

# Copper cabling solutions

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# The ideal solution, whatever your needs

## Our AdvancedLine and CabinetLine product ranges

### AdvancedLine



The AdvancedLine from Weidmüller offers all combinations of cables that are possible with the extensive range of plug connections.

This means flexibility and robustness through the high quality of the used components. The range comprises standard cables and customer-specific versions. Standard cables can be found in the catalogue; customer-specific versions can be freely configured online using the "Galaxy" configuration software. All AdvancedLine cables are particularly suitable for industrial use.

- High-quality cables with very good technical characteristics
- Suitable for demanding IP 20 to IP 67 applications
- Suitable for temperatures from -40 to +70 °C
- High-quality shielding

### CabinetLine



The new CabinetLine range of patch cables from Weidmüller is available in a variety of colours for visually differentiating between various networks.

Additional benefits:

All CabinetLine cables are fitted with Weidmüller TM marking sleeves for clearly labelling cables and ports. CabinetLine is available in the colours grey, blue, red and violet in combination with LSZH sheathing material and transmission power Cat. 6<sub>A</sub>. CabinetLine is also available in the colour green and Cat. 5 with PUR or PVC sheathing material. All variants are fitted with protected clips which facilitate, e.g., pulling through a cable duct.

- For applications in switching cabinets and simple environmental conditions
- Suitable for temperatures from 0 to +60 °C
- Simple shielding

# Configurators for copper cables

## Tailor-made connections

The cable configurator in Weidmüller's online catalogue makes it possible for you to create fully-assembled cables customised specifically to your requirements and specifications.

An RJ45 plug with IP 20 protection is available. The following variants are also available with IP 67 protection:

- Variant 1, metal and plastic
- Variant 4, plastic
- Variant 5, metal
- Variant 14, metal
- M12 connector, straight and angled

You have the choice of configuring a cable which is identical on both ends, or with two different mating profiles, or with one end left open.



When selecting the cable, the following types are available:

- 8-wire system cable, AWG 26/7 in Cat. 5 or Cat. 7, with PVC or PUR sheath
- 8-wire dragline cable, AWG 26/7 in Cat. 5, PUR sheath
- 4-wire PROFINET dragline cable in Cat. 5, PUR sheath
- 4-wire PROFINET system cables in Cat. 5, PVC sheathing
- 4-wire railway cable in Cat. 5, Radox sheathing

The cable length can also be customised:

- From 0.3 m to 9.9 m, in 0.1 m steps
- From 10 m to 100 m, in 1 m steps

The cable configurator can automatically create technical data sheets for all of your customised cable variants.

All of your cable selections can be sent to Weidmüller using the "request list". You will then quickly receive a price proposal for the cables from your local Weidmüller representative.

# Overview of copper cables

## Solutions for every environment

Copper cables should be your first choice for applications in offices and harsh industrial environments.

### Advantages:

- Available in many different variations and lengths
- Robust
- Easy to assemble
- RJ45 connections are the most popular

### Raw cables / Metre goods

#### Industrial installation cables, horizontal cables



...for stationary, permanent installation in cable ducts and cable trays

- Cat. 5 or Cat. 7
- Available for PROFINET as well
- With PUR or PVC sheathing

#### Industrial connecting cables



...for flexible installation in machines and plants in industrial applications and difficult environments

- Cat. 5 or Cat. 7
- Available for PROFINET as well
- With PUR or PVC sheathing

#### Industrial trailing cables



...for applications subjected to constant movement

- Cat. 5
- Available for PROFINET as well
- With PUR sheathing

### Assembled cables

#### Industrial patch cables / CabinetLine



...not only for office applications, but also in switching cabinets for industrial applications

- Cat. 6
- With LSZH sheathing – low smoke and zero halogens
- In straight and crossover versions

#### Industrial system cables



...pre-assembled cables for flexible installation in machines and plants in industrial applications and difficult environments

- Cat. 5 or Cat. 6
- With PUR sheathing

#### Industrial trailing cables



...pre-assembled cable for constant motion, e.g., with draglines

- Cat. 5
- Available for PROFINET as well
- With PUR sheathing

#### System cable for railway applications



...pre-assembled cable for flexible wiring on railway vehicles for both interior and exterior installations.

- In Cat. 5
- Also for PROFINET
- With Radox sheath

## Ordering data for copper cables, metre goods

Type	Cat./Class	Colour	Plug-in connector		Length						
			left	right	100 m	Metre goods	305 m				
<b>Industrial installation cables</b>											
IE-51C4x2xAWG24/1-PUR	Cat. 5	green	-	-	8813160000	8944310000					
IE-51C4x2xAWG24/1-PVC	Cat. 5	green	-	-	8813150000	8953160000					
IE-71C4x2xAWG23/1-PUR	Cat. 7	green	-	-	8813140000	8955350000					
IE-71C4x2xAWG23/1-PVC	Cat. 7	green	-	-	8813130000	8955360000					
IE-C5AS4Vxx	Cat. 5 PROFINET	green	-	-	8899000000	8955950000					
<b>Industrial connecting cables</b>											
IE-5CC4x2xAWG26/7-PUR	Cat. 5	green	-	-	8813200000	8938880000					
IE-5CC4x2xAWG26/7-PVC	Cat. 5	green	-	-	8813190000	8955490000					
IE-7CC4x2xAWG26/7-PUR	Cat. 7	green	-	-	8813180000	8954300000					
IE-7CC4x2xAWG26/7-PVC	Cat. 7	green	-	-	8813170000	8955480000					
IE-C5DS4Vxx	Cat. 5 PROFINET	green	-	-	8898990000	8955560000					
IE-C5DHAGxx	Cat. 5 PROFINET	green	-	-		1172250000					
IE-C7FS8LD-305M	Cat. 7	grey	-	-			1273090000				
IE-C7FS8LB-305M	Cat. 7	blue	-	-			1326540000				
IE-C7FS8LE-305M	Cat. 7	black	-	-			1344690000				
IE-C7FS8LG-305M	Cat. 7	green	-	-			1344680000				
IE-C7FS8LR-305M	Cat. 7	red	-	-			1287910000				
IE-C7FS8LM-305M	Cat. 7	magenta	-	-			1333160000				
IE-C7FS8LY-305M	Cat. 7	yellow	-	-			1344670000				
<b>Industrial trailing cables</b>											
IE-5TC4x2xAWG26/7-PUR	Cat. 5	green	-	-	8813210000	8936390000					
IE-C5ED8UBxx	Cat. 5	blue	-	-	8960670000	8949760000					
IE-C5DD4UGx	Cat. 5 PROFINET	green	-	-	8899010000	8947670000					
IE-C5IT4UGx	Cat. 5 PROFINET	green	-	-		1103010000					

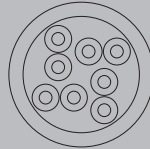
## Raw cables – Installation cable

## Raw cables

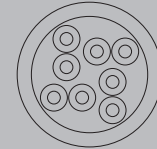
## Installation cable Cat. 5

- In lengths from 100 to 1000 metres

## PUR



## PVC



## Technical data

Product type
Category
Shielding
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation diameter
Min. bending radius, repetitive
Min. bending radius, once only
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to spread of flame
Resistance to oils
Approvals

## Note

Installation cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
4*2*AWG 24/1 - 4*2*0.205 mm <sup>2</sup>
6.7 mm
PUR
green (RAL 6018)
1 mm
10 *diameter
5 *diameter
-40 °C...80 °C
-15 °C...60 °C
-40 °C...80 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60332-1
in accordance with IEC 60811-2-1

Installation cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
4*2*AWG 24/1 - 4*2*0.205 mm <sup>2</sup>
6.3 mm
PVC
green (RAL 6018)
1 mm
10 *diameter
5 *diameter
-40 °C...80 °C
-15 °C...60 °C
-40 °C...80 °C
good
in accordance with IEC 60332-1

## Ordering data

100.0 m
Cut to metre starting at 110.0 m

## Note

Type	Qty.	Order No.
IE-5IC4x2xAWG24/1-PUR	1	8813160000
IE-C5CS8UG-MW		8944310000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

Type	Qty.	Order No.
IE-5IC4x2xAWG24/1-PVC	1	8813150000
IE-C5CS8VG-MW		8953160000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

## Accessories

Sheathing stripper
For UTP and STP data cables
For coaxial and round data cables

## Markers

Wire and cable marker. ø 4.7 - 7.4 mm
Wire and cable marker. ø 5.8 - 7.8 mm
Insertion label. yellow. 12 mm
Insertion label. yellow. 18 mm
Transparent sleeves. 12-mm length
Transparent sleeves. 18-mm length

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

## Note

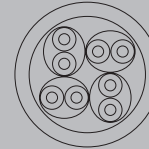
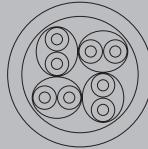
Raw cables

Installation cable Cat. 7

- In lengths from 100 to 1000 metres

PUR

PVC



Technical data

Product type	Installation cable
Category	Cat.7 (ISO/IEC 11801)
Shielding	S/FTP
Cross-section	4*2*AWG 23/1 - 4*2*0.255 mm <sup>2</sup>
Sheath diameter, max.	8.4 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.4 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-15 °C...60 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Approvals	
<b>Note</b>	

Product type	Installation cable
Category	Cat.7 (ISO/IEC 11801)
Shielding	S/FTP
Cross-section	4*2*AWG 23/1 - 4*2*0.255 mm <sup>2</sup>
Sheath diameter, max.	8.4 mm
Material sheath	PVC
Sheathing colour	green (RAL 6018)
Insulation diameter	1.4 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-15 °C...60 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	good
Halogen	
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	
Approvals	
<b>Note</b>	

Product type	Installation cable
Category	Cat.7 (ISO/IEC 11801)
Shielding	S/FTP
Cross-section	4*2*AWG 23/1 - 4*2*0.255 mm <sup>2</sup>
Sheath diameter, max.	8.4 mm
Material sheath	PVC
Sheathing colour	green (RAL 6018)
Insulation diameter	1.4 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-15 °C...60 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	good
Halogen	
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	
Approvals	
<b>Note</b>	

