FE180 enligt IEC 60331 (750°C, 180 min)
  - PH90 enligt EN 50200
  - BS 6387 kategori C (950°C, 180 min)
- Kategori W resistans mot eld med vatten (15 min, +650°C) plus 15 minuter med vattenspray
- Kategori Z resistans mot mekanisk chock (15 min, +950°C)
- Övriga brandtegenskaper:
  - Brandspridning IEC 60332-3-22 kategori A
  - Rökutveckling enligt DIN EN BS IEC 61034-2
  - Halogenfri enligt IEC 60754-1, korrosiva gaser enligt IEC 60754-2

### Design/Utförande

- Ledare av solid koppar
- Ledarisolering av halogenfri, tvärbunden och brandresistent silikonblandning
- Skärm av Al-folie med utsida av polyesterlaminat
- Ytermantel av halogenfri blandning, röd
- Biledare av solid koppar som har kontakt med Al-folien (samma area som fasledare)

### Tekniska data

- Ledaridentifikation**  
 2-ledare: brun, blå  
 3-ledare: brun, blå, grå  
 4-ledare: brun, blå, svart, grå
- Märkspänning U<sub>o</sub>/U**  
 300/500 V
- Minsta böjningsradie**  
 6 x kabeldiametern
- Temperaturområde**  
 Fast: -25°C till +90°C, kortslutningstemperatur +250°C i 5 sek.  
 Lägsta temperatur vid installation: -10°C

Art nr	Antal ledare och mm <sup>2</sup> per ledare	Ytterdiameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
<b>FLAME-X950 HDGsekwf</b>				
83113290	2 x 1 RE/1	7,3	38	65
83113291	4 x 1 RE/1	8,5	48	103
83113292	2 x 1,5 RE/1,5	8,2	43	90
83113293	3 x 1,5 RE/1,5	8,7	58	113
83113294	4 x 1,5 RE/1,5	9,9	72	143
83113295	2 x 2,5 RE/2,5	9,6	72	130
83113296	4 x 2,5 RE/2,5	11,9	120	211



## BETAflam® JE-H(St)H...Bd FE180/E30-90

Partvinnad brandresistent installationskabel



### Info

- Hög säkerhet i miljöer med många människor
- Klarar elektrisk funktion 180 minuter för enskild kabel och 30-90 minuter för system (kablar på stege) vid en eventuell brand
- Kretssäkerhet FE180 enligt IEC 60331-11 och -21, VDE 0472-814

### Fördelar

- Partvinnad brandresistent installationskabel för ökad säkerhet
- Klarar elektrisk funktion 180 minuter för enskild kabel och 30-90 minuter för system (kablar på stege) vid en eventuell brand
- Hög säkerhet i miljöer med många människor
- Avger inte saltsyra vid brand som kan orsaka skador på byggnader och utrustningar
- Begränsning av brandspridning samt densitet och giftighet hos rökgaser i händelse av brand

### Användningsområden

- Brandlarmssystem och signalering

### Produktegenskaper

- Kretssäkerhet FE180 enligt IEC 60331-11 och -21, VDE 0472-814

- Kretssäkerhet med chock enligt EN 50200 PH90 (upp till 20 mm i diameter)
- Systemkretssäkerhet E30, E60 eller E90 beroende på typ av system enligt DIN 4102-12
- Brandegenskaper:
  - Halogenfri (IEC 60754-1)
  - Korrosiva gaser (IEC 60754-2)
  - Rökutveckling (IEC 61034-1, -2)
  - Brandspridning (IEC 60332-1-2, 60332-3-10, -3-23, -3-24)

### Design/Utförande

- Ledare av entrådlig blank koppar
- Mica-tape över varje ledare och därefter isolation av tvärbunden polymer eller silikon
- Ledarna partvinnade och ovanpå dessa en plastfolie samt eventuell Mica-tape
- Aluminiumskärm med biledare av solid koppartråd
- Yttermantel av tvärbunden polyolefin-copolymerblandning framställd med elektronstråleteknik, orange eller röd

### Tekniska data

	<b>Kapacitans</b> Max 120 nF/km vid 800 Hz Obalanserad: 200 pF/100 m
	<b>Drifttoppspänning (ej för starkström)</b> 225 V
	<b>Minsta böjningsradie</b> 8 x kabeldiametern
	<b>Provspänning</b> Ledare-ledare 500 V Ledare-skärm 2000 V
	<b>Isolationsmotstånd</b> Min 100 MOhm x km
	<b>Temperaturområde</b> -30°C till +90°C

Art nr	Antal par och diameter per ledare (mm)	Ytterdiameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
<b>BETAflam® JE-H(St)H FE180/E30-90 Orange mantel</b>				
83113249	1 x 2 x 0,8	7,6	15	65
83113250	2 x 2 x 0,8	8,5	25	88
83113251	4 x 2 x 0,8	12,1	45	147
83113252	8 x 2 x 0,8	17,6	85	280
83113253	12 x 2 x 0,8	19,8	126	365
83113254	16 x 2 x 0,8	23,3	166	480
83113255	20 x 2 x 0,8	24,5	206	590
<b>BETAflam® JE-H(St)H FE180/E30-90 Röd mantel</b>				
83113260	1 x 2 x 0,8	7,6	15	65
83113258	2 x 2 x 0,8	8,5	25	88
83113259	4 x 2 x 0,8	12,1	45	147
<b>BETAflam® JE-H(St)H FE180/E30 Orange mantel</b>				
83113267	1 x 2 x 0,8	5,9	15	48
83113268	2 x 2 x 0,8	7,4	25	75
83113269	4 x 2 x 0,8	10,3	45	119
<b>BETAflam® JE-H(St)H FE180/E30 Röd mantel</b>				
83113262	1 x 2 x 0,8	5,9	15	48
83113263	2 x 2 x 0,8	7,4	25	75
83113257	4 x 2 x 0,8	10,3	45	119
83113264	1 x 2 x 1,0 mm <sup>2</sup>	7,7	24	74
83113265	1 x 2 x 1,5 mm <sup>2</sup>	7,8	34	86
83113266	2 x 2 x 1,5 mm <sup>2</sup>	10,4	62	145



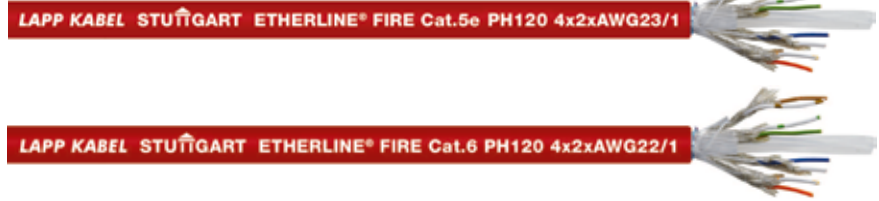


**ETHERLINE® FIRE**

Industrial Ethernet cable with insulation integrity

**Info**

- Insulation integrity for at least 120 minutes in the event of fire



**Benefits**

- Ensures that the cable can still transmit data during and after a fire for 120 min (according to EN50200)
- High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference

**Application range**

- In industrial areas that use fire as a tool
- Highly combustible or fire-prone areas
- For fixed installation
- For indoor use

**Product features**

- Fire behaviour:
  - Halogen-free (IEC 60754-1 & EN50267-2-1)
  - Flame-retardant (IEC 60332-1)
  - Fire retardant (IEC 60332-3-24)
  - Low smoke density (IEC 61034-2)
  - Circuit integrity (EN50200); 120 min

**Product Make-up**

- Solid bare copper conductor
- Core insulation: Based on Polyolefin
- Each insulation will be wrapped with a special tape (anti-fire barrier)
- Twisting: 2 twisted-pair cores, stranding from 4 pairs
- Halogen-free and flame-retardant FRNC outer sheath, colour: red (similar to RAL3000)

**Technical data**

	<b>Classification ETIM 5/6</b> ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description: Data cable
	<b>Peak operating voltage</b> (not for power applications) 125 V
	<b>Minimum bending radius</b> Fixed installation: 15 x outer diameter
	<b>Characteristic impedance</b> nom. 100 Ω acc. to IEC 61156-5
	<b>Temperature range</b> Fixed installation: -20°C to +70°C

Article number	Article designation	Number of pairs and AWG per conductor	Core diameter in mm	Outer diameter mm	Copper index kg/km	Weight (kg/km)
<b>ETHERLINE® FIRE</b>						
2170905	ETHERLINE® FIRE Cat.5e PH120	4 x 2 x AWG23/1	0.9	8.6	24.0	75
2170913	ETHERLINE® FIRE Cat.6 PH120	4 x 2 x AWG22/1	1.5	10.2	48.0	145

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Detailed data sheets are available upon request. Please specify the type/dimensions of the required cable. Photographs and graphics are not to scale and do not represent detailed images of the respective products.



## HITRONIC® FIRE

Safety cable with central loose tube, LSZH inner and outer sheath, corrugated steel tape; halogen-free



### Info

- Fire-resistant for at least 180 minutes in the event of fire
- \* Cable had been tested to withstand 180 min



### Benefits

- Ensures that the fibres can still transmit data during and after a fire (according to IEC 60331-25)
- Suitable for installation in underground tunnels where fire safety is critical
- Additional sheath protects the fibres for use in harsh environments
- Armouring provides excellent protection against high mechanical stress and rodents
- UV-resistant longitudinally and laterally watertight

### Application range

- In industrial areas that use fire as a tool
- Highly combustible or fire-prone areas
- For indoor and outdoor use
- Methods of Deployment: empty plastic pipes, ducts and trays

### Product features

- Fire behaviour:
  - Halogen-free (IEC 60754-1)
  - Flame-retardant (IEC 60332-3-24)
  - Low smoke density (IEC 61034-1/2)
  - Circuit integrity (IEC 60331-25); Optical fibre cables
- Central loose tube with up to 24 fibres
- Colour-coded fibres
- Longitudinal watertight
- Outer sheath flame-retardant and halogen-free

### Product Make-up

- Gel-filled loose tube
- Water-blocking reinforced glass yarn strain relief
- Corrugated steel tape armour
- LSZH inner and outer sheaths
- Colour: black (RAL 9005)

### Technical data

- Classification ETIM 5/6**  
 ETIM 5.0/6.0 Class-ID: EC000034  
 ETIM 5.0/6.0 Class-Description: Fibre optic cable
- Dimensions**  
 Primary coated fibre: 250µm  
 Cable: see table
- Core identification code**  
 Fibre colour code see data sheet
- Fibre type**  
 GOF - Glass Optical Fibre
- Standard designation**  
 A/J-DQ(ZN)BH(SR)H
- Optical values**  
 see data sheet
- Optical fibre type**  
 Core material: glass  
 Cladding material: glass
- Permissible bending radius**  
 Static: ≥ 15 x outer diameter  
 Dynamic: ≥ 20 x outer diameter
- Permissible tensile force**  
 Fixed installation: 1500 N  
 Short-term: 2200 N
- Temperature range**  
 Fixed installation: -30°C to +70°C

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. The cables can also be supplied as pre-terminated fibre optic trunks. Photographs and graphics are not to scale and do not represent detailed images of the respective products. Available on request with Multimode OM4 fibres.

Article number	Article designation	Fibre type	Number of fibres	Outer diameter [mm]	Weight (kg/km)
<b>Multimode G50 OM4</b>					
27560404	HITRONIC® FIRE 4G 50/125 OM4	50/125 OM4	4	9.6	123
27560408	HITRONIC® FIRE 8G 50/125 OM4	50/125 OM4	8	9.6	123
27560412	HITRONIC® FIRE 12G 50/125 OM4	50/125 OM4	12	9.6	123
27560424	HITRONIC® FIRE 24G 50/125 OM4	50/125 OM4	24	12.6	188
<b>Multimode G 50 OM3</b>					
27560304	HITRONIC® FIRE 4G 50/125 OM3	50/125 OM3	4	9.6	123
27560308	HITRONIC® FIRE 8G 50/125 OM3	50/125 OM3	8	9.6	123
27560312	HITRONIC® FIRE 12G 50/125 OM3	50/125 OM3	12	9.6	123
27560324	HITRONIC® FIRE 24G 50/125 OM3	50/125 OM3	24	12.6	188
<b>Multimode G 50 OM2</b>					
27560204	HITRONIC® FIRE 4G 50/125 OM2	50/125 OM2	4	9.6	123
27560208	HITRONIC® FIRE 8G 50/125 OM2	50/125 OM2	8	9.6	123
27560212	HITRONIC® FIRE 12G 50/125 OM2	50/125 OM2	12	9.6	123
27560224	HITRONIC® FIRE 24G 50/125 OM2	50/125 OM2	24	12.6	188
<b>Multimode G 62.5 OM1</b>					
27560104	HITRONIC® FIRE 4G 62.5/125 OM1	62.5/125 OM1	4	9.6	123
27560108	HITRONIC® FIRE 8G 62.5/125 OM1	62.5/125 OM1	8	9.6	123
27560112	HITRONIC® FIRE 12G 62.5/125 OM1	62.5/125 OM1	12	9.6	123
27560124	HITRONIC® FIRE 24G 62.5/125 OM1	62.5/125 OM1	24	12.6	188
<b>Single-mode E 9 OS2</b>					
27560904	HITRONIC® FIRE 4E 9/125 OS2	9/125 OS2	4	9.6	123
27560908	HITRONIC® FIRE 8E 9/125 OS2	9/125 OS2	8	9.6	123
27560912	HITRONIC® FIRE 12E 9/125 OS2	9/125 OS2	12	9.6	123
27560924	HITRONIC® FIRE 24E 9/125 OS2	9/125 OS2	24	12.6	188



## ÖLFLEX® CLASSIC 130 H

Halogen-free control cable with improved fire characteristics



### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- For use within public buildings and industrial plants



### Benefits

- Easy installation due to flexible design
- Certified for maritime applications

### Application range

- Public buildings like airports or railway stations
- Plant engineering, Industrial machinery Heating and air-conditioning systems Stage applications
- Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards
- Note: for the use of AWM (Appliance Wiring Material) cables in industrial machinery (USA) according to NFPA 79: please see the catalogue appendix table T29

### Product features

- Flame-retardant according to IEC 60332-1-2 (flame spread on a single cable)

- No flame-propagation according to IEC 60332-3-22 and IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)
- Halogen-free according to IEC 60754-1 (amount of halogen acid gas) Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Low smoke density according to IEC 61034-2

### Norm references / Approvals

- UL AWM style 21217
- Based on EN 50525-3-11
- Based on EN 50525-2-51
- Germanischer Lloyd (GL) certificate no. TAE00002RJ

### Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation: Halogen-free
- Cores twisted in layers
- Outer sheath: Special halogen-free compound, grey (similar to RAL 7001)

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000104  
ETIM 5.0/6.0 Class-Description: Control cable
- Core identification code**  
Black with white numbers acc. to VDE 0293-334
- Conductor stranding**  
Fine wire according to VDE 0295, class 5/IEC 60228 class 5
- Minimum bending radius**  
Occasional flexing: 15 x outer diameter  
Fixed installation: 4 x outer diameter
- Nominal voltage**  
U0/U: 300/500 V  
UL: 600 V
- Test voltage**  
4000 V
- Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor
- Temperature range**  
Occasional flexing: -25°C to +70°C (UL: +75°C)  
Fixed installation: -40°C to +80°C (UL: +75°C)

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® CLASSIC 130 H</b>				
1123000	2 X 0.5	5.1	9.6	36
1123001	3 G 0.5	5.4	14.4	42
1123002	3 X 0.5	5.4	14.4	42
1123003	4 G 0.5	5.8	19.2	55
1123004	4 X 0.5	5.8	19.2	55
1123005	5 G 0.5	6.3	24.0	65
1123006	5 X 0.5	6.3	24.0	65
1123008	7 G 0.5	6.9	33.6	80
1123009	7 X 0.5	6.9	33.6	80
1123010	8 G 0.5	8.2	38.4	103
1123012	10 G 0.5	8.8	48.0	112
1123013	12 G 0.5	9.1	57.6	128
1123017	18 G 0.5	10.8	86.4	189
1123020	25 G 0.5	12.7	120.0	260
1123021	30 G 0.5	13.6	144.0	294
1123032	2 X 0.75	5.5	14.4	47
1123033	3 G 0.75	5.8	21.6	56
1123034	3 X 0.75	5.8	21.6	56
1123035	4 G 0.75	6.3	28.8	69
1123036	4 X 0.75	6.3	28.8	69
1123037	5 G 0.75	6.9	36.0	83
1123038	5 X 0.75	6.9	36.0	83
1123041	7 G 0.75	7.5	50.4	104
1123042	7 X 0.75	7.5	50.4	104
1123046	10 G 0.75	9.8	72.0	149
1123047	12 G 0.75	10.1	86.4	172
1123048	12 X 0.75	10.1	86.4	172
1123051	18 G 0.75	12.0	129.6	252
1123054	25 G 0.75	14.1	180.0	352
1123056	34 G 0.75	16.3	244.8	466
1123066	2 X 1.0	5.8	19.2	55
1123067	3 G 1.0	6.1	28.8	67

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1123068	3 X 1.0	6.1	28.8	67
1123069	4 G 1.0	6.6	38.4	83
1123070	4 X 1.0	6.6	38.4	83
1123071	5 G 1.0	7.3	48.0	100
1123072	5 X 1.0	7.3	48.0	100
1123074	7 G 1.0	8.1	67.2	130
1123075	7 X 1.0	8.1	67.2	130
1123076	8 G 1.0	9.7	76.8	164
1123078	10 G 1.0	10.4	96.0	183
1123080	12 G 1.0	10.7	115.2	212
1123081	12 X 1.0	10.7	115.2	212
1123083	16 G 1.0	12.1	153.6	275
1123084	18 G 1.0	12.9	172.8	314
1123090	25 G 1.0	15.0	240.0	429
1123094	34 G 1.0	17.5	326.4	570
1123106	2 X 1.5	6.4	28.8	72
1123107	3 G 1.5	6.8	43.2	88
1123108	3 X 1.5	6.8	43.2	88
1123109	4 G 1.5	7.4	57.6	110
1123110	4 X 1.5	7.4	57.6	110
1123111	5 G 1.5	8.3	72.0	135
1123112	5 X 1.5	8.3	72.0	135
1123114	7 G 1.5	9.0	100.8	174
1123115	7 X 1.5	9.0	100.8	174
1123116	8 G 1.5	10.8	115.2	223
1123118	10 G 1.5	11.8	144.0	250
1123120	12 G 1.5	12.2	172.8	289
1123124	18 G 1.5	14.6	259.2	433
1123128	25 G 1.5	17.2	360.0	596
1123130	34 G 1.5	19.8	489.6	786
1123139	2 X 2.5	7.6	48.0	110
1123140	3 G 2.5	8.3	72.0	137
1123142	4 G 2.5	9.0	96.0	174

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1123144	5 G 2.5	10.1	120.0	217
1123146	7 G 2.5	11.2	168.0	283
1123149	12 G 2.5	15.1	288.0	467
1123151	18 G 2.5	18.0	432.0	696
1123153	25 G 2.5	21.1	600.0	969
1123159	3 G 4.0	9.8	115.2	213
1123160	4 G 4.0	10.8	153.6	267
1123161	5 G 4.0	12.1	192.0	331
1123162	7 G 4.0	13.4	268.8	432
1123166	3 G 6.0	11.7	172.8	303

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1123167	4 G 6.0	13.0	230.4	388
1123168	5 G 6.0	14.5	288.0	480
1123169	7 G 6.0	16.0	403.2	626
1123172	4 G 10.0	16.2	384.0	601
1123173	5 G 10.0	18.1	480.0	735
1123177	4 G 16.0	18.8	614.4	917
1123178	5 G 16.0	21.2	768.0	1,148
1123181	4 G 25.0	23.5	960.0	1,418
1123182	5 G 25.0	26.4	1,200.0	1,769
1123185	4 G 35.0	26.6	1,344.0	1,905

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/ 100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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



## ÖLFLEX® CLASSIC 135 CH

Screened halogen-free control cable with improved fire characteristics



### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- For use within public buildings and industrial plants



### Benefits

- Easy installation due to flexible design
- Space-saving installation due to small cable diameters
- Certified for maritime applications

### Application range

- Public buildings like airports or railway stations
- Plant engineering  
Industrial machinery  
Heating and air-conditioning systems
- Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards
- In EMC-sensitive environments (electromagnetic compatibility)
- Note: for the use of AWM (Appliance Wiring Material) cables in industrial machinery (USA) according to NFPA 79: please see the catalogue appendix table T29

### Product features

- Flame-retardant according to IEC 60332-1-2 (flame spread on a single cable)

- No flame-propagation according to IEC 60332-3-22 and IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)
- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)  
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Low smoke density according to IEC 61034-2

### Norm references / Approvals

- UL AWM style 21217
- Based on EN 50525-3-11
- Based on EN 50525-2-51
- Germanischer Lloyd (GL) certificate no. TAE00002RK

### Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation: Halogen-free
- Cores twisted in layers
- Halogen-free plastic foil wrapping
- Tinned-copper braiding
- Outer sheath: Special halogen-free compound, grey (similar to RAL 7001)

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000104  
ETIM 5.0/6.0 Class-Description: Control cable
- Core identification code**  
Black with white numbers acc. to VDE 0293-334
- Conductor stranding**  
Fine wire according to VDE 0295, class 5/IEC 60228 class 5
- Minimum bending radius**  
Occasional flexing: 20 x outer diameter  
Fixed installation: 6 x outer diameter
- Nominal voltage**  
U0/U: 300/500 V  
UL: 600 V
- Test voltage**  
Core/core: 4000 V  
Core/screen: 2000 V
- Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor
- Temperature range**  
Occasional flexing: -25°C to +70°C (UL: +75°C)  
Fixed installation: -40°C to +80°C (UL: +75°C)

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® CLASSIC 135 CH</b>				
1123200	2 X 0.5	5.9	36.0	51
1123201	3 G 0.5	6.2	43.0	61
1123202	3 X 0.5	6.2	43.0	61
1123203	4 G 0.5	6.6	49.0	72
1123204	4 X 0.5	6.6	49.0	72
1123205	5 G 0.5	7.1	57.0	85
1123206	5 X 0.5	7.1	57.0	85
1123208	7 G 0.5	7.7	69.0	103
1123209	7 X 0.5	7.7	69.0	103
1123213	12 G 0.5	10.1	104.0	165
1123217	18 G 0.5	11.8	141.0	236
1123220	25 G 0.5	13.7	224.0	324
1123232	2 X 0.75	6.3	43.0	60
1123233	3 G 0.75	6.6	52.0	77
1123234	3 X 0.75	6.6	52.0	77
1123235	4 G 0.75	7.1	61.0	87
1123236	4 X 0.75	7.1	61.0	87
1123237	5 G 0.75	7.9	72.0	106
1123238	5 X 0.75	7.9	72.0	106
1123241	7 G 0.75	8.5	89.0	129
1123242	7 X 0.75	8.5	89.0	129
1123247	12 G 0.75	11.1	138.0	211
1123248	12 X 0.75	11.1	138.0	211
1123251	18 G 0.75	13.0	211.0	307
1123254	25 G 0.75	15.1	280.0	413
1123266	2 X 1.0	6.6	51.0	79
1123267	3 G 1.0	6.9	62.0	88
1123268	3 X 1.0	6.9	62.0	88
1123269	4 G 1.0	7.4	74.0	106
1123270	4 X 1.0	7.4	74.0	106
1123271	5 G 1.0	8.3	88.0	124

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1123272	5 X 1.0	8.3	88.0	124
1123274	7 G 1.0	8.9	112.0	155
1123275	7 X 1.0	8.9	112.0	155
1123280	12 G 1.0	11.7	185.0	250
1123281	12 X 1.0	11.7	185.0	250
1123284	18 G 1.0	14.1	268.0	368
1123290	25 G 1.0	16.2	354.0	493
1123291	25 X 1.0	16.2	354.0	493
1123306	2 X 1.5	7.2	65.0	91
1123307	3 G 1.5	7.6	82.0	112
1123308	3 X 1.5	7.6	82.0	112
1123309	4 G 1.5	8.4	100.0	141
1123310	4 X 1.5	8.4	100.0	141
1123311	5 G 1.5	9.1	119.0	161
1123312	5 X 1.5	9.1	119.0	161
1123314	7 G 1.5	10.0	154.0	206
1123315	7 X 1.5	10.0	154.0	206
1123320	12 G 1.5	13.4	268.0	355
1123324	18 G 1.5	15.8	373.0	517
1123328	25 G 1.5	18.2	530.0	705
1123339	2 X 2.5	8.6	96.0	128
1123340	3 G 2.5	9.1	118.0	157
1123342	4 G 2.5	10.0	147.0	201
1123344	5 G 2.5	11.1	176.0	248
1123346	7 G 2.5	12.0	253.0	313
1123349	12 G 2.5	16.3	385.0	524
1123359	3 G 4.0	10.6	178.0	231
1123360	4 G 4.0	11.8	248.0	291
1123361	5 G 4.0	13.3	269.0	361
1123362	7 G 4.0	14.6	371.0	468
1123366	3 G 6.0	12.7	240.0	318
1123367	4 G 6.0	14.2	343.0	437

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1123368	5 G 6.0	15.5	441.0	510
1123369	7 G 6.0	17.0	510.0	662
1123372	4 G 10.0	17.2	495.0	685
1123373	5 G 10.0	19.5	592.0	824
1123374	7 G 10.0	21.4	820.0	1,067

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1123377	4 G 16.0	20.2	736.0	1,036
1123378	5 G 16.0	22.6	895.0	1,285
1123381	4 G 25.0	25.1	1,129.0	1,663
1123382	5 G 25.0	28.0	1,400.0	1,976
1123385	4 G 35.0	28.2	1,546.0	2,052

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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



## ÖLFLEX® CLASSIC 130 H BK 0,6/1 kV

0.6/1kVAC, Halogen-free, Flexible, IEC 60332-3, IEC 61034-2, UV/ ozone resistance, UL AWM 1000V

### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- Public buildings
- UL AWM recognized



### Benefits

- Easy installation due to flexible design

### Application range

- Plant engineering  
Industrial machinery  
Heating and air-conditioning systems
- Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards
- For outdoor applications
- According to NFPA 79, subchapter 12.9.2: Use for industrial machinery operated in the USA on the basis of UL AWM (recognized) certification
- Each dimension with nominal/ minimum average wall thickness of the outer sheath of at least 1.8 mm: For applications where a strengthened outer sheath may turn out to be advantageous

### Product features

- Flame-retardant according to IEC 60332-1-2 (flame spread on a single cable)

- No flame-propagation according to IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)
- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)  
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Low smoke density according to IEC 61034-2
- UV and weather-resistant according to ISO 4892-2
- Ozone-resistant according to EN 50396

### Norm references / Approvals

- Based on EN 50525-3-11
- UL AWM approval: refer to data sheet

### Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation: Halogen-free
- Outer sheath made of special halogen-free compound, black

### Technical data

- Classification ETIM 5/6**  
 ETIM 5.0/6.0 Class-ID: EC000057  
 ETIM 5.0/6.0 Class-Description: Low voltage power cable
- Core identification code**  
 Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9  
 From 6 cores: black with white numbers
- Conductor stranding**  
 Fine wire according to VDE 0295, class 5/IEC 60228 class 5
- Minimum bending radius**  
 Occasional flexing: 15 x outer diameter  
 Fixed installation: 4 x outer diameter
- Nominal voltage**  
 U0/U: 600/1000 V  
 UL: 1000 V
- Test voltage**  
 4000 V
- Protective conductor**  
 G = with GN-YE protective conductor  
 X = without protective conductor
- Temperature range**  
 Occasional flexing: -25°C to +70°C  
 Fixed installation: -40°C to +80°C  
 UL: -25°C to +75°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® CLASSIC 130 H BK 0,6/1 kV</b>				
1123410	2 X 1.0	8.6	19.2	107
1123411	3 G 1.0	9.0	28.8	123
1123412	4 G 1.0	9.6	38.4	144
1123413	5 G 1.0	10.4	48.0	167
1123414	7 G 1.0	11.1	67.2	206
1123415	12 G 1.0	14.0	115.2	314
1123418	2 X 1.5	9.6	28.8	137
1123419	3 G 1.5	10.1	43.2	161
1123420	4 G 1.5	10.8	57.6	190
1123421	5 G 1.5	11.7	72.0	221
1123422	7 G 1.5	12.6	100.8	276
1123423	12 G 1.5	16.1	172.8	427
1123424	18 G 1.5	18.8	259.2	596
1123425	25 G 1.5	21.7	360.0	799
1123427	3 G 2.5	11.3	72.0	219

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1123428	4 G 2.5	12.2	96.0	262
1123429	5 G 2.5	13.3	120.0	307
1123430	7 G 2.5	14.4	168.0	390
1123431	12 G 2.5	18.7	288.0	624
1123432	18 G 2.5	22.0	432.0	879
1123433	25 G 2.5	25.8	600.0	1,212
1123434	3 G 4.0	12.6	115.2	290
1123435	4 G 4.0	13.7	153.6	351
1123436	5 G 4.0	14.9	192.0	416
1123438	4 G 6.0	15.1	230.4	463
1123439	5 G 6.0	16.8	288.0	559
1123440	4 G 10.0	18.7	384.0	662
1123441	5 G 10.0	20.7	480.0	915
1123443	5 G 16.0	23.6	768.0	1,296
1123444	4 G 25.0	26.2	960.0	1,631

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
 Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
 Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
 Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
 Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
 Photographs and graphics are not to scale and do not represent detailed images of the respective products.



