

**Industrial Ethernet  
IE-C5DD4UG0150A20A20-E**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
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www.weidmueller.com



Assembled IE cables, PROFINET, Cat. 5, PUR, green, drag-chain compatible, RJ45

**General ordering data**

Type	IE-C5DD4UG0150A20A20-E
Order No.	<a href="#">1173030150</a>
Version	Dragline cable, PROFINET, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 15 m
GTIN (EAN)	4032248985623
Qty.	1 pc(s).

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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**Technical data**
**Dimensions and weights**

Length	15 m	Length (inches)	0.591 inch
Net weight	968 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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**Cable specific standards**

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

**Electrical properties**

Insulation strength	500,000 Ω
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**General standards**

Certificate no. (cULus)	E316369	Connector standard	IEC 60603-7-51
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**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	Number 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)		

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**Technical data****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

**Mechanical and material properties of cable**

Min. bending radius, once only	5 x cable diameter	Min. bending radius, repetitive	7.5 x cable diameter
Bending cycles	3 Mio	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	Connector right	RJ45 IP 20
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**Classifications**

ETIM 6.0	EC002599	ETIM 7.0	EC002599
eClass 9.0	27-06-03-08	eClass 9.1	27-06-03-08
eClass 10.0	27-06-03-08		

**Approvals**

Approvals



ROHS Conform

**Downloads**

Brochure/Catalogue	<a href="#">CAT 9 IETH 18/19 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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**Accessories**

**Blank**



TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are five different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Pre-attachment of sleeves and retrofitting of tags offer excellent versatility

The special contour of TM-I allows easy assembly and secures firm positioning. They are compatible with a number of commercially available sleeves. Thanks to the MultiCard format, the tags can be printed quickly and conveniently with the SMark laser printer, PrintJet ADVANCED, plotter, MC-Mobilo or the STI pen.

- Easy handling of separation and installation thanks to the project marker field.
- Acknowledged and accredited marker for traffic engineering applications
- Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
- Not suited for labelling with P-Ink or STI pen in connection with CLI T sleeves

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

**General ordering data**

Type	TM-I 18 MC NE WS	Version
Order No.	<a href="#">1718431044</a>	TM-I, Insert markers, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 pc(s).	

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**General ordering data**

Type	TM-I 12 MC NE WS	Version
Order No.	<a href="#">1718411044</a>	TM-I, Insert markers, 12 x 4 mm, white
GTIN (EAN)	4008190348977	
Qty.	320 pc(s).	