Ordering data

100.0 m
Cut to metre starting at 110.0 m
<b>Note</b>

Type	Qty.	Order No.
IE-7IC4x2xAWG23/1-PUR	1	8813140000
IE-C7BS8UG-MW		8955350000
Order example, for cut cable: 150 x „article number“ = 150 m on drum		

Type	Qty.	Order No.
IE-7IC4x2xAWG23/1-PVC	1	8813130000
IE-C7BS8VG-MW		8955360000
Order example, for cut cable: 150 x „article number“ = 150 m on drum		

Accessories

<b>Sheathing stripper</b>	For UTP and STP data cables For coaxial and round data cables
<b>Markers</b>	Wire and cable marker. ø 4.7 - 7.4 mm Wire and cable marker. ø 5.8 - 7.8 mm Insertion label, yellow. 12 mm Insertion label, yellow. 18 mm Transparent sleeves. 12-mm length Transparent sleeves. 18-mm length

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

<b>Note</b>
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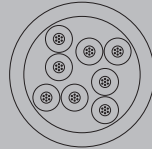
## Raw cables – Connection cable

## Raw cables

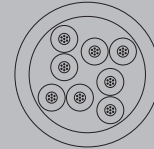
## Connecting cable Cat. 5

- In lengths from 100 to 1000 metres

## PUR



## PVC



## Technical data

Product type
Category
Shielding
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation diameter
Min. bending radius, repetitive
Min. bending radius, once only
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to spread of flame
Resistance to oils
Standard, assembly
Approvals

## Note

System cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
6.1 mm
PUR
green (RAL 6018)
1 mm
10 *diameter
5 *diameter
-40 °C...80 °C
-10 °C...60 °C
-40 °C...80 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60332-1
in accordance with IEC 60811-2-1
UL-Style 20963 (80°C/30V)

System cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
5.8 mm
PVC
green (RAL 6018)
1 mm
10 *diameter
5 *diameter
-40 °C...80 °C
-15 °C...60 °C
-40 °C...80 °C
good

in accordance with IEC 60332-1

## Ordering data

100.0 m
Cut to metre starting at 110.0 m

## Note

Type	Qty.	Order No.
IE-5CC4x2xAWG26/7-PUR	1	8813200000
IE-C5ES8UG-MW		8938880000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

Type	Qty.	Order No.
IE-5CC4x2xAWG26/7-PVC	1	8813190000
IE-C5ES8VG-MW		8955490000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

## Accessories

Sheathing stripper
For UTP and STP data cables
For coaxial and round data cables

Markers
Wire and cable marker. ø 4.7 - 7.4 mm
Wire and cable marker. ø 5.8 - 7.8 mm
Insertion label. yellow. 12 mm
Insertion label. yellow. 18 mm
Transparent sleeves. 12-mm length
Transparent sleeves. 18-mm length

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

## Note



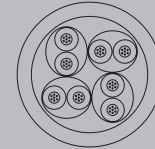
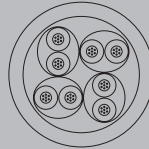
Raw cables

Connecting cable Cat. 7

- In lengths from 100 to 1000 metres

PUR

PVC



Technical data

Product type	System cable
Category	Cat.7 (ISO/IEC 11801)
Shielding	S/FTP
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Sheath diameter, max.	6.6 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.03 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-15 °C...60 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Standard, assembly	UL-Style 20963 (80°C/30V)
Approvals	

Product type	System cable
Category	Cat.7 (ISO/IEC 11801)
Shielding	S/FTP
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PVC
Sheathing colour	green (RAL 6018)
Insulation diameter	0.98 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-15 °C...60 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	good
Halogen	
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	
Standard, assembly	UL-Style 2879 (80°C/30V)
Approvals	

Product type	System cable
Category	Cat.7 (ISO/IEC 11801)
Shielding	S/FTP
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PVC
Sheathing colour	green (RAL 6018)
Insulation diameter	0.98 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-15 °C...60 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	good
Halogen	
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	
Standard, assembly	UL-Style 2879 (80°C/30V)
Approvals	

Note

Ordering data

100.0 m  
Cut to metre starting at 110.0 m

Note

Type	Qty.	Order No.
IE-7CC4x2xAWG26/7-PUR	1	8813180000
IE-C7ES8UG-MW		8954300000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

Type	Qty.	Order No.
IE-7CC4x2xAWG26/7-PVC	1	8813170000
IE-C7ES8VG-MW		8955480000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

Accessories

Sheathing stripper

For UTP and STP data cables  
For coaxial and round data cables

Markers

Wire and cable marker. ø 4.7 - 7.4 mm  
Wire and cable marker. ø 5.8 - 7.8 mm  
Insertion label. yellow. 12 mm  
Insertion label. yellow. 18 mm  
Transparent sleeves. 12-mm length  
Transparent sleeves. 18-mm length

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Note

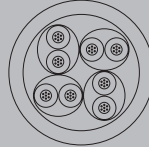
## Raw cables – Connection cable

## Raw cables

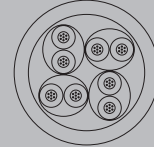
## Connecting cable Cat. 7

- 305 m / 1,000 ft

## LSZH grey



## LSZH blue



## Technical data

Product type
Category
Shielding
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation diameter
Min. bending radius, repetitive
Min. bending radius, once only
Ambient temperature (operational)
Installation temperature
Halogen
Resistance to spread of flame
Resistance to oils
Approvals

## Note

System cable
Cat.7 (ISO/IEC 11801)
S/FTP
4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
5.9 mm
LSZH
light grey (RAL 7035)
1.04 mm
50 mm
25 mm
-20 °C...60 °C
0 °C...50 °C
No
in accordance with IEC 60332-1

## CULUS

System cable
Cat.7 (ISO/IEC 11801)
S/FTP
4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
5.9 mm
LSZH
blue (RAL 5015)
1.04 mm
50 mm
25 mm
-20 °C...60 °C
0 °C...50 °C
No
in accordance with IEC 60332-1

## CULUS

## Ordering data

305 m / 1000 ft

## Note

Type	Qty.	Order No.
IE-C7FS8LD-305M	1	1273090000

Type	Qty.	Order No.
IE-C7FS8LB-305M	1	1326540000

## Accessories

## Sheathing stripper

For UTP and STP data cables  
For coaxial and round data cables

## Markers

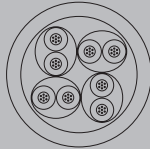
Wire and cable marker. ø 4.7 - 7.4 mm  
Wire and cable marker. ø 5.8 - 7.8 mm  
Insertion label, yellow. 12 mm  
Insertion label, yellow. 18 mm  
Transparent sleeves. 12-mm length  
Transparent sleeves. 18-mm length

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

## Note

LSZH black



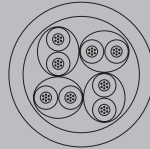
System cable  
 Cat.7 (ISO/IEC 11801)  
 S/FTP  
 4\*2\*AWG 27/7 - 4\*2\*0.1 mm<sup>2</sup>  
 5.9 mm  
 LSZH  
 Black  
 1.04 mm  
 50 mm  
 25 mm  
 -20 °C...60 °C  
 0 °C...50 °C  
 No  
 in accordance with IEC 60332-1

CULUS

Type	Qty.	Order No.
IE-C7FS8LE-305M	1	1344690000

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

LSZH green



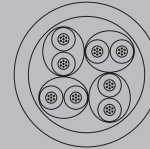
System cable  
 Cat.7 (ISO/IEC 11801)  
 S/FTP  
 4\*2\*AWG 27/7 - 4\*2\*0.1 mm<sup>2</sup>  
 5.9 mm  
 LSZH  
 Green  
 1.04 mm  
 50 mm  
 25 mm  
 -20 °C...60 °C  
 0 °C...50 °C  
 No  
 in accordance with IEC 60332-1

CULUS

Type	Qty.	Order No.
IE-C7FS8LG-305M	1	1344680000

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

LSZH red



System cable  
 Cat.7 (ISO/IEC 11801)  
 S/FTP  
 4\*2\*AWG 27/7 - 4\*2\*0.1 mm<sup>2</sup>  
 5.9 mm  
 LSZH  
 Red  
 1.04 mm  
 50 mm  
 25 mm  
 -20 °C...60 °C  
 0 °C...50 °C  
 No  
 in accordance with IEC 60332-1

CULUS

Type	Qty.	Order No.
IE-C7FS8LR-305M	1	1287910000

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

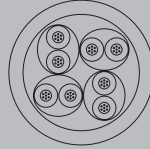
## Raw cables – Connection cable

## Raw cables

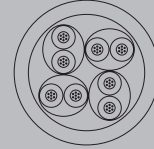
## Connecting cable Cat. 7

- 305 m / 1,000 ft

## LSZH magenta



## LSZH yellow



## Technical data

Product type
Category
Shielding
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation diameter
Min. bending radius, repetitive
Min. bending radius, once only
Ambient temperature (operational)
Installation temperature
Halogen
Resistance to spread of flame
Resistance to oils
Approvals

## Note

System cable
Cat.7 (ISO/IEC 11801)
S/FTP
4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
5.9 mm
LSZH
Magenta
1.04 mm
50 mm
25 mm
-20 °C...60 °C
0 °C...50 °C
No
in accordance with IEC 60332-1

## CULUS

System cable
Cat.7 (ISO/IEC 11801)
S/FTP
4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
5.9 mm
LSZH
Yellow
1.04 mm
50 mm
25 mm
-20 °C...60 °C
0 °C...50 °C
No
in accordance with IEC 60332-1

## CULUS

## Ordering data

305 m / 1000 ft

## Note

Type	Qty.	Order No.
IE-C7FS8LM-305M	1	1333160000

Type	Qty.	Order No.
IE-C7FS8LY-305M	1	1344670000

## Accessories

## Sheathing stripper

For UTP and STP data cables  
For coaxial and round data cables

## Markers

Insertion label, yellow, 12 mm  
Insertion label, yellow, 18 mm  
Transparent sleeves, 12-mm length  
Transparent sleeves, 18-mm length  
Wire and cable marker, ø 4.7 - 7.4 mm  
Wire and cable marker, ø 5.8 - 7.8 mm