## ÖLFLEX® CLASSIC 135 CH BK 0,6/1 kV

0.6/1kVAC, Halogen-free, Flexible, IEC 60332-3, IEC 61034-2, UV/ ozone resistance, UL AWM 1000V

### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- Public buildings
- EMC/Screened



### Benefits

- Easy installation due to flexible design
- Space-saving installation due to small cable diameters

### Application range

- Plant engineering  
Industrial machinery  
Heating and air-conditioning systems
- Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards
- For outdoor applications
- According to NFPA 79, subchapter 12.9.2: Use for industrial machinery operated in the USA on the basis of UL AWM (recognized) certification
- Each dimension with nominal/ minimum average wall thickness of the outer sheath of at least 1.8 mm: For applications where a strengthened outer sheath may turn out to be advantageous

### Product features

- Flame-retardant according to IEC 60332-1-2 (flame spread on a single cable)

- No flame-propagation according to IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)
- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)  
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Low smoke density according to IEC 61034-2
- UV and weather-resistant according to ISO 4892-2
- Ozone-resistant according to EN 50396

### Norm references / Approvals

- Based on EN 50525-3-11
- UL AWM approval: refer to data sheet

### Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation: Halogen-free
- Halogen-free plastic foil wrapping
- Tinned-copper braiding
- Outer sheath made of special halogen-free compound, black

### Technical data

- Classification ETIM 5/6**  
 ETIM 5.0/6.0 Class-ID: EC000057  
 ETIM 5.0/6.0 Class-Description: Low voltage power cable
- Core identification code**  
 Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9  
 From 6 cores: black with white numbers
- Conductor stranding**  
 Fine wire according to VDE 0295, class 5/IEC 60228 class 5
- Minimum bending radius**  
 Occasional flexing: 20 x outer diameter  
 Fixed installation: 6 x outer diameter
- Nominal voltage**  
 U0/U: 600/1000 V  
 UL: 1000 V
- Test voltage**  
 Core/core: 4000 V  
 Core/screen: 2000 V
- Protective conductor**  
 G = with GN-YE protective conductor  
 X = without protective conductor
- Temperature range**  
 Occasional flexing: -25°C to +70°C  
 Fixed installation: -40°C to +80°C  
 UL: -25°C to +75°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® CLASSIC 135 CH BK 0,6/1 kV</b>				
1123460	2 X 1.0	9.4	39.5	120
1123461	3 G 1.0	9.8	51.0	140
1123462	4 G 1.0	10.4	62.8	165
1123463	5 G 1.0	11.2	76.0	191
1123464	7 G 1.0	11.9	97.2	231
1123465	12 G 1.0	15.0	169.1	360
1123466	18 G 1.0	17.3	238.2	494
1123467	25 G 1.0	19.8	315.5	643
1123468	2 X 1.5	10.4	53.2	149
1123469	3 G 1.5	10.9	69.5	177
1123470	4 G 1.5	11.6	86.5	209
1123471	5 G 1.5	12.5	104.3	243
1123472	7 G 1.5	13.4	136.5	300
1123473	12 G 1.5	17.3	238.3	486
1123474	18 G 1.5	20.2	355.4	691
1123475	25 G 1.5	23.1	475.1	914

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1123476	2 X 2.5	11.6	79.4	197
1123477	3 G 2.5	12.1	106.1	243
1123478	4 G 2.5	13.0	134.3	293
1123479	5 G 2.5	14.1	158.3	342
1123480	7 G 2.5	15.4	225.0	462
1123481	12 G 2.5	20.1	383.6	718
1123482	18 G 2.5	23.4	548.9	1,011
1123483	25 G 2.5	27.4	761.7	1,370
1123485	4 G 4.0	14.7	211.9	399
1123486	5 G 4.0	15.9	250.3	471
1123487	3 G 6.0	14.9	232.1	414
1123488	4 G 6.0	16.1	298.5	519
1123489	5 G 6.0	17.8	356.1	607
1123490	4 G 10.0	20.1	490.6	837
1123492	4 G 16.0	22.5	735.1	1,157
1123493	5 G 16.0	25.0	888.7	1,407
1123494	4 G 25.0	27.8	1,126.6	1,683

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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





## ÖLFLEX® SERVO 2YSLCY-JB

EMC-optimised motor cable, low-capacitance, double screened

### Info

- EMC-optimised design
- 3+3 symmetry reduces common-mode interference effects and bearing currents
- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)



### Benefits

- EMC-compliant installation of power drive systems conforming to EN 61800-3
- High power transmission for large drives
- Low capacitance design enables longer cable connection between frequency converter and motor
- Symmetrical 3+3 Version supports the reduction of damaging bearing currents
- Versions with black outer sheath are suitable for outdoor use

### Application range

- Connecting cable between frequency converter and motor
- In dry, damp or wet interiors
- Paper industry
- Chemical industry
- Heavy industry

### Product features

- Flame-retardant according IEC 60332-1-2

### Norm references / Approvals

- Based on VDE 0207 / 0250 / 0295

### Product Make-up

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

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000057  
ETIM 5.0/6.0 Class-Description: Low voltage power cable
- Core identification code**  
Colours according to HD 308 S2 VDE 0293-308
- Conductor stranding**  
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**  
Occasional flexing: 15 x outer diameter  
Fixed installation: 4 x outer diameter
- Nominal voltage**  
U0/U: 600/1000 V
- Test voltage**  
Core/Core: 4 kV  
Core/Screen: 4 kV
- Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor  
Protective conductor of 3+3 version is gusset-filling divided between power cores
- Temperature range**  
Flexing: -5°C to +70°C  
3+3 core version: -15°C to +70°C  
Fixed installation: -40°C to +70°C

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® SERVO 2YSLCY-JB / 4-core version - transparent outer sheath</b>				
0036425	4 G 1.5	11.4	95.0	230
0036426	4 G 2.5	12.4	150.0	300
0036427	4 G 4.0	15.6	235.0	485
0036428	4 G 6.0	17.0	320.0	630
0036429	4 G 10.0	19.6	533.0	860
0036430	4 G 16.0	22.1	789.0	1,290
0036431	4 G 25.0	26.3	1,236.0	1,860
0036432	4 G 35.0	29.5	1,662.0	2,610
0036433	4 G 50.0	35.8	2,345.0	2,950
0036434	4 G 70.0	40.3	3,196.0	3,950
0036435	4 G 95.0	46.5	4,316.0	5,300
0036436	4 G 120.0	53.2	5,435.0	6,600
0036437	4 G 150.0	57.3	6,394.0	7,043
0036438	4 G 185.0	62.3	7,639.0	8,384
<b>ÖLFLEX® SERVO 2YSLCY-JB BK / 4-core version - black outer sheath</b>				
1136450	4 G 1.5	11.4	95.0	230
1136451	4 G 2.5	12.4	150.0	300
1136452	4 G 4.0	15.6	235.0	485
1136453	4 G 6.0	17.0	320.0	630
1136454	4 G 10.0	19.6	533.0	860
1136455	4 G 16.0	22.1	789.0	1,290
1136456	4 G 25.0	26.3	1,236.0	1,860

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1136457	4 G 35.0	29.5	1,662.0	2,610
1136458	4 G 50.0	35.8	2,345.0	2,950
1136459	4 G 70.0	40.3	3,196.0	3,950
1136460	4 G 95.0	46.5	4,316.0	5,300
1136461	4 G 120.0	53.2	5,435.0	6,600
1136462	4 G 150.0	57.3	6,394.0	7,043
1136463	4 G 185.0	62.3	7,639.0	8,384
<b>ÖLFLEX® SERVO 2YSLCYK-JB / 3+3 core version - black outer sheath, cold flexible</b>				
0036439	3 X 1,5 + 3 G 0,25	11.4	88.0	140
0036440	3 X 2,5 + 3 G 0,5	12.2	144.0	220
0036441	3 X 4 + 3 G 0,75	14.4	224.0	323
0036442	3 X 6 + 3 G 1,0	15.7	276.0	420
0036443	3 X 10 + 3 G 1,5	18.0	491.0	615
0036444	3 X 16 + 3 G 2,5	20.2	723.0	819
0036445	3 X 25 + 3 G 4	23.8	1,136.0	1,325
0036446	3 X 35 + 3 G 6	26.9	1,535.0	1,718
0036447	3 X 50 + 3 G 10	32.6	2,156.0	2,399
0036448	3 X 70 + 3 G 10	36.4	2,871.0	3,056
0036449	3 X 95 + 3 G 16	42.0	3,953.0	4,162
0036450	3 X 120 + 3 G 16	47.8	4,836.0	5,074
0036451	3 X 150 + 3 G 25	51.6	5,412.0	6,128
0036479	3 X 185 + 3 G 35	56.5	7,041.0	7,500
0036453	3 X 240 + 3 G 50	65.1	8,986.0	9,770



## ÖLFLEX® SERVO 2XSLCH-JB

EMC-optimised motor cable, low-capacitance, double screened and halogen-free with improved fire behaviour

### Info

- Halogen-free and highly flame-retardant
- 3+3 symmetry reduces common-mode interference effects and bearing currents
- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)



### Benefits

- EMC-compliant installation of power drive systems conforming to EN 61800-3
- High power transmission for large drives
- Low capacitance design enables longer cable connection between frequency converter and motor
- Symmetrical 3+3 Version supports the reduction of damaging bearing currents
- Reduction of flame propagation, density and toxicity of smoke gases in event of fire

### Application range

- Connecting cable between frequency converter and motor
- In dry, damp or wet interiors
- Paper industry, automotive industry
- Food production and packaging machinery
- Machine tools

### Product features

- Low-capacitance design

- Fire behaviour:
  - Flame-retardant (IEC 60332-1-2)
  - Halogen-free (IEC 60754-1)
  - No corrosive gases (IEC 60754-2)
  - Low smoke density (IEC 61034-2)
  - Low toxicity (EN 50305)
- No flame-propagation according to IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)

### Norm references / Approvals

- Based on VDE 0276, 0250, 0207

### Product Make-up

- Fine-wire, bare copper conductor
- Core insulation: XLPE
- Cores twisted concentrically (symmetrically splitted protective conductor of 3+3 version is gusset-filling divided between the power cores)
- Screening: wrapping of laminated aluminium foil in combination with tinned copper braiding
- Outer sheath: Halogen-free special compound, colour black (RAL 9005)

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000057  
ETIM 5.0/6.0 Class-Description: Low voltage power cable
- Core identification code**  
Colours according to HD 308 S2 VDE 0293-308
- Conductor stranding**  
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**  
Occasional flexing: 15 x outer diameter  
Fixed installation: 4 x outer diameter
- Nominal voltage**  
U<sub>0</sub>/U: 600/1000 V
- Test voltage**  
Core/Core: 4 kV  
Core/Screen: 4 kV
- Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor  
Protective conductor of 3+3 version is gusset-filling divided between power cores
- Temperature range**  
Flexing: -15°C to +90°C  
Fixed installation: -40°C to +90°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® SERVO 2XSLCH-JB / 4-core version</b>				
1133500	4 G1.5	10,9	95.0	230
1133501	4 G2.5	12.0	150.0	300
1133502	4 G4.0	14,5	235.0	485
1133503	4 G6.0	16.0	320.0	630
1133504	4 G10.0	18,4	533.0	860
1133505	4 G16.0	21.0	789.0	1,290
1133506	4 G25.0	25,9	1,236.0	1,860
1133507	4 G35.0	29,3	1,662.0	2,610
1133508	4 G50.0	34,5	2,345.0	2,950
1133509	4 G70.0	38,2	3,196.0	3,950
1133510	4 G95.0	43.0	4,316.0	5,300
1133511	4 G120.0	47,8	5,435.0	6,600
1133512	4 G150.0	55,7	6,394.0	7,043
1133513	4 G185.0	60,3	7,639.0	8,384

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® SERVO 2XSLCH-JB / 3+3 core version</b>				
1133514	3 X 1,5 + 3 G 0,25	11,4	88.0	140
1133515	3 X 2,5 + 3 G 0,5	12,4	144.0	220
1133516	3 X 4 + 3 G 0,75	13,9	224.0	323
1133517	3 X 6 + 3 G 1	15,2	276.0	420
1133518	3 X 10 + 3 G 1,5	17,2	491.0	615
1133519	3 X 16 + 3 G 2,5	20,7	723.0	819
1133520	3 X 25 + 3 G 4	23,8	1,136.0	1,325
1133521	3 X 35 + 3 G 6	26,9	1,535.0	1,718
1133522	3 X 50 + 3 G 10	31,8	2,156.0	2,399
1133523	3 X 70 + 3 G 10	34,6	2,871.0	3,056
1133524	3 X 95 + 3 G 16	38,5	3,953.0	4,162
1133525	3 X 120 + 3 G 16	42,7	4,836.0	5,074
1133526	3 X 150 + 3 G 25	47,8	5,412.0	6,128
1133527	3 X 185 + 3 G 35	52,6	7,041.0	7,500
1133528	3 X 240 + 3 G 50	61,9	8,986.0	9,770

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
 Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
 Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
 Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
 Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
 Photographs and graphics are not to scale and do not represent detailed images of the respective products.



