

**Industrial Ethernet  
IE-C5DD4UG0200A2DA2D-E**

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Assembled IE cables, PROFINET, Cat. 5, PUR, green, Incl. protective cap

**General ordering data**

Type	IE-C5DD4UG0200A2DA2D-E
Order No.	<a href="#">1376510200</a>
Version	Dragline cable, PROFINET, RJ45 IP 20 with protective cap, RJ45 IP 20 with protective cap, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 15 m
GTIN (EAN)	4050118180022
Qty.	1 pc(s).

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## Technical data

### Dimensions and weights

Length	15 m	Length (inches)	0.591 inch
Net weight	1,293.8 g	Insulation cross-section	1.5 mm

### Temperatures

Operating temperature, max.	70 °C	Operating temperature, min.	-40 °C
Storage temperature, max.	70 °C	Storage temperature, min.	-50 °C
Operating temperature	-40 °C...70 °C	Storage temperature	-50 °C...70 °C
Installation temperature	-20 °C...60 °C		

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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### Electrical properties

Insulation strength	500,000 Ω
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### Standards

Connector standard	IEC 60603-7-51	Standard, insulating material	DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3)
Standard, wire material	DIN EN 13602 Cu-ETP-A	Standard, shielding material	DIN EN 13602 Cu-ETP-A..B

### Cable structure

Wire material	Stranded tin-plated copper wire	Standard designations	2YH(ST)C11Y 2x2x0,75/1,5-100 LI VZN GN FRNC
Strands	7	Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Insulation	PE	Insulation cross-section	1.5 mm
Wire core insulation thickness	0.38 mm	No. of wires	4
Arrangement of wire cores	Star-quad	Colour sequence or wires - wire pairs	white, yellow, blue, orange
Diameter of inner sheathing	3.9 mm	Filler	As central element
Shielding	SF/UTP	Complete shielding	Aluminium foil, Shielding braid made from copper wiring
Shielding braid thickness	0.13 mm	Overlap of shielding braid	85 %
Material sheath	PUR	Sheath diameter, min.	6.3 mm
Sheath diameter, max.	6.7 mm	Sheathing material thickness	0.9 mm
Sheathing colour	green (RAL 6018)		

### Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Operating voltage (UL rating)	600 V undefined
Test voltage: wire-wire-shield	2000 V <sub>eff</sub> , 50 Hz, 1 min	Characteristic impedance	100 ± 15 Ω at 1-100 MHz
Loop resistance	120 Ω/km	Deviation	40 ns/100m
Resistance differential	3 %	Transfer impedance	20 mΩ/m at 10 MHz
Insulation strength	500,000 Ω	Capacity at 1 kHz	52 nF/km
Signal propagation time	5.3 ns/m	Speed	180 m/min

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**Technical data**
**Mechanical and material properties of cable**

Bending cycles	3 Mio	Min. bending radius, once only	5 x cable diameter
Min. bending radius, repetitive	7.5 x cable diameter	Pulling force	≤ 150 N
Speed	180 m/min	Acceleration	4 m/s <sup>2</sup>
Abrasion resistance	very good	Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1	UV-resistant	Yes
Silicone-free	Yes	Halogen	halogen-free, according to IEC 60754-2
Fire propagation	No		

**plug**

Connector left	RJ45 IP 20 with protective cap	Connector right	RJ45 IP 20 with protective cap
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**Classifications**

ETIM 6.0	EC002599	eClass 6.2	27-06-03-90
eClass 7.1	27-06-91-90	eClass 8.1	27-06-91-90
eClass 9.0	27-06-03-08	eClass 9.1	27-06-03-08

**Approvals**

ROHS	Conform
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**Downloads**

Brochure/Catalogue	<a href="#">CAT 9 IETH 15/16 EN</a> <a href="#">FL FIELDWIRING EN</a> <a href="#">PI PROFINET CABLING EN</a>
User Documentation	<a href="#">MAN IE GUIDE DE</a> <a href="#">MAN IE GUIDE EN</a>

**Data sheet****Industrial Ethernet  
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**Drawings****Wiring**

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

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