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000

TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000

TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001

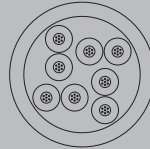
## Note

Raw cables

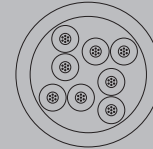
Dragline cable Cat. 5

- In lengths from 100 to 1000 metres

PUR green



PUR blue



Technical data

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Sheath diameter, max.	6.8 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	0.95 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	4 *diameter
Bending cycles	5 Mio
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Standard, assembly	UL-Style 20963 (80°C/30V)
Approvals	

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Sheath diameter, max.	6.8 mm
Material sheath	PUR
Sheathing colour	blue (RAL 5015)
Insulation diameter	0.95 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	4 *diameter
Bending cycles	5 Mio
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Standard, assembly	UL-Style 20963 (80°C/30V)
Approvals	

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Sheath diameter, max.	6.8 mm
Material sheath	PUR
Sheathing colour	blue (RAL 5015)
Insulation diameter	0.95 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	4 *diameter
Bending cycles	5 Mio
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Standard, assembly	UL-Style 20963 (80°C/30V)
Approvals	

Note

Ordering data

100.0 m
Cut to metre starting at 110.0 m

Note

Type	Qty.	Order No.
IE-5TC4x2xAWG26/7-PUR	1	8813210000
IE-C5ED8UG-MW		8936390000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

Type	Qty.	Order No.
IE-C5ED8UB-100M	1	8960670000
IE-C5ED8UB-MW		8949760000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

Accessories

Sheathing stripper	For UTP and STP data cables For coaxial and round data cables
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Markers	Wire and cable marker. ø 4.7 - 7.4 mm Wire and cable marker. ø 5.8 - 7.8 mm Insertion label. yellow. 12 mm Insertion label. yellow. 18 mm Transparent sleeves. 12-mm length Transparent sleeves. 18-mm length
---------	--

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Note

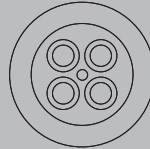
## Raw cables – PROFINET cable

## Raw cables

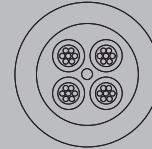
## PROFINET cable

- In lengths from 100 to 1000 metres

## Installation cable type A, PVC



## Connection cable type B, PVC



## Technical data

Product type
Category
Shielding
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation diameter
Min. bending radius, repetitive
Min. bending radius, once only
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Resistance to spread of flame
Standard, assembly
Approvals

## Note

Installation cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
4*AWG 22/1 - 0.33 mm <sup>2</sup>
6.7 mm
PVC
green (RAL 6018)
1.5 mm
7.5 *diameter
3.5 *diameter
-40 °C...75 °C
-20 °C...60 °C
-40 °C...75 °C
good
in accordance with IEC 60332-1 / UL 1685
UL-Style 21694

System cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
4*AWG 22/7 - 0.36 mm <sup>2</sup>
6.7 mm
PVC
green (RAL 6018)
1.5 mm
7.5 *diameter
3.5 *diameter
-40 °C...70 °C
-20 °C...60 °C
-40 °C...70 °C
good
in accordance with IEC 60332-1 / UL 1685
UL-Style 21694

## Ordering data

100.0 m
Cut to metre starting at 110.0 m

## Note

Type	Qty.	Order No.
IE-C5AS4V1000	1	8899000000
IE-C5AS4VG-MW		8955950000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

Type	Qty.	Order No.
IE-C5DS4V1000	1	8898990000
IE-C5DS4VG-MW		8955560000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

## Accessories

Sheathing stripper
For UTP and STP data cables
For coaxial and round data cables

Markers
Wire and cable marker. ø 4.7 - 7.4 mm
Wire and cable marker. ø 5.8 - 7.8 mm
Insertion label. yellow. 12 mm
Insertion label. yellow. 18 mm
Transparent sleeves. 12-mm length
Transparent sleeves. 18-mm length

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

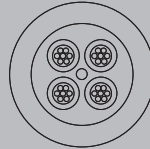
Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

## Note

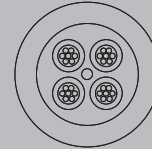
**Raw cables**  
**PROFINET cable**

- In lengths from 100 to 1000 metres

**Dragline cable type C, PUR**



**Torsion cable type C, PUR**



**Technical data**

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	5 *diameter
Bending cycles	3 Mio
Torsion cycles	
Torsion resistance	1 mill.
Ambient temperature (operational)	180 °/m
Installation temperature	-40 °C...80 °C
Storage temperature	-40 °C...60 °C
Abrasion resistance	-50 °C...70 °C
Halogen	very good
Resistance to spread of flame	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with IEC 60332-1
Standard, assembly	in accordance with IEC 60811-2-1
Approvals	
<b>Note</b>	

Product type	Torsion cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	S/UTP
Cross-section	4* AWG 22/19 - 0.38 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Bending cycles	
Torsion cycles	1 mill.
Torsion resistance	180 °/m
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-40 °C...80 °C
Storage temperature	-40 °C...80 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Standard, assembly	UL Style 21161
Approvals	
<b>Note</b>	

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	5 *diameter
Bending cycles	3 Mio
Torsion cycles	
Torsion resistance	1 mill.
Ambient temperature (operational)	180 °/m
Installation temperature	-40 °C...80 °C
Storage temperature	-40 °C...60 °C
Abrasion resistance	-50 °C...70 °C
Halogen	very good
Resistance to spread of flame	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with IEC 60332-1
Standard, assembly	in accordance with IEC 60811-2-1
Approvals	UL Style 21161
<b>Note</b>	

**Ordering data**

<b>Cat. 5 PROFINET. PUR</b>	
	100.0 m
	Cut to metre starting at 110.0 m
<b>Note</b>	

Type	Qty.	Order No.
IE-C5DD4U1000	1	8899010000
IE-C5DD4UG-MW		8947670000
Order example, for cut cable: 150 x „article number“ = 150 m on drum		

Type	Qty.	Order No.
IE-C5IT4UG-MW		1103010000
Order example, for cut cable: 150 x „article number“ = 150 m on drum		

**Accessories**

<b>Sheathing stripper</b>	
	For UTP and STP data cables
	For coaxial and round data cables
<b>Markers</b>	
	Wire and cable marker. ø 4.7 - 7.4 mm
	Wire and cable marker. ø 5.8 - 7.8 mm
	Insertion label. yellow. 12 mm
	Insertion label. yellow. 18 mm
	Transparent sleeves. 12-mm length
	Transparent sleeves. 18-mm length
<b>Note</b>	

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000
<b>Note</b>		

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS VO	160	1689470001
VT SF 6/21 MC NE WS VO	160	1730560001
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000
<b>Note</b>		

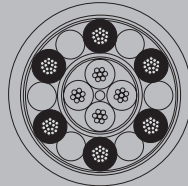
## Raw cables – Hybrid cable

## Raw cables

## Hybrid cable

- In lengths from 100 to 1000 metres

## PVC



## Technical data

Product type
Category
Shielding
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation diameter
Min. bending radius, repetitive
Min. bending radius, once only
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to spread of flame
Resistance to oils
Standard, assembly
Approvals

## Note

Connecting cables
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
4*AWG 22/7 - 0.36 mm <sup>2</sup> , 6*0.5 mm <sup>2</sup>
9.5 mm
PVC
green (RAL 6018)
1.5 mm / 1.75 mm
7.5 *diameter
3.5 *diameter
-40 °C...70 °C
-20 °C...60 °C
-40 °C...70 °C
good
Yes
in accordance with IEC 60332-1 / UL 1685
limited

## Ordering data

Cut to metre starting at 110.0 m

## Note

Type	Qty.	Order No.
IE-C5DHAG-MW		1172250000

Order example, for cut cable: 150 x „article number“ = 150 m on drum

## Accessories

## Sheathing stripper

For UTP and STP data cables  
For coaxial and round data cables

## Markers

Wire and cable marker. ø 4.7 - 7.4 mm  
Wire and cable marker. ø 5.8 - 7.8 mm  
Insertion label. yellow. 12 mm  
Insertion label. yellow. 18 mm  
Transparent sleeves. 12-mm length  
Transparent sleeves. 18-mm length

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS V0	160	1689470001
VT SF 6/21 MC NE WS V0	160	1730560001
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

## Note



## Assembled cables

## Patch cable CabinetLine Cat. 6 straight

## LSZH grey



RJ45			RJ45
1	white (orange)	1	RJ45
2	orange	2	
3	white (green)	3	
4	blue	4	
5	white (blue)	5	
6	green	6	
7	white (brown)	7	
8	brown	8	

## Technical data

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Grey
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS

## Note

## Ordering data

0.2 m	IE-C6FP8LD0002M40M40-D	1	1165940002
0.5 m	IE-C6FP8LD0005M40M40-D	1	1165940005
1.0 m	IE-C6FP8LD0010M40M40-D	1	1165940010
1.5 m	IE-C6FP8LD0015M40M40-D	1	1165940015
2.0 m	IE-C6FP8LD0020M40M40-D	1	1165940020
3.0 m	IE-C6FP8LD0030M40M40-D	1	1165940030
5.0 m	IE-C6FP8LD0050M40M40-D	1	1165940050
7.5 m	IE-C6FP8LD0075M40M40-D	1	1165940075
10.0 m	IE-C6FP8LD0100M40M40-D	1	1165940100
15.0 m	IE-C6FP8LD0150M40M40-D	1	1165940150
20.0 m	IE-C6FP8LD0200M40M40-D	1	1165940200
25.0 m	IE-C6FP8LD0250M40M40-D	1	1165940250

## Note

Type	Qty.	Order No.
IE-C6FP8LD0002M40M40-D	1	1165940002
IE-C6FP8LD0005M40M40-D	1	1165940005
IE-C6FP8LD0010M40M40-D	1	1165940010
IE-C6FP8LD0015M40M40-D	1	1165940015
IE-C6FP8LD0020M40M40-D	1	1165940020
IE-C6FP8LD0030M40M40-D	1	1165940030
IE-C6FP8LD0050M40M40-D	1	1165940050
IE-C6FP8LD0075M40M40-D	1	1165940075
IE-C6FP8LD0100M40M40-D	1	1165940100
IE-C6FP8LD0150M40M40-D	1	1165940150
IE-C6FP8LD0200M40M40-D	1	1165940200
IE-C6FP8LD0250M40M40-D	1	1165940250