# H07RN-F

Heavy standard construction



### Info

- Medium mechanical stress
- Oil-resistant



### Benefits

- For mechanically more demanding applications
- 1000 V AC at protected + static laying
- Arrangements made of single-core, rubber-sheathed cables H07RN-F can be used for short circuit-proof and short-to-ground-proof installations in accordance with IEC 60364-5-52/ HD 60364-5-52/ VDE 0100 Part 520

### Application range

- Handheld and power supply devices according to EN 50565-2
- Medium, mechanical stress
- Industrial, agricultural use

- According to EN 50565-2: In dry, damp and wet rooms as well as for fixed installation e.g. on the plaster

### Product features

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

### Norm references / Approvals

- <HAR> H07RN-F cable type approval according to EN 50525-2-21

### Product Make-up

- Bare copper wire according to HAR
- Core insulation: rubber compound, type EI 4
- Outer sheath: rubber compound, type EM2

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC001578  
ETIM 5.0/6.0 Class-Description: Flexible cable
- Core identification code**  
Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9  
From 6 cores: black with white numbers
- Conductor stranding**  
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**  
4 to 8 x outer diameter (EN 50565-1)
- Nominal voltage**  
U0/U: 450/750 V
- Test voltage**  
2500 V
- Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor
- Current rating**  
According to IEC 60364-5-52/ VDE 0298-4  
EN 50565-1/ VDE 0298-565-1
- Temperature range**  
-25°C to +60°C

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>H07RN-F</b>				
1600096	1 X 1.5	5.7 - 6.5	14.4	59
1600099	1 X 2.5	6.3 - 7.2	24.0	72
1600097	1 X 4.0	7.2 - 8.1	38.4	99
1600098	1 X 6.0	7.9 - 8.8	57.6	130
1600194	1 X 10.0	9.5 - 10.7	96.0	230
1600195	1 X 16.0	10.8 - 12.0	153.6	320
1600196	1 X 25.0	12.7 - 14.0	240.0	450
1600193	1 X 35.0	14.3 - 15.9	336.0	605
1600197	1 X 50.0	16.5 - 18.2	480.0	825
1600189	1 X 70.0	18.6 - 20.5	672.0	1,090
1600190	1 X 95.0	20.8 - 22.9	912.0	1,405
1600198	1 X 120.0	22.8 - 25.1	1,152.0	1,745
1600191	1 X 150.0	25.2 - 27.6	1,440.0	1,887
1600175	1 X 185.0	27.6 - 30.2	1,776.0	2,274
1600177	1 X 240.0	30.6 - 33.5	2,304.0	2,955
30015435	1 X 300.0	33.5 - 36.7	2,880.0	3,479
1600117	3 G 1.0	8.3 - 9.6	28.8	130
1600199	2 X 1.5	8.5 - 9.9	28.8	135
1600103	3 G 1.5	9.2 - 10.7	43.2	165
16001233	4 G 1.5	10.2 - 11.7	57.6	200
16001043	5 G 1.5	11.2 - 12.8	72.0	240
1600151	7 G 1.5	14.7 - 16.5	100.8	385
1600148	12 G 1.5	17.6 - 19.8	172.8	516
1600259	19 G 1.5	20.7 - 26.3	273.6	800
1600166	24 G 1.5	24.3 - 27.0	345.6	882
1600263	25 G 1.5	25.1 - 25.9	360.0	920
1600187	2 X 2.5	10.2 - 11.7	48.0	195
1600118	3 G 2.5	10.9 - 12.5	72.0	235
16001053	4 G 2.5	12.1 - 13.8	96.0	290
16001293	5 G 2.5	13.3 - 15.1	120.0	294

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1600152	7 G 2.5	17.1 - 19.3	168.0	520
1600154	12 G 2.5	20.6 - 23.1	288.0	810
1600156	19 G 2.5	25.5 - 31.0	456.0	1,200
1600157	24 G 2.5	28.8 - 31.9	576.0	1,298
1600186	2 X 4.0	11.8 - 13.4	76.8	270
1600119	3 G 4.0	12.7 - 14.4	115.2	320
16001063	4 G 4.0	14.0 - 15.9	153.6	395
16001303	5 G 4.0	15.6 - 17.6	192.0	485
1600161	7 G 4.0	20.1 - 22.4	268.8	681
1600120	3 G 6.0	14.1 - 15.9	172.8	360
16001073	4 G 6.0	15.7 - 17.7	230.4	475
16001313	5 G 6.0	17.5 - 19.6	288.0	760
1600121	3 G 10.0	19.1 - 21.3	288.0	880
16001083	4 G 10.0	20.9 - 23.3	384.0	1,060
16001093	5 G 10.0	22.9 - 25.6	480.0	1,300
1600122	3 G 16.0	21.8 - 24.3	460.8	1,090
16001103	4 G 16.0	23.8 - 26.4	614.4	1,345
16001113	5 G 16.0	26.4 - 29.2	768.0	1,680
16001123	4 G 25.0	28.9 - 32.1	960.0	1,995
16001133	5 G 25.0	32.0 - 35.4	1,200.0	2,470
1600124	3 G 35.0	29.3 - 32.5	1,008.0	1,910
16001143	4 G 35.0	32.5 - 36.0	1,344.0	2,645
16001363	5 G 35.0	35.7 - 39.5	1,680.0	2,810
16001153	4 G 50.0	37.7 - 41.5	1,920.0	3,635
1600126	5 G 50.0	41.8 - 46.6	2,400.0	4,050
16001163	4 G 70.0	42.7 - 47.1	2,688.0	4,830
16001283	4 G 95.0	48.4 - 53.2	3,648.0	6,320
16001323	4 G 120.0	53.0 - 57.5	4,608.0	6,830
16000883	4 G 150.0	58.0 - 63.6	5,760.0	8,320
1600141	4 G 185.0	64.0 - 69.7	7,104.0	9,800
1600183	4 G 240.0	72.0 - 79.2	9,216.0	12,800



## NSHXAFÖ 1,8/3 kV

Halogen-free, flexible single-core rubber cable for public transport and wiring



### Info

- Public transport
- Control panel internal wiring
- Halogen-free



### Benefits

- Arrangements made of single-conductor cables NSHXAFö in accordance with VDE 0250 Part 606 with nominal voltage of at least U0/U: 1.8/3 kV can be used for short circuit-proof and short-to-ground-proof installation up to 1000 V in acc. with VDE 0100 Part 520 and VDE 0298 Part 3

### Application range

- Wiring of machines, tools, devices, appliances and control cabinets
- Railway vehicles, buses; short-circuit-proof up to 1000 V in switching stations and power distributors
- No direct burial, except of lead-through through fire separations such as sand cups
- In ducts, tubes, pipes, conduits and closed installation channels
- Bundled or for connection of movable parts

### Product features

- Halogen-free: to protect human life and valuable assets in the event of a fire, through low smoke density and low amount of corrosive gases
- Flame-retardant according IEC 60332-1-2
- Normative rated voltage class 3.6/6 kVac available on request
- The outer diameters stated in the part number table are maximum values

### Norm references / Approvals

- <VDE> NSHXAFÖ 1,8/3 kV cable type approval according to VDE 0250-606

### Product Make-up

- Fine copper wire strands
- Core insulation: halogen-free rubber compound, type 3GI3
- Outer coating: halogen-free polymer compound, type HM3

### 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**  
Flexible use: 10 x outer diameter  
Fixed installation: 6 x outer diameter
- Nominal voltage**  
U0/U: 1.8/3 kV
- Test voltage**  
6000 V
- Temperature range**  
Flexing: -5°C to +90°C  
Fixed installation: -25°C to +90°C

Article number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>NSHXAFÖ 1,8/3 kV</b>				
3022673	1.5	7.0	14.4	60
3022674	2.5	7.5	24.0	70
3022675	4	9.0	38.4	90
3022676	6	9.5	57.6	120
3022677	10	11.0	96.0	180
3022678	16	13.0	153.6	250
3022679	25	15.0	240.0	390
3022680	35	16.5	336.0	470
3022681	50	18.0	480.0	625
3022682	70	20.5	672.0	880
3022683	95	24.0	912.0	1,190
3022684	120	26.0	1,152.0	1,430
3022685	150	28.0	1,440.0	1,750
3022686	185	31.0	1,776.0	2,160
3022687	240	34.5	2,304.0	2,718
3022688	300	38.0	2,880.0	3,470

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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



## CLEAN CABLE

Kraftkabel för dränkbara pumpar i dricksvatten

### Info

- Certifierad för användning i dricksvatten ner till 600 m djup
- Köldflexibel ner till -25°C
- Lättarbetad



### Användningsområden

- Kabel avsedd för kraftmatning till dränkbara pumpar i dricksvatten, fiskdammar och simbassänger samt inom livsmedel- och dryckesindustrin
- Designad för permanent nedsänkning i vatten ner till 600 m djup
- Giffri och vattentät

### Produktegenskaper

- Certifierad för användning i dricksvatten enligt ACS, KTW, WRAS, D.M.174

- Kompatibel med klassificeringen AD8
- Halogenfri enligt IEC 60754-1

### Design/Utförande

- Fintrådiga ledare av blank koppar enligt EN60228 klass 5
- Ledarisolering av XLPE enligt HD 308.S2
- Mantel av tvärbunden gummiblandning, blå (RAL 5015)

### Tekniska data

- Ledaridentifikation**  
Färgmärkta ledare enligt VDE 0293-308
- Märkspänning U<sub>o</sub>/U**  
0,6/1 kV
- Minsta böjningsradie**  
5 x ytterdiametern
- Provspänning**  
4000 VAC
- Temperaturområde**  
Fast: -30°C till +80°C  
Under installation: -25°C till +50°C  
Max vattentemperatur: +40°C  
Max ledartemperatur: +90°C

Art nr	Antal ledare och mm <sup>2</sup> per ledare	Ytterdiameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
<b>CLEAN CABLE</b>				
83101010	3 G 1,5	9,7	43,2	106
83101011	3 G 2,5	10,9	72	149
83101012	4 G 1,5	10,6	57,6	130
83101013	4 G 2,5	12,0	96	186
83101014	4 G 4	13,6	153,6	272
83101015	4 G 6	15,4	230,4	377
83101016	4 G 10	18,5	384	588
83101017	4 G 16	21,5	614,4	880
83101018	4 G 25	26,4	960	1 365
83101019	4 G 35	30,1	1 344	1 784



**UNITRONIC® BUS PB**  
PROFIBUS cables for fixed applications

**Info**

- LAPP is a member of the PROFIBUS User Organisation (PNO)
- A for Advanced here: UL and CSA certifications
- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)



**Application range**

- For fixed installation
- Maximum electromagnetic screening
- Dry or damp rooms
- Item nos. 2170233, 2170333, 2170820, 2170824, 2170826 are all UV-resistant

**Product features**

- These bus cables can be used for PROFIBUS-DP 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  
 187.5 kbit/s = 1000 m  
 500 kbit/s = 400 m  
 1.5 Mbit/s = 200 m  
 12.0 Mbit/s = 100 m

**Norm references / Approvals**

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

**Product Make-up**

- FC: Fast Connect cable design
- P: Polyurethane
- H: Halogen-free
- PE: polyethylene outer sheath, black
- 7-W: 7-wire, e.g. for applications where vibrations occur
- COMBI: Data transmission and power supply in one cable

**Technical data**

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000830  
ETIM 5.0/6.0 Class-Description: Data cable
- Mutual capacitance**  
(800 Hz): max. 30 nF/km
- Peak operating voltage**  
(not for power applications) 250 V
- Conductor resistance**  
(loop): max. 186 Ohm/km.  
see also datasheet
- Minimum bending radius**  
Fixed installation: see data sheet
- Test voltage**  
Core/core: 1500 V rms
- Characteristic impedance**  
150 ± 15 Ohm

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>Conventional cable makeup</b>					
2170220	UNITRONIC® BUS PB	1 x 2 x 0.64	8.0	30.1	74
2170233	UNITRONIC® PB PE	1 x 2 x 0.64	8.0	30.1	57
2170226	UNITRONIC® BUS PB H 7-W	1 x 2 x 0.64	8.0	30.1	55
2170225	UNITRONIC® BUS PB COMBI 7-W	1 x 2 x 0,64 Ø + 3 x 1,0 mm <sup>2</sup>	9.8	59.0	92
<b>Conventional cable makeup - UL/CSA CMX certification</b>					
2170219	UNITRONIC® BUS PB A	1 x 2 x 0.64	8.0	30.1	57
<b>Conventional cable makeup - UL/CSA CMG certification</b>					
2170824	UNITRONIC® BUS PB 7-W A	1 x 2 x 0.64	8.0	30.1	55
<b>Fast Connect</b>					
2170333	UNITRONIC® BUS PB PE FC	1 x 2 x 0.64	8.0	26.0	67
<b>Fast Connect - UL/CSA CMX certification</b>					
2170330	UNITRONIC® BUS PB P FC	1 x 2 x 0.64	8.0	26.0	71
<b>Fast Connect cable makeup - UL/CSA CMG certification</b>					
2170820	UNITRONIC® BUS PB FC	1 x 2 x 0.64	8.0	26.0	84
2170826	UNITRONIC® BUS PB 7-W FC	1 x 2 x 0.64	8.0	26.0	67
2170326	UNITRONIC® BUS PB-H FC	1 x 2 x 0.64	8.0	26.0	72

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
 Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
 Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
 Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
 Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
 SIMATIC NET® is a registered trademark of Siemens AG  
 Lapp Kabel is a member of the PROFIBUS user organisation (PNO)  
 Photographs and graphics are not to scale and do not represent detailed images of the respective products.