Other lengths available on request

## Accessories

## Sheathing stripper

For UTP and STP data cables  
For coaxial and round data cables

## Markers

Insertion label, yellow, 12 mm  
Insertion label, yellow, 18 mm

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687

## Note

## Assembled cables - Patch cable

## Assembled cables

## Patch cable CabinetLine Cat. 6 straight

## LSZH blue



RJ45				RJ45
1	white (orange)	1		
2	orange	2		
3	white (green)	3		
4	blue	4		
5	white (blue)	5		
6	green	6		
7	white (brown)	7		
8	brown	8		

## LSZH black



RJ45				RJ45
1	white (orange)	1		
2	orange	2		
3	white (green)	3		
4	blue	4		
5	white (blue)	5		
6	green	6		
7	white (brown)	7		
8	brown	8		

## Technical data

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Blue
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
Note	

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Black
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
Note	

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Black
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
Note	

## Ordering data

	0.2 m
	0.5 m
	1.0 m
	1.5 m
	2.0 m
	3.0 m
	5.0 m
	10.0 m
	15.0 m
	20.0 m
	25.0 m
Note	

Type	Qty.	Order No.
IE-C6FP8LB0002M40M40-B	1	1165900002
IE-C6FP8LB0005M40M40-B	1	1165900005
IE-C6FP8LB0010M40M40-B	1	1165900010
IE-C6FP8LB0015M40M40-B	1	1165900015
IE-C6FP8LB0020M40M40-B	1	1165900020
IE-C6FP8LB0030M40M40-B	1	1165900030
IE-C6FP8LB0050M40M40-B	1	1165900050
IE-C6FP8LB0100M40M40-B	1	1165900100
IE-C6FP8LB0150M40M40-B	1	1165900150
IE-C6FP8LB0200M40M40-B	1	1165900200
IE-C6FP8LB0250M40M40-B	1	1165900250
Note		

Type	Qty.	Order No.
IE-C6FP8LE0002M40M40-E	1	1251610002
IE-C6FP8LE0005M40M40-E	1	1251610005
IE-C6FP8LE0010M40M40-E	1	1251610010
IE-C6FP8LE0015M40M40-E	1	1251610015
IE-C6FP8LE0020M40M40-E	1	1251610020
IE-C6FP8LE0030M40M40-E	1	1251610030
IE-C6FP8LE0050M40M40-E	1	1251610050
IE-C6FP8LE0100M40M40-E	1	1251610100
IE-C6FP8LE0150M40M40-E	1	1251610150
IE-C6FP8LE0200M40M40-E	1	1251610200
IE-C6FP8LE0250M40M40-E	1	1251610250
Note		

## Accessories

<b>Sheathing stripper</b>	
	For UTP and STP data cables
	For coaxial and round data cables
<b>Markers</b>	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
Note	

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
Note		

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
Note		

**Assembled cables**  
**Patch cable CabinetLine Cat. 6 straight**

**LSZH green**



**LSZH red**



RJ45			RJ45
1	white (orange)	1	RJ45
2	orange	2	
3	white (green)	3	
4	blue	4	
5	white (blue)	5	
6	green	6	
7	white (brown)	7	
8	brown	8	

RJ45			RJ45
1	white (orange)	1	RJ45
2	orange	2	
3	white (green)	3	
4	blue	4	
5	white (blue)	5	
6	green	6	
7	white (brown)	7	
8	brown	8	

**Technical data**

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Green
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
<b>Note</b>	

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Red
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
<b>Note</b>	

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Red
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
<b>Note</b>	

**Ordering data**

	0.2 m
	0.5 m
	1.0 m
	1.5 m
	2.0 m
	3.0 m
	5.0 m
	10.0 m
	15.0 m
	20.0 m
	25.0 m
<b>Note</b>	

Type	Qty.	Order No.
IE-C6FP8LG0002M40M40-G	1	1251590002
IE-C6FP8LG0005M40M40-G	1	1251590005
IE-C6FP8LG0010M40M40-G	1	1251590010
IE-C6FP8LG0015M40M40-G	1	1251590015
IE-C6FP8LG0020M40M40-G	1	1251590020
IE-C6FP8LG0030M40M40-G	1	1251590030
IE-C6FP8LG0050M40M40-G	1	1251590050
IE-C6FP8LG0100M40M40-G	1	1251590100
IE-C6FP8LG0150M40M40-G	1	1251590150
IE-C6FP8LG0200M40M40-G	1	1251590200
IE-C6FP8LG0250M40M40-G	1	1251590250
<b>Note</b>		

Type	Qty.	Order No.
IE-C6FP8LR0002M40M40-R	1	1166030002
IE-C6FP8LR0005M40M40-R	1	1166030005
IE-C6FP8LR0010M40M40-R	1	1166030010
IE-C6FP8LR0015M40M40-R	1	1166030015
IE-C6FP8LR0020M40M40-R	1	1166030020
IE-C6FP8LR0030M40M40-R	1	1166030030
IE-C6FP8LR0050M40M40-R	1	1166030050
IE-C6FP8LR0100M40M40-R	1	1166030100
IE-C6FP8LR0150M40M40-R	1	1166030150
IE-C6FP8LR0200M40M40-R	1	1166030200
IE-C6FP8LR0250M40M40-R	1	1166030250
<b>Note</b>		

**Accessories**

<b>Sheathing stripper</b>	
	For UTP and STP data cables
	For coaxial and round data cables
<b>Markers</b>	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
<b>Note</b>	

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
<b>Note</b>		

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
<b>Note</b>		

## Assembled cables - Patch cable

## Assembled cables

## Patch cable CabinetLine Cat. 6 straight

## LSZH magenta



RJ45				RJ45
1	white (orange)	1		
2	orange	2		
3	white (green)	3		
4	blue	4		
5	white (blue)	5		
6	green	6		
7	white (brown)	7		
8	brown	8		

## LSZH yellow



RJ45				RJ45
1	white (orange)	1		
2	orange	2		
3	white (green)	3		
4	blue	4		
5	white (blue)	5		
6	green	6		
7	white (brown)	7		
8	brown	8		

## Technical data

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Magenta
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
<b>Note</b>	

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Yellow
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
<b>Note</b>	

Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Yellow
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
<b>Note</b>	

## Ordering data

	0.2 m
	0.5 m
	1.0 m
	1.5 m
	2.0 m
	3.0 m
	5.0 m
	10.0 m
	15.0 m
	20.0 m
	25.0 m
<b>Note</b>	

Type	Qty.	Order No.
IE-C6FP8LM0002M40M40-M	1	1201270002
IE-C6FP8LM0005M40M40-M	1	1201270005
IE-C6FP8LM0010M40M40-M	1	1201270010
IE-C6FP8LM0015M40M40-M	1	1201270015
IE-C6FP8LM0020M40M40-M	1	1201270020
IE-C6FP8LM0030M40M40-M	1	1201270030
IE-C6FP8LM0050M40M40-M	1	1201270050
IE-C6FP8LM0100M40M40-M	1	1201270100
IE-C6FP8LM0150M40M40-M	1	1201270150
IE-C6FP8LM0200M40M40-M	1	1201270200
<b>Note</b>		

Type	Qty.	Order No.
IE-C6FP8LY0002M40M40-Y	1	1251580002
IE-C6FP8LY0005M40M40-Y	1	1251580005
IE-C6FP8LY0010M40M40-Y	1	1251580010
IE-C6FP8LY0015M40M40-Y	1	1251580015
IE-C6FP8LY0020M40M40-Y	1	1251580020
IE-C6FP8LY0030M40M40-Y	1	1251580030
IE-C6FP8LY0050M40M40-Y	1	1251580050
IE-C6FP8LY0100M40M40-Y	1	1251580100
IE-C6FP8LY0150M40M40-Y	1	1251580150
IE-C6FP8LY0200M40M40-Y	1	1251580200
IE-C6FP8LY0250M40M40-Y	1	1251580250
<b>Note</b>		

## Accessories

<b>Sheathing stripper</b>	
	For UTP and STP data cables
	For coaxial and round data cables
<b>Markers</b>	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
<b>Note</b>	

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
<b>Note</b>		

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
<b>Note</b>		

**Assembled cables**  
**Patch cable CabinetLine Cat. 6**  
**angled**

**LSZH grey 270°**

**LSZH grey 90°**



RJ45			RJ45
1	white (orange)	1	RJ45
2	orange	2	
3	white (green)	3	
4	blue	4	
5	white (blue)	5	
6	green	6	
7	white (brown)	7	
8	brown	8	

RJ45			RJ45
1	white (orange)	1	RJ45
2	orange	2	
3	white (green)	3	
4	blue	4	
5	white (blue)	5	
6	green	6	
7	white (brown)	7	
8	brown	8	

**Technical data**

Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20, Angled 270° / RJ45 IP 20
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Grey
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
<b>Note</b>	

Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20, Angled 90° / RJ45 IP 20
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Grey
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
<b>Note</b>	

Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Product type	Patch cable
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	RJ45 IP 20, Angled 90° / RJ45 IP 20
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	5.9 mm
Material sheath	LSZH
Colour	Grey
Insulation diameter	1.04 mm
Min. bending radius, repetitive	50 mm
Min. bending radius, once only	25 mm
Ambient temperature (operational)	-20 °C...60 °C
Installation temperature	0 °C...50 °C
Storage temperature	-20 °C...60 °C
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Approvals	CULUS
<b>Note</b>	

**Ordering data**

	0.5 m
	1.0 m
	1.2 m
	1.5 m
	2.0 m
	3.0 m
	5.0 m
	10.0 m
<b>Note</b>	

Type	Qty.	Order No.
IE-C6FP8LD0005M40W40-D	1	1233160005
IE-C6FP8LD0010M40W40-D	1	1233160010
IE-C6FP8LD0012M40W40-D	1	1233160012
IE-C6FP8LD0015M40W40-D	1	1233160015
IE-C6FP8LD0020M40W40-D	1	1233160020
IE-C6FP8LD0030M40W40-D	1	1233160030
IE-C6FP8LD0050M40W40-D	1	1233160050
IE-C6FP8LD0100M40W40-D	1	1233160100
<b>Note</b>		

Type	Qty.	Order No.
IE-C6FP8LD0005M40V40-D	1	1248280005
IE-C6FP8LD0010M40V40-D	1	1248280010
IE-C6FP8LD0012M40V40-D	1	1248280012
IE-C6FP8LD0015M40V40-D	1	1248280015
IE-C6FP8LD0020M40V40-D	1	1248280020
IE-C6FP8LD0030M40V40-D	1	1248280030
IE-C6FP8LD0050M40V40-D	1	1248280050
IE-C6FP8LD0100M40V40-D	1	1248280100
<b>Note</b>		

**Accessories**

<b>Sheathing stripper</b>	
	For UTP and STP data cables
	For coaxial and round data cables
<b>Markers</b>	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
<b>Note</b>	

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
<b>Note</b>		

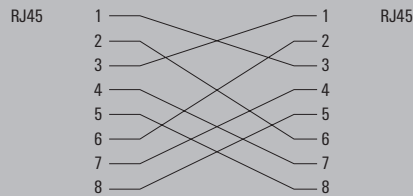
Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
<b>Note</b>		

## Assembled cables - Patch cable

## Assembled cables

## Patch cable CabinetLine Cat. 6 crossover

## LSZH grey



## Technical data

Product type
Category
Shielding
Version connector left / Version connector right
Connector standard
PoE / PoE+
Cross-section
Sheath diameter, max.
Material sheath
Colour
Insulation diameter
Min. bending radius, repetitive
Min. bending radius, once only
Ambient temperature (operational)
Installation temperature
Storage temperature
Halogen
Resistance to spread of flame
Approvals

Patch cable, crossover
Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
S/FTP
RJ45 IP 20 / RJ45 IP 20
IEC 60603-7-51
conforming to IEEE 802.3at
4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
5.9 mm
LSZH
Grey
1.04 mm
50 mm
25 mm
-20 °C...60 °C
0 °C...50 °C
-20 °C...60 °C
halogen-free, according to IEC 60754-2
in accordance with IEC 60332-1 / UL 1581 FT2
CULUS

## Note

## Ordering data

0.3 m
0.4 m
0.5 m
1.0 m
2.0 m
3.0 m
5.0 m
10.0 m
15.0 m
20.0 m

Type	Qty.	Order No.
IE-C6FP8LD0003X40X40-Y	1	1312160003
IE-C6FP8LD0004X40X40-Y	1	1312160004
IE-C6FP8LD0005X40X40-Y	1	1312160005
IE-C6FP8LD0010X40X40-Y	1	1312160010
IE-C6FP8LD0020X40X40-Y	1	1312160020
IE-C6FP8LD0030X40X40-Y	1	1312160030
IE-C6FP8LD0050X40X40-Y	1	1312160050
IE-C6FP8LD0100X40X40-Y	1	1312160100
IE-C6FP8LD0150X40X40-Y	1	1312160150
IE-C6FP8LD0200X40X40-Y	1	1312160200

## Note

## Accessories

## Sheathing stripper

For UTP and STP data cables  
For coaxial and round data cables

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000

## Markers

Insertion label, yellow, 12 mm  
Insertion label, yellow, 18 mm

TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687

## Note

Assembled cables

Patch cable CabinetLine Cat. 5 straight

PVC green



PUR green



RJ45			RJ45
1	white (orange)	1	RJ45
2	orange	2	
3	white (green)	3	
4	blue	4	
5	white (blue)	5	
6	green	6	
7	white (brown)	7	
8	brown	8	

RJ45			RJ45
1	white (orange)	1	RJ45
2	orange	2	
3	white (green)	3	
4	blue	4	
5	white (blue)	5	
6	green	6	
7	white (brown)	7	
8	brown	8	

Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801)
Shielding	SF/UTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Sheath diameter, max.	5.8 mm
Material sheath	PVC
Sheathing colour	green (RAL 6018)
Insulation diameter	0.98 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...75 °C
Abrasion resistance	good
Halogen	
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	
Approvals	
<b>Note</b>	

Product type	System cable
Category	Cat.5 (ISO/IEC 11801)
Shielding	SF/UTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Sheath diameter, max.	6 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	0.98 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...75 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	EN 50305
Approvals	
<b>Note</b>	

Product type	System cable
Category	Cat.5 (ISO/IEC 11801)
Shielding	SF/UTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Sheath diameter, max.	6 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	0.98 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...75 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	EN 50305
Approvals	
<b>Note</b>	

Ordering data

Length	Type	Qty.	Order No.
0.5 m	IE-C5ES8VG0005M40M40-G	1	1166020005
1.0 m	IE-C5ES8VG0010M40M40-G	1	1166020010
1.5 m	IE-C5ES8VG0015M40M40-G	1	1166020015
2.0 m	IE-C5ES8VG0020M40M40-G	1	1166020020
3.0 m	IE-C5ES8VG0030M40M40-G	1	1166020030
5.0 m	IE-C5ES8VG0050M40M40-G	1	1166020050
10.0 m	IE-C5ES8VG0100M40M40-G	1	1166020100
15.0 m	IE-C5ES8VG0150M40M40-G	1	1166020150
20.0 m	IE-C5ES8VG0200M40M40-G	1	1166020200
<b>Note</b>			

Type	Qty.	Order No.
IE-C5ES8VG0005M40M40-G	1	1166020005
IE-C5ES8VG0010M40M40-G	1	1166020010
IE-C5ES8VG0015M40M40-G	1	1166020015
IE-C5ES8VG0020M40M40-G	1	1166020020
IE-C5ES8VG0030M40M40-G	1	1166020030
IE-C5ES8VG0050M40M40-G	1	1166020050
IE-C5ES8VG0100M40M40-G	1	1166020100
IE-C5ES8VG0150M40M40-G	1	1166020150
IE-C5ES8VG0200M40M40-G	1	1166020200
<b>Note</b>		

Type	Qty.	Order No.
IE-C5ES8UG0005M40M40-G	1	1166000005
IE-C5ES8UG0010M40M40-G	1	1166000010
IE-C5ES8UG0015M40M40-G	1	1166000015
IE-C5ES8UG0020M40M40-G	1	1166000020
IE-C5ES8UG0030M40M40-G	1	1166000030
IE-C5ES8UG0050M40M40-G	1	1166000050
IE-C5ES8UG0100M40M40-G	1	1166000100
IE-C5ES8UG0150M40M40-G	1	1166000150
IE-C5ES8UG0200M40M40-G	1	1166000200
<b>Note</b>		

Accessories

<b>Sheathing stripper</b>	
	For UTP and STP data cables
	For coaxial and round data cables
<b>Markers</b>	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
<b>Note</b>	

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
<b>Note</b>		

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
<b>Note</b>		

## Assembled cables - Patch cable

## Assembled cables

## Patch cable CabinetLine Cat. 6 straight

## PUR green



RJ45			RJ45
1	white (orange)	1	RJ45
2	orange	2	
3	white (green)	3	
4	blue	4	
5	white (blue)	5	
6	green	6	
7	white (brown)	7	
8	brown	8	

## Technical data

Product type	System cable
Category	Cat.6 <sub>n</sub> / Class E <sub>n</sub> (ISO/IEC 11801 2010)
Shielding	
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Connector standard	IEC 60603-7-51
PoE / PoE+	conforming to IEEE 802.3at
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>
Sheath diameter, max.	6.4 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.02 mm
Min. bending radius, repetitive	10 *diameter
Min. bending radius, once only	5 *diameter
Ambient temperature (operational)	-40 °C...85 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Resistance to oils	in accordance with IEC 60811-2-1
Approvals	

## Note

## Ordering data

	0.3 m
	0.5 m
	1.0 m
	1.5 m
	2.0 m
	3.0 m
	5.0 m
	10.0 m
	15.0 m
	20.0 m

## Note

## Accessories

## Sheathing stripper

For UTP and STP data cables  
For coaxial and round data cables

## Markers

Wire and cable marker. ø 4.7 - 7.4 mm  
Wire and cable marker. ø 5.8 - 7.8 mm  
Insertion label, yellow. 12 mm  
Insertion label, yellow. 18 mm  
Transparent sleeves. 12-mm length  
Transparent sleeves. 18-mm length

## Note

Type	Qty.	Order No.
IE-C6FS8UG0003A40A40-G	1	894 1350003
IE-C6FS8UG0005A40A40-G	1	894 1350005
IE-C6FS8UG0010A40A40-G	1	894 1350010
IE-C6FS8UG0015A40A40-G	1	894 1350015
IE-C6FS8UG0020A40A40-G	1	894 1350020
IE-C6FS8UG0030A40A40-G	1	894 1350030
IE-C6FS8UG0050A40A40-G	1	894 1350050
IE-C6FS8UG0100A40A40-G	1	894 1350100
IE-C6FS8UG0150A40A40-G	1	894 1350150
IE-C6FS8UG0200A40A40-G	1	894 1350200

Other lengths available on request

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
VT SF 5/21 MC NE WS V0	160	1689470001
VT SF 6/21 MC NE WS V0	160	1730560001
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000



**Assembled cables**

Patch cable PROFINET dragline cable (type C)

Cat. 5

IP 20

**RJ45 IP 20**



**RJ45 IP 20 incl. protective cap**




RJ45		RJ45
1	yellow	1
2	orange	2
3	white	3
6	blue	6

RJ45		RJ45
1	yellow	1
2	orange	2
3	white	3
6	blue	6

**Technical data**

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	RJ45 IP 20 / RJ45 IP 20
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Insulation diameter	1.5 mm
Min. bending radius, repetitive / Min. bending radius, once only	7.5 *diameter / 5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s <sup>2</sup>
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Approvals	CULUS
Note	

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	RJ45 IP 20 with protective cap / RJ45 IP 20 with protective cap
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Insulation diameter	1.5 mm
Min. bending radius, repetitive / Min. bending radius, once only	7.5 *diameter / 5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s <sup>2</sup>
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Approvals	
Note	

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	RJ45 IP 20 with protective cap / RJ45 IP 20 with protective cap
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Insulation diameter	1.5 mm
Min. bending radius, repetitive / Min. bending radius, once only	7.5 *diameter / 5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s <sup>2</sup>
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Approvals	
Note	