**EPIC® DATA PB Sub-D**

PROFIBUS connectors with screw terminals REPEATER function ATEX

**Info**

- Optional with LED diagnostic
- M12, REPEATER and ATEX version
- Versions with 2nd Sub-D interface



**Benefits**

- Easy connection with tried-and-tested M12 / screw terminal technology
- Sensor/ ac
- Terminating resistor (integrated) can be switched
- REPEATER version: Regeneration of data signal (slope, power and mark-to-space ratio)
- ATEX version: For use within intrinsically-safe circuits in zone 2 areas with an explosion hazard (explosive gas atmosphere occurs only rarely and briefly)

**Product features**

- Max. transmission rate 12 Mbit/s possible
- Current consumption max. 12,5 mA (with LED 35 mA / REPEATER 100 mA)
- Supply voltage 4.75 - 5.25 V DC (supplied from the terminal)
- Terminating resistor "ON" - the outbound bus cable is disconnected
- REPEATER version: Easy extension of the PROFIBUS network:
  - up to 3 repeaters
  - 1 additional PROFIBUS segment
  - galvanic isolation

**Norm references / Approvals**

- IEC 61158, IEC 61784
- UL File No. E331560
- ATEX version: DIN EN 60079-0:2006, DIN 60079-15:2005 (category 3G zone 2)

**Product Make-up**

- D-Sub plug, 9-pin, fixing screws 4-40 UNC
- Improved electromagnetic compatibility (EMC) by metallized housing
- Versions with additional Sub-D interface for programming/diagnostic ('PG')
- For cable outer diameter: 5 8 mm / M12 B-coded cordsets
- LED Version indicate:
  - bus operation - (green)
  - station transmission - (blue)
  - terminating resistor "on" - (orange)

**Suitable cables**

- UNITRONIC® BUS PB
- UNITRONIC® BUS PB M12
- UNITRONIC® BUS PB M12-M12

**Suitable tools**

- Kraftform® adjustable torque screwdriver/ Kraftform Kompakt® Set

**Technical data**

**Classification ETIM 5/6**  
 ETIM 5.0/6.0 Class-ID: EC001132  
 ETIM 5.0/6.0 Class-Description: D-Sub connector

**Dimensions**  
 54 mm x 40 mm x 17 mm - 35°  
 64 mm x 40 mm x 17 mm - 90°  
 68 mm x 40 mm x 17 mm - 180°  
 70 mm x 40 mm x 17 mm - M12 (LxWxH)

**Connection type**  
 Screwing  
 M12

**Protection rating**  
 IP 20

**Terminating resistor**  
 150 Ω

**Interfaces**  
 Sub-D socket, 9-pin  
 Terminal blocks up to 1.0 mm<sup>2</sup> / M12 B-coded

**Permissible ambient conditions**  
 Operating temperature: -25°C to +85°C  
 \*The max. temperature for UL is 60 °C

Article number	Article designation	Version	PG-Interface	Diagnostic LEDs	PU
<b>35° cable outlet</b>					
21700507	ED-PB-35		no	no	1
21700506	ED-PB-35-PG		yes	no	1
<b>90° cable outlet</b>					
21700504	ED-PB-90		no	no	1
21700503	ED-PB-90-PG		yes	no	1
21700530	ED-PB-90-LED		no	yes	1
21700529	ED-PB-90-PG-LED		yes	yes	1
21700541	ED-PB-90-RP-PG	REPEATER	yes	yes	1
21700543	ED-PB-90-ATEX	ATEX	no	no	1
21700542	ED-PB-90-PG-ATEX	ATEX	yes	no	1
<b>180° (AX) cable outlet</b>					
21700505	ED-PB-AX		no	no	1

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



## H05Z-K 90°C

Harmonised; halogen-free to protect human life, the environment and material assets

### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- Halogen-free and harmonised (HAR)
- For expanded ambient temperatures see ÖLFLEX® HEAT 125 SC



### Benefits

- Protection of human life and the environment thanks to the avoidance of the formation of acid in case of fire
- Time-saving assembly

### Application range

- For wiring of lamps, devices, switchgear cabinets and distribution boxes
- For installation in tubes, on, in and under plaster as well as in closed installation ducts
- In building with a high density of people or valuable assets
- For use in dry rooms
- For expanded ambient temperatures see ÖLFLEX® HEAT 125 SC

### Product features

- The insulation material is halogen-free and free of other materials which could release toxic gases in the event of fire
- Low amount of corrosive gases in the event of fire
- Low smokes/low smoke density in the event of fire according to IEC 61034
- Flame-retardant according to IEC 60332-1-2

### Norm references / Approvals

- <HAR> cable type certification acc. EN 50525-3-41

### Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation: Halogen-free

### Technical data

	<b>Classification ETIM 5/6</b> ETIM 5.0/6.0 Class-ID: EC000993 ETIM 5.0/6.0 Class-Description: Single core cable
	<b>Conductor stranding</b> Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
	<b>Minimum bending radius</b> According to EN 50565-1 4 x outer diameter (OD) for normal use; 2 x OD for cautions bending
	<b>Nominal voltage</b> U0/U: 300/500 V
	<b>Test voltage</b> 2000 V AC
	<b>Current rating</b> VDE 0298-4 EN 50565-1/ VDE 0298-565-1
	<b>Temperature range</b> During installation: -5°C bis +90°C Fixed installation: -40°C bis +90°C

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange
0.5	2.1 - 2.6	green/yellow	100		4.8	9	4725061	4725051	4725111	4725091
0.5	2.1 - 2.6	green/yellow		3,000	4.8	9	4725061K	4725051K	4725111K	4725091K
0.75	2.2 - 2.8	green/yellow	100		7.2	11	4725062	4725052	4725112	4725092
0.75	2.2 - 2.8	green/yellow		2,500	7.2	11	4725062K	4725052K	4725112K	4725092K
1	2.4 - 2.9	green/yellow	100		9.6	14	4725063	4725053	4725113	4725093
1	2.4 - 2.9	green/yellow		2,000	9.6	14	4725063K	4725053K	4725113K	4725093K

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	red	violet	blue	green
0.5	2.1 - 2.6	green/yellow	100		4.8	9	4725041	4725071	4725021	4725121
0.5	2.1 - 2.6	green/yellow		3,000	4.8	9	4725041K	4725071K	4725021K	4725121K
0.75	2.2 - 2.8	green/yellow	100		7.2	11	4725042	4725072	4725022	4725122
0.75	2.2 - 2.8	green/yellow		2,500	7.2	11	4725042K	4725072K	4725022K	4725122K
1	2.4 - 2.9	green/yellow	100		9.6	14	4725043	4725073	4725023	4725123
1	2.4 - 2.9	green/yellow		2,000	9.6	14	4725043K	4725073K	4725023K	4725123K

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	brown	black	green/yellow	dark blue
0.5	2.1 - 2.6	green/yellow	100		4.8	9	4725031	4725011	4725001	4725141
0.5	2.1 - 2.6	green/yellow		3,000	4.8	9	4725031K	4725011K	4725001K	4725141K
0.75	2.2 - 2.8	green/yellow	100		7.2	11	4725032	4725012	4725002	4725142
0.75	2.2 - 2.8	green/yellow		2,500	7.2	11	4725032K	4725012K	4725002K	4725142K
1	2.4 - 2.9	green/yellow	100		9.6	14	4725033	4725013	4725003	4725143
1	2.4 - 2.9	green/yellow		2,000	9.6	14	4725033K	4725013K	4725003K	4725143K





## H07Z-K 90°C

Harmonised; halogen-free to protect human life, the environment and material assets



### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- Halogen-free and harmonised (HAR)
- For expanded ambient temperatures and higher conductor cross-sections see ÖLFLEX® HEAT 125 SC



### Benefits

- Protection of human life and the environment thanks to the avoidance of the formation of acid in case of fire
- Time-saving assembly

### Application range

- For wiring of lamps, devices, switchgear cabinets and distribution boxes
- For installation in tubes, on, in and under plaster as well as in closed installation ducts
- In building with a high density of people or valuable assets
- For use in dry rooms
- For expanded ambient temperatures and higher conductor cross-sections see ÖLFLEX® HEAT 125 SC

### Product features

- The insulation material is halogen-free and free of other materials which could release toxic gases in the event of fire

- Low amount of corrosive gases in the event of fire
- Low smokes/low smoke density in the event of fire according to IEC 61034
- Flame-retardant according to IEC 60332-1-2

### Norm references / Approvals

- <HAR> cable type certification acc. EN 50525-3-41
- No cable type certified core insulation colours according to EN 50525-1/ VDE 0285-525-1: transparent, green (single colour), yellow (single colour), all double colours (except of green-yellow and yellow-green)

### Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation: Halogen-free

### Technical data

	<b>Classification ETIM 5/6</b> ETIM 5.0/6.0 Class-ID: EC000993 ETIM 5.0/6.0 Class-Description: Single core cable
	<b>Conductor stranding</b> Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
	<b>Minimum bending radius</b> According to EN 50565-1 OD ≤ 8 mm: 4 x OD* / 2 x OD**; 8 < OD ≤ 12 mm: 5 x OD* / 3 x OD**; OD > 12 mm: 6 x OD* / 4 x OD**
	<b>Nominal voltage</b> U0/U: 450/ 750 V
	<b>Test voltage</b> 2500 V
	<b>Current rating</b> VDE 0298-4 EN 50565-1/ VDE 0298-565-1
	<b>Temperature range</b> During installation: -5°C bis +90°C Fixed installation: -40°C bis +90°C

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange
1.5	2.8 - 3.5	green/yellow	100		14.4	20	4726061	4726051	4726111	4726091
1.5	2.8 - 3.5	green/yellow		1,500	14.4	20	4726061K	4726051K	4726111K	4726091K
2.5	3.4 - 4.3	green/yellow	100		24.0	32	4726062	4726052	4726112	4726092
2.5	3.4 - 4.3	green/yellow		900	24.0	32	4726062K	4726052K	4726112K	4726092K
4	3.9 - 4.9	green/yellow	100		38.4	45	4726063	4726053	4726113	4726093
4	3.9 - 4.9	green/yellow		600	38.4	45	4726063K	4726053K	4726113K	4726093K
6	4.4 - 5.5	green/yellow	100		57.6	65	4726064	4726054	4726114	4726094
6	4.4 - 5.5	green/yellow		400	57.6	65	4726064K	4726054K	4726114K	4726094K
10	5.7 - 7.1	green/yellow	100		96.0	110	4726065	4726055	4726115	4726095
16	6.7 - 8.4	green/yellow	100		153.6	170	4726066	4726056	4726116	4726096
25	8.4 - 10.6	green/yellow	100		240.0	290	4726067	4726057	4726117	4726097
35	9.7 - 12.1	green/yellow			336.0	380	4726068	4726058	4726118	4726098
50	11.5 - 14.4	green/yellow			480.0	530	4726069	4726059	4726119	4726099
70	13.2 - 16.6	green/yellow			672.0	750	4727061	4727051	4727111	4727091
95	15.1 - 18.8	green/yellow			912.0	1,000	4727062	4727052	4727112	4727092

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	red	violet	blue	green
1.5	2.8 - 3.5	green/yellow	100		14.4	20	4726041	4726071	4726021	4726121
1.5	2.8 - 3.5	green/yellow		1,500	14.4	20	4726041K	4726071K	4726021K	4726121K
2.5	3.4 - 4.3	green/yellow	100		24.0	32	4726042	4726072	4726022	4726122
2.5	3.4 - 4.3	green/yellow		900	24.0	32	4726042K	4726072K	4726022K	4726122K
4	3.9 - 4.9	green/yellow	100		38.4	45	4726043	4726073	4726023	4726123
4	3.9 - 4.9	green/yellow		600	38.4	45	4726043K	4726073K	4726023K	4726123K
6	4.4 - 5.5	green/yellow	100		57.6	65	4726044	4726074	4726024	4726124
6	4.4 - 5.5	green/yellow		400	57.6	65	4726044K	4726074K	4726024K	4726124K
10	5.7 - 7.1	green/yellow	100		96.0	110	4726045	4726075	4726025	4726125
16	6.7 - 8.4	green/yellow	100		153.6	170	4726046	4726076	4726026	4726126

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	red	violet	blue	green
25	8.4 - 10.6	green/yellow	100		240.0	290	4726047	4726077	4726027	4726127
35	9.7 - 12.1	green/yellow			336.0	380	4726048	4726078	4726028	4726128
50	11.5 - 14.4	green/yellow			480.0	530	4726049	4726079	4726029	4726129
70	13.2 - 16.6	green/yellow			672.0	750	4727041	4727071	4727021	4727121
95	15.1 - 18.8	green/yellow			912.0	1,000	4727042	4727072	4727022	4727122

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	brown	black	green/yellow	dark blue
1.5	2.8 - 3.5	green/yellow	100		14.4	20	4726031	4726011	4726001	4726141
1.5	2.8 - 3.5	green/yellow		1,500	14.4	20	4726031K	4726011K	4726001K	4726141K
2.5	3.4 - 4.3	green/yellow	100		24.0	32	4726032	4726012	4726002	4726142
2.5	3.4 - 4.3	green/yellow		900	24.0	32	4726032K	4726012K	4726002K	4726142K
4	3.9 - 4.9	green/yellow	100		38.4	45	4726033	4726013	4726003	4726143
4	3.9 - 4.9	green/yellow		600	38.4	45	4726033K	4726013K	4726003K	4726143K
6	4.4 - 5.5	green/yellow	100		57.6	65	4726034	4726014	4726004	4726144
6	4.4 - 5.5	green/yellow		400	57.6	65	4726034K	4726014K	4726004K	4726144K
10	5.7 - 7.1	green/yellow	100		96.0	110	4726035	4726015	4726005	4726145
16	6.7 - 8.4	green/yellow	100		153.6	170	4726036	4726016	4726006	4726146
25	8.4 - 10.6	green/yellow	100		240.0	290	4726037	4726017	4726007	4726147
35	9.7 - 12.1	green/yellow			336.0	380	4726038	4726018	4726008	4726148
50	11.5 - 14.4	green/yellow			480.0	530	4726039	4726019	4726009	4726149
70	13.2 - 16.6	green/yellow			672.0	750	4727031	4727011	4727001	4727141
95	15.1 - 18.8	green/yellow			912.0	1,000	4727032	4727012	4727002	4727142

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	blue/white	pink
1.5	2.8 - 3.5	green/yellow	100		14.4	20		4726081
1.5	2.8 - 3.5	green/yellow		1,500	14.4	20	4726261K	4726081K
2.5	3.4 - 4.3	green/yellow	100		24.0	32		4726082
2.5	3.4 - 4.3	green/yellow		900	24.0	32	4726262K	4726082K
4	3.9 - 4.9	green/yellow	100		38.4	45		4726083
4	3.9 - 4.9	green/yellow		600	38.4	45		4726083K
6	4.4 - 5.5	green/yellow	100		57.6	65		4726084
6	4.4 - 5.5	green/yellow		400	57.6	65		4726084K
10	5.7 - 7.1	green/yellow	100		96.0	110		4726085
16	6.7 - 8.4	green/yellow	100		153.6	170		4726086
25	8.4 - 10.6	green/yellow	100		240.0	290		4726087
35	9.7 - 12.1	green/yellow			336.0	380		4726088
50	11.5 - 14.4	green/yellow			480.0	530		4726089
70	13.2 - 16.6	green/yellow			672.0	750		4727081
95	15.1 - 18.8	green/yellow			912.0	1,000		4727082

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Packaging size: Coil ≤ 30 kg, otherwise drum

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

\*for conventional use, \*\*for careful bending; "OD" = outer diameter



## ÖLFLEX® HEAT 125 SC

VDE tested single cores according to EN 50525-3-41 (H05Z-K & H07Z-K) for more demanding requirements



### Info

- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)
- VDE-tested and -marked
- Improved characteristics in the event of a fire



### Benefits

- For safety in areas with high density of people
- Reduction of flame propagation, density and toxicity of smoke gases in event of fire
- Minimises damage to buildings and equipment caused by the formation of toxic acid fumes in fires
- Certified for maritime applications

### Application range

- For the wiring and connection of lighting, heating appliances, control cabinets, and distributors in mechanical and plant engineering
- For installation in tubes, on, in and under plaster as well as in closed installation ducts
- Coil winding, electromagnets, pumps, electrical systems
- Heat treatment plants, pressure die casting, heating and cooling technology
- Suitable for assembling cable harnesses and wiring during switch cabinet installation