**Ordering data**

	0.5 m
	1.0 m
	2.0 m
	3.0 m
	5.0 m
	10.0 m
	15.0 m
	20.0 m
Note	

Type	Qty.	Order No.
IE-C5DD4UG0005A20A20-E	1	1173030005
IE-C5DD4UG0010A20A20-E	1	1173030010
IE-C5DD4UG0020A20A20-E	1	1173030020
IE-C5DD4UG0030A20A20-E	1	1173030030
IE-C5DD4UG0050A20A20-E	1	1173030050
IE-C5DD4UG0100A20A20-E	1	1173030100
IE-C5DD4UG0150A20A20-E	1	1173030150
IE-C5DD4UG0200A20A20-E	1	1173030200
Note		

Type	Qty.	Order No.
IE-C5DD4UG0005A2DA2D-E	1	1376510005
IE-C5DD4UG0010A2DA2D-E	1	1376510010
IE-C5DD4UG0020A2DA2D-E	1	1376510020
IE-C5DD4UG0030A2DA2D-E	1	1376510030
IE-C5DD4UG0050A2DA2D-E	1	1376510050
IE-C5DD4UG0100A2DA2D-E	1	1376510100
IE-C5DD4UG0150A2DA2D-E	1	1376510150
IE-C5DD4UG0200A2DA2D-E	1	1376510200
Note		

**Accessories**

<b>Sheathing stripper</b>	
	For UTP and STP data cables
	For coaxial and round data cables
<b>Markers</b>	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
Note	

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
Note		

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
Note		



## Assembled cables

## Patch cable PROFINET dragline cable (type C)

Cat. 5

IP 67

## V14 RJ45 IP 67



RJ45		RJ45
1	yellow	1
2	orange	2
3	white	3
6	blue	6

## Technical data

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Connector standard	IEC 61076-3-117 Var. 14, IEC 60603-7-51
Shielding	SF/UTP
Version connector left / Version connector right	RJ45 IP 67 PushPull V14 metal / RJ45 IP 67 PushPull V14 metal
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Insulation diameter	1.5 mm
Min. bending radius, repetitive / Min. bending radius, once only	7.5 *diameter / 5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s <sup>2</sup>
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Approvals	

## Note

## Ordering data

	Type	Qty.	Order No.
1.0 m	IE-C5DD4UG0010A2EA2E-X	1	1119730010
2.0 m	IE-C5DD4UG0020A2EA2E-X	1	1119730020
3.0 m	IE-C5DD4UG0030A2EA2E-X	1	1119730030
5.0 m	IE-C5DD4UG0050A2EA2E-X	1	1119730050
10.0 m	IE-C5DD4UG0100A2EA2E-X	1	1119730100
15.0 m	IE-C5DD4UG0150A2EA2E-X	1	1119730150
20.0 m	IE-C5DD4UG0200A2EA2E-X	1	1119730200

## Note

## Accessories

Sheathing stripper		Type	Qty.	Order No.
	For UTP and STP data cables	AM 12	1	9030060000
	For coaxial and round data cables	IE-CST	1	9204350000
Markers				
	Insertion label, yellow, 12 mm	TMH 12 MC NE GE	320	1718411687
	Insertion label, yellow, 18 mm	TMH 18 MC NE GE	320	1718431687

## Note

## Assembled cables - PROFINET cable

## Assembled cables

Patch cable PROFINET (Type C) Cat. 5, over-moulded

IP 67

## V14 RJ45 IP 67

Dragline cable



RJ45		RJ45
1	yellow	1
2	orange	2
3	white	3
6	blue	6

## V14 RJ45 IP 67

Twisted cable



RJ45		RJ45
1	yellow	1
2	orange	2
3	white	3
6	blue	6

## Technical data

Product type  
Category  
Connector standard  
Shielding  
Version connector left / Version connector right

Cross-section  
Sheath diameter, max.  
Material sheath  
Insulation diameter  
Min. bending radius, repetitive / Min. bending radius, once only  
Bending cycles / Pulling force  
Torsion cycles / Torsion resistance  
Speed / Acceleration  
Ambient temperature (operational)  
Installation temperature  
Storage temperature  
Abrasion resistance  
Halogen  
Resistance to spread of flame  
Resistance to oils  
Approvals

## Note

Dragline cable  
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)  
IEC 61076-3-107  
SF/UTP  
RJ45 IP 67 PushPull moulded V14 metal / RJ45 IP 67 PushPull moulded V14 metal  
4\*AWG 22/7 - 0.36 mm<sup>2</sup>  
6.7 mm  
PUR  
1.5 mm  
7.5 \*diameter / 5 \*diameter  
3 Mio / ≤ 150 N  
  
180 m/min / 4 m/s<sup>2</sup>  
-40 °C...70 °C  
-20 °C...60 °C  
-50 °C...70 °C  
very good  
halogen-free, according to IEC 60754-2  
in accordance with IEC 60332-1  
in accordance with IEC 60811-2-1

Torsion cable  
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)  
IEC 61076-3-107  
S/UTP  
RJ45 IP 67 PushPull moulded V14 metal / RJ45 IP 67 PushPull moulded V14 metal  
4\* AWG 22/19 - 0.38 mm<sup>2</sup>  
6.7 mm  
PUR  
1.5 mm  
10 \*diameter / 5 \*diameter  
  
1 mill. / 180 °/m  
-40 °C...80 °C  
-40 °C...80 °C  
-40 °C...80 °C  
very good  
halogen-free, according to IEC 60754-2  
in accordance with IEC 60332-1  
in accordance with IEC 60811-2-1

## Ordering data

	1.0 m
	2.0 m
	3.0 m
	5.0 m
	10.0 m

## Note

Type	Qty.	Order No.
IE-C5DD4UG0010B2EB2E-X	1	1307610010
IE-C5DD4UG0020B2EB2E-X	1	1307610020
IE-C5DD4UG0030B2EB2E-X	1	1307610030
IE-C5DD4UG0050B2EB2E-X	1	1307610050
IE-C5DD4UG0100B2EB2E-X	1	1307610100

Type	Qty.	Order No.
IE-C5IT4UG0010B2EB2E-X	1	1312690010
IE-C5IT4UG0020B2EB2E-X	1	1312690020
IE-C5IT4UG0030B2EB2E-X	1	1312690030
IE-C5IT4UG0050B2EB2E-X	1	1312690050
IE-C5IT4UG0100B2EB2E-X	1	1312690100

## Accessories

## Sheathing stripper

For UTP and STP data cables  
For coaxial and round data cables

## Markers

Insertion label, yellow, 12 mm  
Insertion label, yellow, 18 mm

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

## Note

**Assembled cables**  
**Patch cable PushPull Power**

**Power IP 67, PVC**



**Power IP 67, PUR**



**Technical data**

Connector standard
Version connector left / Version connector right
Ambient temperature (operational)
Cross-section
Wire connection cross section AWG, max.
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation
No. of wires
Min. bending radius, once only
Rated voltage
Current-carrying capacity at 50 °C
Approvals

in accordance with PROFINET specification
PushPull Power / PushPull Power
-40 °C...70 °C
5*1,5 mm <sup>2</sup>
AWG 16
8.1 mm
PVC
grey (similar to RAL 7001)
PVC
5
4 *diameter
24 V
16 A
EAC

in accordance with PROFINET specification
PushPull Power / PushPull Power
-40 °C...80 °C
5*1,5 mm <sup>2</sup>
AWG 16
9 mm
PUR
grey (similar to RAL 7001)
TPE
5
5 *diameter
24 V
16 A
EAC

**Note**

**Note**

**Note**

**Ordering data**

Type	Qty.	Order No.
1.0 m	1	1350120010
3.0 m	1	1350120030
5.0 m	1	1350120050
10.0 m	1	1350120100
15.0 m	1	1350120150
20.0 m	1	1350120200

Type	Qty.	Order No.
IE-CSPS5VS0010VAPVAP-X	1	1350120010
IE-CSPS5VS0030VAPVAP-X	1	1350120030
IE-CSPS5VS0050VAPVAP-X	1	1350120050
IE-CSPS5VS0100VAPVAP-X	1	1350120100
IE-CSPS5VS0150VAPVAP-X	1	1350120150
IE-CSPS5VS0200VAPVAP-X	1	1350120200

Type	Qty.	Order No.
IE-CSPD5US0050VAPVAP-X	1	1403680050
IE-CSPD5US0100VAPVAP-X	1	1403680100
IE-CSPD5US0150VAPVAP-X	1	1403680150

**Note**

Other lengths available on request

**Note**

**Accessories**

<b>Sheathing stripper</b>
For UTP and STP data cables
For coaxial and round data cables
<b>Markers</b>
Insertion label, yellow, 12 mm
Insertion label, yellow, 18 mm

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

**Note**

**Note**

**Note**



**Assembled cable**  
**Dragline cable M12**

- Cat. 5
- PUR
- D-coded
- PROFINET type C

**M12 - open**

Plug / -



**M12 - RJ45**

Plug / plug



--	--

	M12
yellow	1
white	2
orange	3
blue	4

RJ45	M12	
1	yellow	1
3	white	2
2	orange	3
6	blue	4

**Technical data**

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / Open
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s <sup>2</sup>
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Approvals	CULUS
<b>Note</b>	

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / RJ45 IP 20
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s <sup>2</sup>
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Approvals	CULUS
<b>Note</b>	

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / RJ45 IP 20
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s <sup>2</sup>
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Approvals	CULUS
<b>Note</b>	

**Ordering data**

	1.0 m
	1.5 m
	3.0 m
	5.0 m
	10.0 m
<b>Note</b>	

Type	Qty.	Order No.
IE-C5DD4UG0015MCSXXX-X	1	1025940015
IE-C5DD4UG0030MCSXXX-X	1	1025940030
IE-C5DD4UG0050MCSXXX-X	1	1025940050
IE-C5DD4UG0100MCSXXX-X	1	1025940100

Type	Qty.	Order No.
IE-C5DD4UG0010MCSA20-E	1	1044470010
IE-C5DD4UG0015MCSA20-E	1	1044470015
IE-C5DD4UG0030MCSA20-E	1	1044470030
IE-C5DD4UG0050MCSA20-E	1	1044470050
IE-C5DD4UG0100MCSA20-E	1	1044470100

**Accessories**

<b>Sheathing stripper</b>	
	For UTP and STP data cables
	For coaxial and round data cables
<b>Markers</b>	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
<b>Mounting tool</b>	
	Tool set
	Tool set with torque function
	Screwty-M12-DM
	Screwty-M12
<b>Note</b>	

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
Screwty Set	1	1910000000
Screwty Set -DM	1	1920000000
Screwty-M12-DM	1	1900001000
Screwty-M12	1	1900000000

Type	Qty.	Order No.
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
Screwty Set	1	1910000000
Screwty Set -DM	1	1920000000
Screwty-M12-DM	1	1900001000
Screwty-M12	1	1900000000

## Assembled cables – PROFINET cable M12

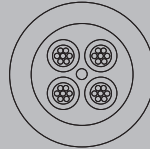
## Assembled cables

## M12 dragline cable, angled

- Cat. 5
- PUR
- D-coded
- PROFINET type C

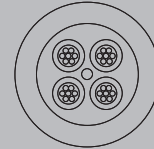
## M12 / M12

## Plug / plug



## M12 / M12

## Plug / plug



## Technical data

Product type
Category
Shielding
Version connector left / Version connector right
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation diameter, min. / max.
Min. bending radius, repetitive
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to oils
Fire safety for railway vehicles

## Note

Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 IP 67 straight male / M12 IP 67 straight male
4*AWG 22/7 - 0.36 mm <sup>2</sup>
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 *diameter
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60811-2-1

Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 IP 67 angled male / M12 IP 67 angled male
4*AWG 22/7 - 0.36 mm <sup>2</sup>
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 *diameter
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60811-2-1

## Ordering data

Cat. 5 PROFINET. PUR. M12 straight-M12 angled	Type	Qty.	Order No.
1.5 m	IE-C5DD4UG0015MCSMCA-E	1	1059770015
3.0 m	IE-C5DD4UG0030MCSMCA-E	1	1059770030
5.0 m	IE-C5DD4UG0050MCSMCA-E	1	1059770050
10.0 m	IE-C5DD4UG0100MCSMCA-E	1	1059770100

Cat. 5 PROFINET. PUR. M12 angled-M12 angled	Type	Qty.	Order No.
1.5 m			
3.0 m			
5.0 m			
10.0 m			

Cat. 5. PUR. M12 angled-open	Type	Qty.	Order No.
1.5 m			
3.0 m			
5.0 m			
10.0 m			

## Note

## Accessories

Markers	Type	Qty.	Order No.
Insertion label, yellow, 12 mm	TM-H 12 MC NE GE	320	1718411687
Insertion label, yellow, 18 mm	TM-H 18 MC NE GE	320	1718431687
Transparent sleeves, 12-mm length	TM 4/12 HF/HB	500	1719840000
Transparent sleeves, 18-mm length	TM 4/18 HF/HB	500	1719850000

## Note

Type	Qty.	Order No.
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	Qty.	Order No.
IE-C5DD4UG0015MCAMCA-E	1	1059890015
IE-C5DD4UG0030MCAMCA-E	1	1059890030
IE-C5DD4UG0050MCAMCA-E	1	1059890050
IE-C5DD4UG0100MCAMCA-E	1	1059890100





Assembled cables – PROFINET cable M12

Assembled cables

System cable M12 flange

- Cat. 5
- PUR
- D-coded
- PROFINET type B

M12 flange - M12 male

Plug / socket



M12 flange - RJ45

Plug / socket



M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	360° shield contact
Version connector left / Version connector right	M12 flange / M12 - male / straight
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	15 x cable diameter
Min. bending radius, once only	5 x cable diameter
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	360° shield contact
Version connector left / Version connector right	M12 flange / RJ45 IP 20
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	15 x cable diameter
Min. bending radius, once only	5 x cable diameter
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	360° shield contact
Version connector left / Version connector right	M12 flange / RJ45 IP 20
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	15 x cable diameter
Min. bending radius, once only	5 x cable diameter
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C

Note

Ordering data

	0.5 m
	1.0 m
	1.5 m
	2.0 m
	5.0 m

Type	Qty.	Order No.
IE-C5DS4UG0005MBSMCS-E	1	1244130005
IE-C5DS4UG0010MBSMCS-E	1	1244130010
IE-C5DS4UG0015MBSMCS-E	1	1244130015
IE-C5DS4UG0020MBSMCS-E	1	1244130020
IE-C5DS4UG0050MBSMCS-E	1	1244130050

Type	Qty.	Order No.
IE-C5DS4UG0005MBSA20-E	1	1234750005
IE-C5DS4UG0010MBSA20-E	1	1234750010
IE-C5DS4UG0015MBSA20-E	1	1234750015
IE-C5DS4UG0020MBSA20-E	1	1234750020
IE-C5DS4UG0050MBSA20-E	1	1234750050

Note

Accessories

Markers	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

Mounting tool	
	Tool set
	Tool set with torque function
	Screwty-M12-DM
	Screwty-M12

Type	Qty.	Order No.
Screwty Set	1	1910000000
Screwty Set -DM	1	1920000000
Screwty-M12-DM	1	1900001000
Screwty- M12	1	1900000000

Type	Qty.	Order No.
Screwty Set	1	1910000000
Screwty Set -DM	1	1920000000
Screwty-M12-DM	1	1900001000
Screwty- M12	1	1900000000

Note

**Assembled cables****System cable M12 flange**

- Cat. 5
- PUR
- D-coded
- PROFINET type B

**M12 flange - open**

Socket / -



M12

yellow	1
white	2
orange	3
blue	4

**Technical data**

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	360° shield contact
Version connector left / Version connector right	M12 flange / Open
Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation diameter	1.5 mm
Min. bending radius, repetitive	15 x cable diameter
Min. bending radius, once only	5 x cable diameter
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Approvals	

**Note****Ordering data**

	0.5 m
	1.0 m
	1.5 m
	2.0 m
	5.0 m

**Note**

Type	Qty.	Order No.
IE-C5DS4UG0005MBSXXX-E	1	1234770005
IE-C5DS4UG0010MBSXXX-E	1	1234770010
IE-C5DS4UG0015MBSXXX-E	1	1234770015
IE-C5DS4UG0020MBSXXX-E	1	1234770020
IE-C5DS4UG0050MBSXXX-E	1	1234770050

**Accessories****Markers**

Insertion label, yellow, 12 mm
Insertion label, yellow, 18 mm

**Mounting tool**

Tool set
Tool set with torque function
Screwty-M12-DM
Screwty-M12

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
Screwty Set	1	1910000000
Screwty Set -DM	1	1920000000
Screwty-M12-DM	1	1900001000
Screwty- M12	1	1900000000

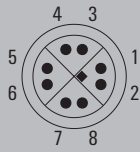
**Note**

## Assembled cables – PROFINET cable M12

## Assembled cable

## Connecting cable M12

- Cat. 6
- PVC
- X-type
- PROFINET type B



## M12 - M12

Plug / plug



M12			M12
1	white, orange		1
2	orange		2
3	white, green		3
4	green		4
5	white, brown		5
6	brown		6
7	white, blue		7
8	blue		8

## M12 - open

Plug / -



		M12
White, Orange		1
Orange		2
White, Green		3
Green		4
White, Brown		5
Brown		6
White, Blue		7
Blue		8

## Technical data

Product type	Connecting cables
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	M12 X-type IP 67 straight male / M12 X-type IP 67 straight male
Cross-section	4*2*AWG 23/7
Sheath diameter, max.	8.8 mm
Material sheath	PVC
Sheathing colour	green (RAL 6018)
Insulation diameter	1.58 mm
Min. bending radius, repetitive	8 *diameter
Min. bending radius, once only	4 *diameter
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-40 °C...80 °C
Storage temperature	-40 °C...80 °C
Halogen	
Resistance to spread of flame	in accordance with IEC 60332-1-2
Standard, assembly	UL-Style 2461
Approvals	

## Note

## Ordering data

	0.5 m
	1.5 m
	3.0 m
	5.0 m
	10.0 m

## Note

## Accessories

Markers	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm

## Note

Product type	Connecting cables
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	M12 X-type IP 67 straight male / M12 X-type IP 67 straight male
Cross-section	4*2*AWG 23/7
Sheath diameter, max.	8.8 mm
Material sheath	PVC
Sheathing colour	green (RAL 6018)
Insulation diameter	1.58 mm
Min. bending radius, repetitive	8 *diameter
Min. bending radius, once only	4 *diameter
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-40 °C...80 °C
Storage temperature	-40 °C...80 °C
Halogen	
Resistance to spread of flame	in accordance with IEC 60332-1-2
Standard, assembly	UL-Style 2461
Approvals	

Type	Qty.	Order No.
IE-C6KS8VGG0005XCSXCS-E	1	1398070005
IE-C6KS8VGG0015XCSXCS-E	1	1398070015
IE-C6KS8VGG0030XCSXCS-E	1	1398070030
IE-C6KS8VGG0050XCSXCS-E	1	1398070050
IE-C6KS8VGG0100XCSXCS-E	1	1398070100

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

## Note

Product type	Connecting cables
Category	Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)
Shielding	S/FTP
Version connector left / Version connector right	M12 X-type IP 67 straight male / Open
Cross-section	4*2*AWG 23/7
Sheath diameter, max.	8.8 mm
Material sheath	PVC
Sheathing colour	green (RAL 6018)
Insulation diameter	1.58 mm
Min. bending radius, repetitive	8 *diameter
Min. bending radius, once only	4 *diameter
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...80 °C
Installation temperature	-40 °C...80 °C
Storage temperature	-40 °C...80 °C
Halogen	
Resistance to spread of flame	in accordance with IEC 60332-1-2
Standard, assembly	UL-Style 2461
Approvals	

Type	Qty.	Order No.
IE-C6KS8VGG0005XCSXXX-E	1	1449470005
IE-C6KS8VGG0015XCSXXX-E	1	1449470015
IE-C6KS8VGG0050XCSXXX-E	1	1449470050
IE-C6KS8VGG0100XCSXXX-E	1	1449470100

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

## Note

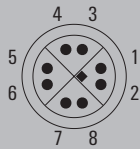
**Assembled cables**

**M12 connecting cables**

- Cat. 6
- PUR
- X-type

**M12 - RJ45**

Plug / plug



RJ45		M12
1	White, Orange	1
2	Orange	2
3	White, Green	3
4	Blue	8
5	White, Blue	7
6	Green	4
7	White, Brown	5
8	Brown	6