### Product features

- Fire behaviour:
  - Flame-retardant (IEC 60332-1-2)
  - Halogen-free (IEC 60754-1)
  - No corrosive gases (IEC 60754-2)
  - Low smoke density (IEC 61034-2)
  - Low toxicity (EN 50305)
- Extended fire behaviour:
  - H05Z-K (0,5mm<sup>2</sup> up to 1,0mm<sup>2</sup>): see data sheet
  - H07Z-K (≥ 1,5mm<sup>2</sup>): no fire propagation according to IEC 60332-3-24 respectively IEC 60332-3-25
- Oil-resistant according to DIN EN 50290-2-22 (TM54)
- Abrasion and notch-resistant
- UV-resistant according to ISO 4892-2, method A, and ozone resistant acc. to EN 50396 resp. VDE 0473-396, method B

### Norm references / Approvals

- Type H05Z-K and H07Z-K according to EN 50525-3-41 with advanced features
- Germanischer Lloyd (GL) certificate no. 11118-14HH

### Product Make-up

- Fine-wire, tinned-copper conductor
- Electron beam cross-linked polyolefin copolymer insulation

### 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 acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm<sup>2</sup>
- Minimum bending radius**  
 Fixed installation: 4 x outer diameter
- Nominal voltage**  
 Up to 1.0mm<sup>2</sup> U<sub>0</sub>/U 300/500 V  
 From 1.5mm<sup>2</sup> U<sub>0</sub>/U 450/750 V  
 0.6/1kV from 1.5 mm<sup>2</sup> in the case of fixed and protected installation
- Test voltage**  
 4000 V
- Temperature range**  
 Fixed installation: -55°C to +125°C  
 Temporary (3.000h): up to +145°C

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange	red	violet
<b>ÖLFLEX® HEAT 125 SC - H05Z-K - U<sub>0</sub>/U: 300/500 V</b>												
0.5	2.2	green/yellow	100		4.8	8.0	1232106	1232105	1232005	1232009	1232104	1232007
0.75	2.4	green/yellow	100		7.2	11.0	1233106	1233105	1233005	1233009	1233104	1233007
0.75	2.4	brown		2,500	7.2	11.0	1233106K	1233105K		1233009K	1233104K	
1.0	2.5	green/yellow	100		9.6	14.0	1234106	1234105	1234005	1234009	1234104	1234007
1.0	2.5	brown		2,500	9.6	14.0	1234106K	1234105K		1234009K	1234104K	
<b>ÖLFLEX® HEAT 125 SC - H07Z-K - U<sub>0</sub>/U: 450/750 V</b>												
1.5	3.0	green/yellow	100		14.4	21.0	1235106	1235105	1235005	1235009	1235104	1235007
1.5	3.0	brown		2,000	14.4	21.0	1235106K	1235105K		1235009K	1235104K	
2.5	3.6	green/yellow	100		24.0	33.0	1236106	1236105	1236005	1236009	1236104	1236007
4.0	4.3	green/yellow	100		38.4	49.0	1237106	1237105		1237009	1237104	
6.0	4.8	green/yellow	100		57.6	67.0	1238106				1238104	
10.0	6.2	green/yellow	100		96.0	112.0					1239104	
16.0	7.2	green/yellow	100		153.6	172.0					1240104	

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	blue	green	brown	black	green/yellow	dark blue
<b>ÖLFLEX® HEAT 125 SC - H05Z-K - U<sub>0</sub>/U: 300/500 V</b>												
0.5	2.2	green/yellow	100		4.8	8.0	1232002	1232006	1232003	1232001	1232000	1232114
0.5	2.2	black		3,000	4.8	8.0				1232001K		

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Core colour	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	blue	green	brown	black	green/yellow	dark blue
0.75	2.4	green/yellow	100		7.2	11.0	1233002	1233006	1233003	1233001	1233000	1233114
0.75	2.4	brown		2,500	7.2	11.0	1233002K		1233003K	1233001K		1233114K
1.0	2.5	green/yellow	100		9.6	14.0	1234002	1234006	1234003	1234001	1234000	1234114
1.0	2.5	brown		2,500	9.6	14.0	1234002K		1234003K	1234001K	1234000K	1234114K
<b>ÖLFLEX® HEAT 125 SC - H07Z-K - U<sub>0</sub>/U: 450/750 V</b>												
1.5	3.0	green/yellow	100		14.4	21.0	1235002	1235006	1235003	1235001	1235000	1235114
1.5	3.0	brown		2,000	14.4	21.0	1235002K		1235003K	1235001K	1235000K	1235114K
2.5	3.6	green/yellow	100		24.0	33.0	1236002	1236006	1236003	1236001	1236000	1236114
2.5	3.6	black		1,200	24.0	33.0				1236001K		
4.0	4.3	green/yellow	100		38.4	49.0	1237002		1237003	1237001	1237000	1237114
6.0	4.8	green/yellow	100		57.6	67.0	1238002		1238003	1238001	1238000	1238114
10.0	6.2	green/yellow	100		96.0	112.0	1239002		1239003	1239001	1239000	
16.0	7.2	green/yellow	100		153.6	172.0	1240002		1240003	1240001	1240000	1240114
25.0	8.9	green/yellow	100		240.0	262.0				1241001	1241000	
35.0	10.1	green/yellow	100		336.0	362.0				1242001	1242000	
50.0	12.5	green/yellow	100		480.0	512.0				1243001	1243000	
70.0	14.2	green/yellow	100		672.0	710.0				1244001	1244000	
95.0	16.6	green/yellow	100		912.0	937.0				1245001	1245000	
120.0	18.2	black	100		1,152.0	1,159.0				1246001		
150.0	20.6	green/yellow	100		1,440.0	1,447.0				1247001	1247000	
185.0	22.5	black	100		1,776.0	1,790.0				1248001		
240.0	26.4	black	100		2,304.0	2,318.0				1249001		

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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



## MULTI-STANDARD SC 2.1

USA: UL-listed (MTW), Canada: CSA (TEW), Europe: <HAR> H07V-K (depending on cross s.), tin-coated strands



### Info

- The all-rounder for many markets
- CPR: Article number choice under [www.lappgroup.dk/cpr](http://www.lappgroup.dk/cpr)



### Benefits

- For use in the most important global markets
- Reduction in technical documentation
- Easier storage; increases the cost-effectiveness of the production process
- Works with "Conductor end sleeves XL, insulated"

### Application range

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

### Product features

- Flame-retardant according IEC 60332-1-2
- Flame-retardant according to UL VW1/CSA FT1
- Oil-resistant

### Norm references / Approvals

- Multi-standard cables have conductor strands with nominal sizes in mm<sup>2</sup> or AWG/kcmil. The master size is mentioned in the table below, while the equivalent size of the other system can be found in the Appendix T 16 of this catalogue. For this related secondary size the cross-section of the conductor mostly works out to be greater than the specified nominal value.
- Cable type certifications: <HAR> H07V-K acc. EN 50525-2-31, UL AWM style 1015 (by UL acc. UL standard UL 758, U.I. Lapp GmbH's UL AWM file number: E63634), (UL) MTW (by UL acc. UL standard UL 1063, U.I. Lapp GmbH's (UL) MTW file number: E198296), CSA TEW (by CSA acc. CSA standard CSA C22.2 No. 127, CSA class 5835-01)

### Product Make-up

- Fine-wire strand made of tinned-copper wires
- Special PVC-based core insulation

### 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**  
 OD ≤ 8 mm: 4 x OD\* / 2 x OD\*\*;  
 8 < OD ≤ 12 mm: 5 x OD\* / 3 x OD\*\*;  
 OD > 12 mm: 6 x OD\* / 4 x OD\*\*
- Nominal voltage**  
 HAR / IEC: U0/U: 450/750 V;  
 UL (AWM): U: 600 V;  
 UL (MTW): U: 600 V;  
 CSA (TEW): U: 600 V
- Temperature range**  
 Fixed installation:  
 HAR/IEC: -40°C to +70°C;  
 UL (AWM): up to +105°C;  
 UL (MTW): up to +90°C;  
 CSA (TEW): up to +105°C

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	grey	white
0.5	2.7	100		4.8	11	4160106	4160105
0.5	2.7		3,000	4.8	11	4160106K	4160105K
0.75	2.9	100		7.2	14	4160206	4160205
0.75	2.9		2,500	7.2	14	4160206K	4160205K
1	3.1	100		9.6	16	4160306	4160305
1	3.1		2,000	9.6	16	4160306K	4160305K
1.5	3.4	100		14.4	22	4160406	4160405
1.5	3.4		1,500	14.4	22	4160406K	4160405K
2.5	4.0	100		24.0	37	4160506	4160505
2.5	4.0		900	24.0	37	4160506K	4160505K
4	4.6	100		38.4	49	4160606	4160605
6	5.1	100		57.6	67	4160706	4160705
6	5.1		400	57.6	67	4160706K	
10	6.8	100		96.0	120	4160806	4160805
16	9.0	100		153.6	185	4160906	4160905
25	10.2	100		240.0	260	4161006	
35	11.7			336.0	360	4161106	

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	yellow	orange
0.5	2.7	100		4.8	11	4160110	4160109
0.5	2.7		3,000	4.8	11		4160109K
0.75	2.9	100		7.2	14	4160210	4160209
0.75	2.9		2,500	7.2	14		4160209K
1	3.1	100		9.6	16	4160310	4160309
1	3.1		2,000	9.6	16	4160310K	4160309K
1.5	3.4	100		14.4	22	4160410	4160409
1.5	3.4		1,500	14.4	22	4160410K	4160409K
2.5	4.0	100		24.0	37	4160510	4160509
2.5	4.0		900	24.0	37	4160510K	4160509K
4	4.6	100		38.4	49	4160610	4160609
4	4.6		600	38.4	49	4160610K	4160609K
6	5.1	100		57.6	67	4160710	4160709
6	5.1		400	57.6	67		4160709K
10	6.8	100		96.0	120	4160810	4160809
16	9.0	100		153.6	185	4160910	4160909
25	10.2	100		240.0	260	4161010	4161009

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	red	violet
0.5	2.7	100		4.8	11	4160104	4160107
0.5	2.7		3,000	4.8	11	4160104K	4160107K
0.75	2.9	100		7.2	14	4160204	4160207
0.75	2.9		2,500	7.2	14	4160204K	4160207K
1	3.1	100		9.6	16	4160304	4160307
1	3.1		2,000	9.6	16	4160304K	
1.5	3.4	100		14.4	22	4160404	4160407
1.5	3.4		1,500	14.4	22	4160404K	
2.5	4.0	100		24.0	37	4160504	4160507
2.5	4.0		900	24.0	37	4160504K	
4	4.6	100		38.4	49	4160604	4160607
4	4.6		600	38.4	49	4160604K	
6	5.1	100		57.6	67	4160704	4160707
6	5.1		400	57.6	67	4160704K	
10	6.8	100		96.0	120	4160804	
16	9.0	100		153.6	185	4160904	
25	10.2	100		240.0	260	4161004	
35	11.7			336.0	360	4161104	

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	blue	green
0.5	2.7	100		4.8	11	4160102	4160111
0.5	2.7		3,000	4.8	11	4160102K	
0.75	2.9	100		7.2	14	4160202	4160211
0.75	2.9		2,500	7.2	14	4160202K	
1	3.1	100		9.6	16	4160302	4160311
1	3.1		2,000	9.6	16	4160302K	
1.5	3.4	100		14.4	22	4160402	4160411
1.5	3.4		1,500	14.4	22	4160402K	
2.5	4.0	100		24.0	37	4160502	4160511
2.5	4.0		900	24.0	37	4160502K	
4	4.6	100		38.4	49	4160602	4160611
4	4.6		600	38.4	49	4160602K	
6	5.1	100		57.6	67	4160702	4160711
6	5.1		400	57.6	67	4160702K	
10	6.8	100		96.0	120	4160802	4160811
16	9.0	100		153.6	185	4160902	4160911
25	10.2	100		240.0	260	4161002	4161011
35	11.7			336.0	360	4161102	4161111
50	13.9			480.0	535	4161202	4161211
95	18.2			912.0	930	4161402	
120	19.8			1,152.0	1,160	4161502	

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	brown	black
0.5	2.7	100		4.8	11	4160103	4160101
0.5	2.7		3,000	4.8	11	4160103K	4160101K
0.75	2.9	100		7.2	14	4160203	4160201
0.75	2.9		2,500	7.2	14	4160203K	4160201K
1	3.1	100		9.6	16	4160303	4160301
1	3.1		2,000	9.6	16	4160303K	4160301K
1.5	3.4	100		14.4	22	4160403	4160401
1.5	3.4		1,500	14.4	22	4160403K	4160401K
2.5	4.0	100		24.0	37	4160503	4160501
2.5	4.0		900	24.0	37	4160503K	4160501K
4	4.6	100		38.4	49	4160603	4160601
4	4.6		600	38.4	49	4160603K	4160601K
6	5.1	100		57.6	67	4160703	4160701
6	5.1		400	57.6	67		4160701K
10	6.8	100		96.0	120	4160803	4160801
16	9.0	100		153.6	185	4160903	4160901
25	10.2	100		240.0	260	4161003	4161001
35	11.7			336.0	360		4161101
50	13.9			480.0	535		4161201
70	16.0			672.0	735		4161301
95	18.2			912.0	930		4161401
120	19.8			1,152.0	1,160		4161501

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	green/yellow	dark blue
0.5	2.7	100		4.8	11	4160100	4160114
0.5	2.7		3,000	4.8	11		4160114K
0.75	2.9	100		7.2	14	4160200	4160214
0.75	2.9		2,500	7.2	14	4160200K	4160214K
1	3.1	100		9.6	16	4160300	4160314
1	3.1		2,000	9.6	16	4160300K	4160314K
1.5	3.4	100		14.4	22	4160400	4160414
1.5	3.4		1,500	14.4	22	4160400K	4160414K
2.5	4.0	100		24.0	37	4160500	4160514
2.5	4.0		900	24.0	37	4160500K	4160514K
4	4.6	100		38.4	49	4160600	4160614
4	4.6		600	38.4	49	4160600K	
6	5.1	100		57.6	67	4160700	4160714
6	5.1		400	57.6	67	4160700K	4160714K

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	green/yellow	dark blue
10	6.8	100		96.0	120	4160800	4160814
16	9.0	100		153.6	185	4160900	4160914
25	10.2	100		240.0	260	4161000	
35	11.7			336.0	360	4161100	
50	13.9			480.0	535	4161200	
70	16.0			672.0	735	4161300	
95	18.2			912.0	930	4161400	
120	19.8			1,152.0	1,160	4161500	

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	blue/white	pink
0.5	2.7	100		4.8	11	4160126	4160108
0.75	2.9	100		7.2	14	4160226	4160208
0.75	2.9		2,500	7.2	14	4160226K	
1	3.1	100		9.6	16	4160326	4160308
1	3.1		2,000	9.6	16	4160326K	
1.5	3.4	100		14.4	22	4160426	4160408
1.5	3.4		1,500	14.4	22	4160426K	
2.5	4.0	100		24.0	37	4160526	
4	4.6	100		38.4	49	4160626	
6	5.1	100		57.6	67	4160726	
10	6.8	100		96.0	120	4160826	

Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)	white/blue
0.5	2.7	100		4.8	11	4160144
0.5	2.7		3,000	4.8	11	4160144K
0.75	2.9	100		7.2	14	4160244
0.75	2.9		2,500	7.2	14	4160244K
1	3.1	100		9.6	16	4160344
1	3.1		2,000	9.6	16	4160344K
1.5	3.4	100		14.4	22	4160444
1.5	3.4		1,500	14.4	22	4160444K
2.5	4.0	100		24.0	37	4160544
2.5	4.0		900	24.0	37	4160544K
4	4.6	100		38.4	49	4160644
6	5.1	100		57.6	67	4160744
10	6.8	100		96.0	120	4160844

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Packaging size: Coil ≤ 30 kg, otherwise drum

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

Non-harmonised, nominal cross-sections: 0.5 mm<sup>2</sup>, 0.75 mm<sup>2</sup>, 1 mm<sup>2</sup>, 16 mm<sup>2</sup>

\*for conventional use, \*\*for careful bending; "OD" = outer diameter

The outer diameters stated in the part number table are maximum values.