**Technical data**

Product type
Category
Shielding
Version connector left / Version connector right
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation diameter
Min. bending radius, repetitive
Min. bending radius, once only
Pulling force
Ambient temperature (operational)
Installation temperature
Storage temperature
Halogen
Resistance to spread of flame
Standard, assembly
Approvals

System cable
Cat.6 <sub>n</sub> / Class E <sub>n</sub> (ISO/IEC 11801 2010)
S/FTP
RJ45 IP 20 / M12 X-type IP 67 straight male
4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
6.7 mm
PUR
green (RAL 6018)
0.98 mm
10 *diameter
5 *diameter
-40 °C...80 °C
-20 °C...60 °C
-40 °C...80 °C
halogen-free, according to IEC 60754-1
in accordance with IEC 60332-1-2
UL Style 20963

**Note**

**Ordering data**

1.0 m
2.0 m
3.0 m
5.0 m
10.0 m
12.0 m

Type	Qty.	Order No.
IE-C6ES8UG0010A40XCS-E	1	1457580010
IE-C6ES8UG0020A40XCS-E	1	1457580020
IE-C6ES8UG0030A40XCS-E	1	1457580030
IE-C6ES8UG0050A40XCS-E	1	1457580050
IE-C6ES8UG0100A40XCS-E	1	1457580100
IE-C6ES8UG0120A40XCS-E	1	1457580120

**Note**

**Accessories**

Markers	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

**Note**



**Assembled cable  
Railway cable M12**

- Cat. 5
- Radox
- D-coded

**M12 - M12**

Plug / plug



**M12 - M12**

Plug / socket



M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

**Technical data**

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / M12 IP 67 straight male
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / M12 IP 67 straight socket
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / M12 IP 67 straight socket
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2

Approvals

**Note**

**Ordering data**

	1.5 m
	3.0 m
	5.0 m
	10.0 m

**Note**

Type	Qty.	Order No.
IE-C5DB4RE0015MCSMCS-E	1	1010850015
IE-C5DB4RE0030MCSMCS-E	1	1010850030
IE-C5DB4RE0050MCSMCS-E	1	1010850050
IE-C5DB4RE0100MCSMCS-E	1	1010850100

Type	Qty.	Order No.
IE-C5DB4RE0015MSSMCS-E	1	1059340015
IE-C5DB4RE0030MSSMCS-E	1	1059340030
IE-C5DB4RE0050MSSMCS-E	1	1059340050
IE-C5DB4RE0100MSSMCS-E	1	1059340100

**Accessories**

Markers	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

**Note**

## Assembled cables - Railway cable M12

Assembled cable  
Railway cable M12

- Cat. 5
- Radox
- D-coded

## M12 - open

Plug / -



	M12
yellow	1
white	2
orange	3
blue	4

## Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / Open
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2
Approvals	CULUS
Note	

## Ordering data

	1.5 m	Type	Qty.	Order No.
	3.0 m	IE-C5DB4RE0015MCSXXX-X	1	1010840015
	5.0 m	IE-C5DB4RE0030MCSXXX-X	1	1010840030
	10.0 m	IE-C5DB4RE0050MCSXXX-X	1	1010840050
Note		IE-C5DB4RE0100MCSXXX-X	1	1010840100

## Accessories

<b>Sheathing stripper</b>		<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
	For UTP and STP data cables	AM 12	1	9030060000
	For coaxial and round data cables	IE-CST	1	9204350000
<b>Markers</b>				
	Insertion label, yellow, 12 mm	TMH 12 MC NE GE	320	1718411687
	Insertion label, yellow, 18 mm	TMH 18 MC NE GE	320	1718431687

Note



## Assembled cables

### Railway cable M12

- Cat. 5
- Radox
- D-coded

## M12 / M12

Plug / plug



M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

## M12 / M12

Plug / plug



M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

## Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / M12 IP 67 angled male
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter, min. / max.	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 angled male / M12 IP 67 angled male
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter, min. / max.	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 angled male / M12 IP 67 angled male
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter, min. / max.	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2

## Note

## Ordering data

	1.5 m
	3.0 m
	5.0 m
	10.0 m

## Note

Type	Qty.	Order No.
IE-C5DB4RE0015MCSMCA-E	1	1059940015
IE-C5DB4RE0030MCSMCA-E	1	1059940030
IE-C5DB4RE0050MCSMCA-E	1	1059940050
IE-C5DB4RE0100MCSMCA-E	1	1059940100

Type	Qty.	Order No.
IE-C5DB4RE0015MCAMCA-E	1	1059970015
IE-C5DB4RE0030MCAMCA-E	1	1059970030
IE-C5DB4RE0050MCAMCA-E	1	1059970050
IE-C5DB4RE0100MCAMCA-E	1	1059970100

## Accessories

### Markers

Insertion label, yellow, 12 mm
Insertion label, yellow, 18 mm
Transparent sleeves, 12-mm length
Transparent sleeves, 18-mm length

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

## Note

## Assembled cables - Railway cable M12

## Assembled cables

## Railway cable M12

- Cat. 5
- Radox
- D-coded

## M12 / open

Plug / -



	M12
yellow	1
white	2
orange	3
blue	4

## Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 angled male / Open
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter, min. / max.	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2

Note

## Ordering data

	1.5 m	Type	Qty.	Order No.
	3.0 m	IE-C5DB4RE0015MCAXXX-X	1	1059900015
	5.0 m	IE-C5DB4RE0030MCAXXX-X	1	1059900030
	10.0 m	IE-C5DB4RE0050MCAXXX-X	1	1059900050
		IE-C5DB4RE0100MCAXXX-X	1	1059900100
Note				

## Accessories

Markers	Type	Qty.	Order No.
Insertion label, yellow, 12 mm	TM-I 12 MC NE GE	320	1718411687
Insertion label, yellow, 18 mm	TM-I 18 MC NE GE	320	1718431687
Transparent sleeves, 12-mm length	TM 4/12 HF/HB	500	1719840000
Transparent sleeves, 18-mm length	TM 4/18 HF/HB	500	1719850000

Note

Note

## Assembled cables

## Railway cable RW M12

- Cat. 5
- Radox
- D-coded
- RW (reduced wire): suitable for RJ45 connectors

## M12 open

Plug / -



## M12 - RJ45

Plug / plug



	M12
yellow	1
white	2
orange	3
blue	4

RJ45		M12
1	yellow	1
3	white	2
2	orange	3
6	blue	4

## Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / Open
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter	1.58 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2
Approvals	
Note	

Product type	System cable
Category	Cat.5 (ISO/IEC 11801)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / RJ45 IP 20 tool-free
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter	1.58 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2
Approvals	
Note	

Product type	System cable
Category	Cat.5 (ISO/IEC 11801)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / RJ45 IP 20 tool-free
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
Sheath diameter, max.	7 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation diameter	1.58 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2
Approvals	
Note	

## Ordering data

	4.0 m
	5.0 m
	10.0 m
Note	

Type	Qty.	Order No.
IE-C5DB4WE0050MCSXXX-E	1	1269740050
IE-C5DB4WE0100MCSXXX-E	1	1269740100

Type	Qty.	Order No.
IE-C5DB4WE0040MCSA20-E	1	1220310040

## Accessories

<b>Sheathing stripper</b>	
	For UTP and STP data cables
	For coaxial and round data cables
<b>Markers</b>	
	Transparent sleeves. 12-mm length
	Transparent sleeves. 18-mm length

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	Qty.	Order No.
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Note	
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Note	
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Note	
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## Assembled cables – Railway cable RJ45

## Assembled cables

## Railway cable RW RJ45 - RJ45

- Cat. 5
- Radox
- RW (reduced wire)

## RJ45 - RJ45

## Plug / plug



M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

## Technical data

Product type
Category
Shielding
Version connector left / Version connector right
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation diameter
Min. bending radius, repetitive
Ambient temperature (operational)
Storage temperature
Abrasion resistance
Halogen
Resistance to oils
Fire safety for railway vehicles

## Approvals

## Note

System cable
Cat.5 (ISO/IEC 11801)
SF/UTP
RJ45 IP 20 tool-free / RJ45 IP 20 tool-free
2*2*AWG 22/7 - 2*2*0.36 mm <sup>2</sup>
7 mm
Radox GKW S
Black
1.58 mm
6 *diameter
-40 °C...90 °C
-40 °C...90 °C
very good
halogen-free, according to IEC 60754-2
in accordance with EN 50306-3
According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2

## Ordering data

1.0 m
2.0 m
3.0 m
5.0 m
10.0 m
20.0 m

## Note

Type	Qty.	Order No.
IE-C5DB4WE0010A20A20-E	1	1421710010
IE-C5DB4WE0020A20A20-E	1	1421710020
IE-C5DB4WE0030A20A20-E	1	1421710030
IE-C5DB4WE0050A20A20-E	1	1421710050
IE-C5DB4WE0100A20A20-E	1	1421710100
IE-C5DB4WE0200A20A20-E	1	1421710200

## Accessories

Markers	
	Transparent sleeves. 12-mm length
	Transparent sleeves. 18-mm length

Type	Qty.	Order No.
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

## Note

**Assembled cables**  
**USB cable**

**USB A - USB A**



**USB A - USB Micro**



**Technical data**

Sheathing colour
Material sheath
Ambient temperature (operational)
<b>Note</b>

Black
PVC
-15 °C...80 °C

PVC
-15 °C...80 °C

**Ordering data**

	0.5 m
	1.0 m
	1.5 m
	1.8 m
	3.0 m
<b>Note</b>	

Type	Qty.	Order No.
IE-USB-A-A-0.5M	1	1993550005
IE-USB-A-A-1.0M	1	1993550010
IE-USB-A-A-1.5M	1	1993550015
IE-USB-A-A-1.8M	1	1993550018
IE-USB-A-A-3.0M	1	1993550030

Type	Qty.	Order No.
IE-USB-A-MICRO-1.8M	1	1487980000

**Accessories**

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Type	Qty.	Order No.

Type	Qty.	Order No.

<b>Note</b>
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