"HIGH RUNNERS" FRA LAPP!

# PRODUKTER TIL SOLCELLER

I mere en ti år har LAPP med succes udviklet produkter til tilslutning af solcelleanlæg. I denne flyer præsenterer vi dig for "high runners", som du tilbydes til hurtig levering direkte fra vores lager og til konkurrencedygtige priser.

## Solcellekabel H1Z2Z2-K

- Halogenfri og med gode brandegenskaber
- Ozon- og vejrbestandig jf. EN 50396 og EN 50618
- Tåler mekanisk påvirkning
- Lederstørrelse i sortimentet: 4 mm<sup>2</sup>-35 mm<sup>2</sup>, tre farver – sort/rød/blå
- Temperaturområde: -40° til +120°C (+90° jf. EN 50618).

"High runners"

ART. NR.	BESKRIVELSE	YDERDIAMETER (mm)	CPR
1023552	H1Z2Z2-K 1X4 SORT	5,8	Eca
1023553	H1Z2Z2-K 1X6 SORT	6,3	Eca
1023572	H1Z2Z2-K 1X4 RØD	5,8	Eca
1023573	H1Z2Z2-K 1X6 RØD	6,3	Eca
1023582	H1Z2Z2-K 1X4 BLÅ	5,8	Eca
1023583	H1Z2Z2-K 1X6 BLÅ	6,3	Eca
38001011	H1Z2Z2-K 1x4 SORT (Dca)	5,4	Dca-s2-d2-a1
38001014	H1Z2Z2-K 1x6 SORT (Dca)	6,2	Dca-s2-d2-a1
38001012	H1Z2Z2-K 1x4 RØD (Dca)	5,4	Dca-s2-d2-a1
38001015	H1Z2Z2-K 1x6 RØD (Dca)	6,2	Dca-s2-d2-a1



## Solcellekabel ÖLFLEX® SOLAR XLWP

- Tåler langvarig nedlægning i vand (flade tag, rør i jorden)
- Halogenfri og med gode brandegenskaber
- Ozon- og vejrbestandig jf. EN 50396 og EN 50618
- Lederstørrelse i sortimentet: 4 mm<sup>2</sup>-16 mm<sup>2</sup>, to farver – sort/sort med rød streg
- Temperaturområde: -40° til +120°C (+90° jf. EN 50618).

"High runners"

ART. NR.	BESKRIVELSE	YDERDIAMETER (mm)	CPR
1023601	ÖLFLEX® SOLAR XLWP 1x4 SORT	5,8	Eca
1023602	ÖLFLEX® SOLAR XLWP 1x6 SORT	6,4	Eca
1023621	ÖLFLEX® SOLAR XLWP 1x4 SORT/RØD	5,8	Eca
1023622	ÖLFLEX® SOLAR XLWP 1x6 SORT/RØD	6,4	Eca





# PRODUKTER TIL SOLCELLER

## EPIC® SOLAR

- Vejrbestandigt stiksystem
- Lav kontaktmodstand for effektiv kraftoverførsel
- Crimpforbindelse til sikker field installation
- Splitter version til parallel tilslutning
- Total sortiment: 2,5 mm<sup>2</sup>–16 mm<sup>2</sup>
- Chassisstik til paneler og skabe
- Temperaturområde 4Plus: -40°C til +105°C
- Temperaturområde Splitter: -40°C til +85°C.



SPLITTER MFF

SPLITTER FMM



"High runners"

ART. NR.	BESKRIVELSE
44428235	EPIC® SOLAR 4Plus M HAN 4...6 mm <sup>2</sup>
44428236	EPIC® SOLAR 4Plus F HUN 4...6 mm <sup>2</sup>
44428226	EPIC® SOLAR 4 Splitter MFF
44428227	EPIC® SOLAR 4 Splitter FMM

## SKINTOP® SOLAR

- Ozon- og vejrbestandig plastforskruning
- Vibrationsbeskyttelse og trækaflastning
- M12 og M16 gevind
- Høj brandklasse jf. UL 94V-0/94-5VA
- Temperaturområde: -40°C till +100°C (plus +125°C).



"High runners"

ART. NR.	BESKRIVELSE	KABELDIAMETER (mm)
53113300	SKINTOP® SOLAR M12	3,5-7
53113310	SKINTOP® SOLAR M16	7-9
53113321	SKINTOP® SOLAR plus M12	3,5-7
53113331	SKINTOP® SOLAR plus M16	7-9

Katalog



Sales  
Support  
4395  
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## SKINTOP® ST-M / SKINTOP® STR-M



### Info

- With IP69 approval! Proven to withstand the most demanding cleaning procedures for industrial machinery with high-pressure cleaners and hot water!
- In practical box available in the web catalogue

### 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

#### SKINTOP® ST-M

- 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

#### SKINTOP® STR-M

- 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

### Note

- SKINTOP® ST(R) M ISO types have an extra-long connection thread
- SKINTOP® ST(R) M ISO versions with extra-long connection thread, see table, no DNV approval

### Suitable cables

- The following cables are recommended for IP 69 applications:  
ÖLFLEX® ROBUST 200  
H07RN8-F  
H07RN-F

### Suitable tools

- SKINMATIC® QUICK Set 1
- SKINMATIC® RZ

### Technical data

**Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000441  
ETIM 5.0/6.0 Class-Description: Cable screw gland

**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

**Colour delivered**  
Silver grey (RAL 7001)  
Light grey (RAL 7035)  
Black (RAL 9005), UV-resistant

**Material**  
Body: Polyamide  
Seal: CR

**Tests**  
GGVS: TÜ.EGG.020-95

**Protection rating**  
IP 66  
IP 68 - 5 bar  
IP 69  
NEMA Type 1, 12

**Temperature range**  
Fixed: -40°C to +100°C  
Dynamic: -20°C to +100°C

Article number	Article designation / size	Ø F mm	SW wrench size mm	Overall length C (mm)	Thread length D mm	Pieces / PU
<b>SKINTOP® ST-M silver grey</b>						
53111000	M 12 x 1,5	3,5-7	15	30.0	8.0	100
53111010	M 16 x 1,5	4-10	19	34.0	8.0	100
53111020	M 20 x 1,5	6-13	25	37.0	9.0	100
53111030	M 25 x 1,5	8-17	30	40.0	10.0	50
53111040	M 32 x 1,5	9-21	36	47.0	10.0	25
53111050	M 40 x 1,5	16-28	46	52.0	10.0	10
53111060	M 50 x 1,5	27-34	55	62.0	12.0	5
53111070	M 63 x 1,5	34-45	66	71.0	12.0	5
<b>SKINTOP® ST-M black</b>						
53111200	M 12 x 1,5	3,5-7	15	30.0	8.0	100
53111210	M 16 x 1,5	4-10	19	34.0	8.0	100
53111220	M 20 x 1,5	6-13	25	37.0	9.0	100
53111230	M 25 x 1,5	8-17	30	40.0	10.0	50
53111240	M 32 x 1,5	9-21	36	47.0	10.0	25
53111250	M 40 x 1,5	16-28	46	52.0	10.0	10
53111260	M 50 x 1,5	27-34	55	62.0	12.0	5
53111270	M 63 x 1,5	34-45	66	71.0	12.0	5
<b>SKINTOP® ST-M light grey</b>						
53111400	M 12 x 1,5	3,5-7	15	30.0	8.0	100
53111410	M 16 x 1,5	4-10	19	34.0	8.0	100
53111420	M 20 x 1,5	6-13	25	37.0	9.0	100
53111430	M 25 x 1,5	8-17	30	40.0	10.0	50
53111440	M 32 x 1,5	9-21	36	47.0	10.0	25
53111450	M 40 x 1,5	16-28	46	52.0	10.0	10
53111460	M 50 x 1,5	27-34	55	62.0	12.0	5
53111470	M 63 x 1,5	34-45	66	71.0	12.0	5
<b>SKINTOP® ST M ISO silver-grey (with long metric connecting thread)</b>						
53017010	M 16 x 1,5 ISO	3,5-8	19	40.0	12.0	100
53017030	M 20 x 1,5 ISO	5-12	24	45.0	13.0	100

Article number	Article designation / size	Ø F mm	SW wrench size mm	Overall length C (mm)	Thread length D mm	Pieces / PU
53017040	M 25 x 1,5 ISO	9-14	27	47.0	13.0	50
<b>SKINTOP® ST M ISO black (with long metric connecting thread)</b>						
53010000	M 12 x 1,5 ISO	3,5-7	15	36.7	15.0	100
53017210	M 16 x 1,5 ISO	3,5-8	19	40.0	12.0	100
53017230	M 20 x 1,5 ISO	5-12	24	45.0	13.0	100
53017240	M 25 x 1,5 ISO	9-14	27	47.0	13.0	50
<b>SKINTOP® STR-M silver grey</b>						
53111100	M 12 x 1,5	2-5	15	30.0	8.0	100
53111110	M 16 x 1,5	3,5-7	19	34.0	8.0	100
53111120	M 20 x 1,5	4-10	25	37.0	9.0	100
53111130	M 25 x 1,5	5-13	30	40.0	10.0	50
53111140	M 32 x 1,5	6-15	36	47.0	10.0	25
53111150	M 40 x 1,5	9-23	46	52.0	10.0	10
53111160	M 50 x 1,5	24-29	55	62.0	12.0	5
53111170	M 63 x 1,5	28-39	66	71.0	12.0	5
<b>SKINTOP® STR-M black</b>						
53111300	M 12 x 1,5	2-5	15	30.0	8.0	100
53111310	M 16 x 1,5	3,5-7	19	34.0	8.0	100
53111320	M 20 x 1,5	4-10	25	37.0	9.0	100
53111330	M 25 x 1,5	5-13	30	40.0	10.0	50
53111340	M 32 x 1,5	6-15	36	47.0	10.0	25
53111350	M 40 x 1,5	9-23	46	52.0	10.0	10
53111360	M 50 x 1,5	24-29	55	62.0	12.0	5
53111370	M 63 x 1,5	28-39	66	71.0	12.0	5
<b>SKINTOP® STR-M light grey</b>						
53111500	M 12 x 1,5	2-5	15	30.0	8.0	100
53111510	M 16 x 1,5	3,5-7	19	34.0	8.0	100
53111520	M 20 x 1,5	4-10	25	37.0	9.0	100
53111530	M 25 x 1,5	5-13	30	40.0	10.0	50
53111540	M 32 x 1,5	6-15	36	47.0	10.0	25
53111550	M 40 x 1,5	9-23	46	52.0	10.0	10
53111560	M 50 x 1,5	24-29	55	62.0	12.0	5
53111570	M 63 x 1,5	28-39	66	71.0	12.0	5
<b>SKINTOP® STR M ISO silver-grey (with long metric connecting thread)</b>						
53017110	M 16 x 1,5 ISO	2-6	19	40.0	12.0	100
53017130	M 20 x 1,5 ISO	4-9	24	45.0	13.0	100
53017140	M 25 x 1,5 ISO	6-12	27	47.0	13.0	50
<b>SKINTOP® STR M ISO black (with long metric connecting thread)</b>						
53017310	M 16 x 1,5 ISO	2-6	19	40.0	12.0	100
53017330	M 20 x 1,5 ISO	4-9	24	45.0	13.0	100
53017340	M 25 x 1,5 ISO	6-12	27	47.0	13.0	50

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



## SKINTOP® MS-M BRUSH

### Info

- NEW: Now also available in size M20x1.5
- SKINTOP® MS-M sizes 75 x 1.5 to 110 x 2 with innovative double lamella gasket for easier assembling of cables with large diameters.



### Benefits

- Optimum, low-resistance 360° screen contact
- Faster than any other comparable system
- Also suitable for continuing the cable screen to another connection
- Uncomplicated and reliable
- Maximum assembly freedom during adjustment

### Application range

- For EMC-compliant earthing of the copper braiding
- Automation systems
- High-power drives
- Frequency converters
- Conveyor and transport systems

### Norm references / Approvals

- UL File Nr. E79903

- UL approval for SKINTOP MS-M BRUSH M 20 x 1,5 up to M 75 x 1,5 plus and SKINTOP MS-M BRUSH 20 x 1,5 XL

### Product Make-up

- Metric connection thread acc. to DIN EN 60423
- Basis for technical information DIN IEC 62444

### Note

- SKINDICHT® SM-PE-M counter nut should be used to ensure optimum contact with painted, anodised or powder-coated housings

### Suitable tools

- SKINMATIC® QUICK Set 1
- SKINMATIC® MH Set
- SKINMATIC® RZ

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000441  
ETIM 5.0/6.0 Class-Description: Cable screw gland
- Caution**  
Refer to Appendix T21 for the installation dimensions and torques
- Material**  
Body: nickel-plated brass  
Cap nut: nickel-plated brass  
Insert: polyamide  
EMC brush: brass wire  
Sealing ring: elastomer  
O-ring: elastomer
- Protection rating**  
IP 68 - 10 bar (M12 - M110)  
IP 69 (M12 - M63)  
NEMA Type 1, 4x, 6, 12
- Temperature range**  
Dynamic: -25°C up to + 100°C  
Fixed: -40°C to +100°C

Article number	Article designation / size	Outer Ø (mm), from - to	Minimum Ø above braiding (mm)	SW wrench size mm	Thread length D mm	Pieces / PU
<b>SKINTOP® MS-M BRUSH</b>						
53112507	M 20 x 1,5	7.0 - 13.0	3.0	24	8.0	25
53112676	M 25 x 1,5	9.0 - 17.0	6.0	29	8.0	10
53112677	M 32 x 1,5	11.0 - 21.0	8.0	36	9.0	5
53112678	M 40 x 1,5	19.0 - 28.0	10.0	45	9.0	5
53112679	M 50 x 1,5	27.0 - 35.0	14.0	54	10.0	5
53112680	M 63 x 1,5	34.0 - 45.0	20.0	67	15.0	1
53112681	M 63 x 1,5 plus	44.0 - 55.0	25.0	75	15.0	1
53112501	M 75 x 1,5	53.0 - 63.0	25.0	95	15.0	1
53112500	M 75 x 1,5 plus	58.0 - 68.0	25.0	95	15.0	1
53112503	M 90 x 2	66.0 - 78.0	40.0	115	20.0	1
53112505	M 110 x 2	76.0 - 88.0	50.0	135	25.0	1
53112504	M 110 x 2 plus	86.0 - 98.0	50.0	135	25.0	1
<b>SKINTOP® MS-M BRUSH XL</b>						
53112527	M 20 x 1,5	7.0 - 13.0	3.0	24	12.0	25
53113727	M 25 x 1,5	9.0 - 17.0	6.0	29	12.0	10
53113728	M 32 x 1,5	11.0 - 21.0	8.0	36	15.0	5
53113729	M 40 x 1,5	19.0 - 28.0	10.0	45	15.0	5
53112673	M 50 x 1,5	27.0 - 35.0	14.0	54	15.0	5

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



## SKINTOP® BRUSH ADD-ON

### Benefits

- Optimum, low-resistance 360° screen contact
- Cutting edges cut through the insulating layer of the housing or switch cabinets, thus guaranteeing an optimum EMC contact
- Easy disassembling
- Visible, large-scale screen contact
- Uncomplicated and reliable

### Application range

- For EMC-compliant earthing of the copper braiding
- For EMC-contact at through bore-holes
- Control cabinet manufacturing
- Automation systems
- Conveyor and transport systems

### Product Make-up

- Metric connection thread acc. to DIN EN 60423
- Basis for technical information DIN IEC 62444

### Info

- Innovative EMC add-on for SKINTOP® ST(R)-M polyamide cable glands.
- Worlds first patented active EMC lock-nut!

### Technical data

**Classification ETIM 5/6**  
 ETIM 5.0/6.0 Class-ID: EC000441  
 ETIM 5.0/6.0 Class-Description: Cable screw gland

**Caution**  
 Refer to Appendix T21 for the installation dimensions and torques  
 Apply SKINTOP® ST-M torques

**Certifications**  
 UL pending

**Material**  
 Body: nickel-plated brass  
 EMC brush: brass

**Temperature range**  
 Dynamic: -20°C to +100°C  
 Depending on the combination of the used cable gland



Article number	Article designation / size	Minimum Ø above braiding (mm)	SW wrench size mm	Thread length D mm	Pieces / PU
<b>SKINTOP® BRUSH ADD-ON</b>					
54110839	M 12 x 1,5	4.0	24	10.0	25
54110840	M 16 x 1,5	4.0	24	10.0	25
54110841	M 20 x 1,5	4.0	24	10.0	10
54110842	M 25 x 1,5	5.0	30	10.0	10
54110843	M 32 x 1,5	6.0	39	12.0	10
54110844	M 40 x 1,5	10.0	47	12.0	5
54110845	M 50 x 1,5	12.0	56	12.0	5
54110846	M 63 x 1,5	16.0	66	12.0	5

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



## Kabelkanaler, smal slits, halogenfria

Med slits 4/6/4 Halogenfria



### Fördelar

- Halogenfritt utförande
- Brett utbud
- Idealisk för förläggning av kablar i mindre dimensioner
- Hög UV-beständighet
- Återvinningsbart material

### Produktgenskaper

- Lätt avbrytbara slitsar, brottanvisning
- Halogenfri, avger inga giftiga eller korrosiva gaser i händelse av brand

### Design/Utförande

- Till varje tvåmeterslängd ingår lock

### Tekniska data



**Godkännanden**  
CE



**Färg**  
Ljusgrå, RAL7035



**Material**  
PC/ABS, självslocknande enligt UL94 V0

**Längd**  
2 000 mm (2 m)



**Temperaturområde**  
-40°C till +100°C

Art nr	Benämning	Bredd (mm)	Höjd (mm)
<b>Kabelkanaler, smal slits, halogenfria</b>			
83182756	ECSH2540 KABELKANAL-HF 25x40 SLITSAD	25	40
83182757	ECSH2560 KABELKANAL-HF 25x60 SLITSAD	25	60
83182758	ECSH2580 KABELKANAL-HF 25x80 SLITSAD	25	80
83182759	ECSH4040 KABELKANAL-HF 40x40 SLITSAD	40	40
83182760	ECSH4060 KABELKANAL-HF 40x60 SLITSAD	40	60
83182761	ECSH4080 KABELKANAL-HF 40x80 SLITSAD	40	80
83182762	ECSH6040 KABELKANAL-HF 60x40 SLITSAD	60	40
83182763	ECSH6060 KABELKANAL-HF 60x60 SLITSAD	60	60
83182764	ECSH6080 KABELKANAL-HF 60x80 SLITSAD	60	80
83182765	ECSH8040 KABELKANAL-HF 80x40 SLITSAD	80	40
83182766	ECSH8060 KABELKANAL-HF 80x60 SLITSAD	80	60
83182767	ECSH8080 KABELKANAL-HF 80x80 SLITSAD	80	80
83182768	ECSH10040 KABELKANAL-HF 100x40 SLITSAD	100	40
83182769	ECSH10060 KABELKANAL-HF 100x60 SLITSAD	100	60
83182770	ECSH10080 KABELKANAL-HF 100x80 SLITSAD	100	80
83182771	ECSH12040 KABELKANAL-HF 120x40 SLITSAD	120	40
83182772	ECSH12060 KABELKANAL-HF 120x60 SLITSAD	120	60
83182773	ECSH12080 KABELKANAL-HF 120x80 SLITSAD	120	80

Halogenfria kabelkanaler i oslitsat, tätt utförande vid förfrågan.



## Kabelkanaler, oslitsade, halogenfria

Med hela sidor, halogenfria



### Fördelar

- Kostadseffektiv som matarkanal
- Perfekt kanal för hiss- och maskininstallationer
- Halogenfritt utförande
- Hög UV-beständighet
- Återvinningsbart material

### Produktgenskaper

- Halogenfri, avger inga giftiga eller korrosiva gaser i händelse av brand

### Design/Utförande

- Fler storlekar vid förfrågan
- Till varje tvåmeterslängd ingår lock

### Tekniska data

	<b>Godkännanden</b> CE
	<b>Färg</b> Ljusgrå, RAL7035
	<b>Material</b> PC/ABS, självslocknande enligt UL94 V0
	<b>Längd</b> 2 000 mm (2 m)
	<b>Temperaturområde</b> -40°C till +100°C

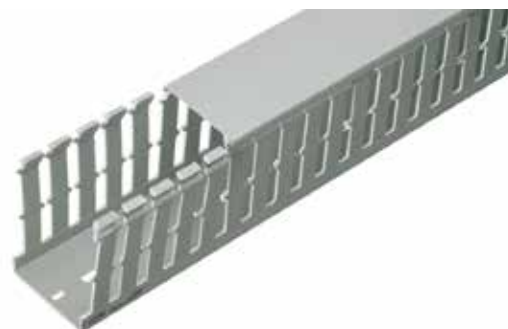
Art nr	Benämning	Bredd (mm)	Höjd (mm)	Förp (m)
<b>Kabelkanaler, oslitsade, halogenfria</b>				
83182787	ECCPH6040 KABELKANAL-HF 60x40 OSLITSAD	60	40	50

Fler storlekar vid förfrågan.



## Kabelkanaler, smal slits, PVC

Med slits 4/6/4



### Fördelar

- Idealisk för förläggning av kablar i mindre dimensioner
- Hög UV-beständighet

- Återvinningsbart material
- Lätt avbrytbara slitsar, brottanvisning

### Design/Utförande

- Till varje tvåmeterslängd ingår lock

### Tekniska data



**Godkännanden**  
UL-recognized, CSA



**Färg**  
Grå, RAL 7030



**Material**  
PVC, självslocknande enligt UL94 V0

**Längd**  
2 000 mm (2 m)



**Temperaturområde**  
-5°C till +60°C

Art nr	Benämning	Bredd (mm)	Höjd (mm)	Förp (m)
<b>Kabelkanaler, smal slits, PVC</b>				
83182680	ECS2525 KABELKANAL 25x25 SLITSAD	25	25	100
83182681	ECS2540 KABELKANAL 25x40 SLITSAD	25	40	100
83182682	ECS2560 KABELKANAL 25x60 SLITSAD	25	60	70
83182683	ECS2580 KABELKANAL 25x80 SLITSAD	25	80	56
83182684	ECS4025 KABELKANAL 40x25 SLITSAD	40	25	80
83182685	ECS4040 KABELKANAL 40x40 SLITSAD	40	40	70
83182686	ECS4060 KABELKANAL 40x60 SLITSAD	40	60	56
83182687	ECS4080 KABELKANAL 40x80 SLITSAD	40	80	40
83182688	ECS40100 KABELKANAL 40x100 SLITSAD	40	100	32
83182689	ECS6040 KABELKANAL 60x40 SLITSAD	60	40	50
83182690	ECS6060 KABELKANAL 60x60 SLITSAD	60	60	32
83182691	ECS6080 KABELKANAL 60x80 SLITSAD	60	80	36
83182692	ECS60100 KABELKANAL 60x100 SLITSAD	60	100	24
83182693	ECS8040 KABELKANAL 80x40 SLITSAD	80	40	40
83182694	ECS8060 KABELKANAL 80x60 SLITSAD	80	60	28
83182695	ECS8080 KABELKANAL 80x80 SLITSAD	80	80	30
83182696	ECS80100 KABELKANAL 80x100 SLITSAD	80	100	24
83182697	ECS10040 KABELKANAL 100x40 SLITSAD	100	40	28
83182698	ECS10060 KABELKANAL 100x60 SLITSAD	100	60	20
83182699	ECS10080 KABELKANAL 100x80 SLITSAD	100	80	24
83182700	ECS100100 KABELKANAL 100x100 SLITSAD	100	100	16
83182701	ECS12040 KABELKANAL 120x40 SLITSAD	120	40	24
83182702	ECS12060 KABELKANAL 120x60 SLITSAD	120	60	20
83182703	ECS12080 KABELKANAL 120x80 SLITSAD	120	80	16





## Kabelkanaler, oslitsade, PVC

Med hela sidor



### Fördelar

- Perfekt kanal för hiss- och maskininstallationer
- Hög UV-beständighet

- Återvinningsbart material
- Kostadseffektiv som matarkanal

### Design/Utförande

- Till varje tvåmeterslängd ingår lock

### Tekniska data



#### Godkännanden

CE, RoHS



#### Färg

Grå, RAL 7030



#### Material

PVC, självslocknande enligt UL94 V0

#### Längd

2 000 mm (2 m)



#### Temperaturområde

-5°C till +60°C

Art nr	Benämning	Bredd (mm)	Höjd (mm)	Förp (m)
<b>Kabelkanaler, oslitsade, PVC</b>				
83182728	ECMC1515G KABELKANAL 15x15 OSLITSAD	15	15	100
83182729	ECCP2540G KABELKANAL 25x40 OSLITSAD	25	40	100
83182730	ECCP2560G KABELKANAL 25x60 OSLITSAD	25	60	70
83182731	ECCP2580G KABELKANAL 25x80 OSLITSAD	25	80	56
83182732	ECCP40100G KABELKANAL 40x100 OSLITSAD	40	100	32
83182733	ECCP4040G KABELKANAL 40x40 OSLITSAD	40	40	70
83182734	ECCP4060G KABELKANAL 40x60 OSLITSAD	40	60	56
83182735	ECCP4080G KABELKANAL 40x80 OSLITSAD	40	80	40
83182736	ECCP60100G KABELKANAL 60x100 OSLITSAD	60	100	24
83182737	ECCP6040G KABELKANAL 60x40 OSLITSAD	60	40	50
83182738	ECCP6060G KABELKANAL 60x60 OSLITSAD	60	60	32
83182739	ECCP6080G KABELKANAL 60x80 OSLITSAD	60	80	36
83182740	ECCP80100G KABELKANAL 80x100 OSLITSAD	80	100	24
83182741	ECCP8040G KABELKANAL 80x40 OSLITSAD	80	40	40
83182742	ECCP8060G KABELKANAL 80x60 OSLITSAD	80	60	28
83182743	ECCP8080G KABELKANAL 80x80 OSLITSAD	80	80	30
83182744	ECCP100100G KABELKANAL 100x100 OSLITSAD	100	100	16
83182745	ECCP10040G KABELKANAL 100x40 OSLITSAD	100	40	28
83182746	ECCP10060G KABELKANAL 100x60 OSLITSAD	100	60	20
83182747	ECCP10080G KABELKANAL 100x80 OSLITSAD	100	80	24
83182748	ECCP12040G KABELKANAL 120x40 OSLITSAD	120	40	24
83182749	ECCP12060G KABELKANAL 120x60 OSLITSAD	120	60	20

Art nr	Benämning	Bredd (mm)	Höjd (mm)	Förp (m)
83182750	ECCP12080G KABELKANAL 120x80 OSLITSAD	120	80	16
83182751	ECCP15060G KABELKANAL 150x60 OSLITSAD	150	60	16
83182752	ECCP20060G KABELKANAL 200x60 OSLITSAD	200	60	16
83182753	ECCP20080G KABELKANAL 200x80 OSLITSAD	200	80	12

Ytterligare standardfärger vid förfrågan: RAL 7035, RAL 7040, RAL 9001.



## Sales Support

# VI HJÆLPER DIG GERNE



## Produktchef

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- Leveringsoplysninger
- Reklamationer
- Fakturaspørgsmål

