

**Industrial Ethernet
IE-C5DD4UG0015MCSA20-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, M12-RJ45

General ordering data

Type	IE-C5DD4UG0015MCSA20-E
Order No.	1044470015
Version	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 1.5 m
GTIN (EAN)	4032248779062
Qty.	1 pc(s).

Creation date May 1, 2020 10:51:09 AM CEST

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

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Technical data
Dimensions and weights

Length	1.5 m	Length (inches)	0.059 inch
Net weight	124 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 61076-2-101, 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 ²
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 _{eff} , 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 ²
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	M12 D-code – IP 67 straight pin	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	CAT 9 IETH 18/19 EN CAT 8 SAI 15/16 EN FL FIELDWIRING EN PI PROFINET CABLING EN
Engineering Data	WSCAD
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

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

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

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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 12 MC NE GE	Version
Order No.	1718411687	TM-I, Insert markers, 12 x 4 mm, yellow
GTIN (EAN)	4008190348984	
Qty.	320 pc(s).	

Tool



Tools for stripping the sheathing from uncut power lines and outlet lines, plus screwdrivers for installing Pick-to-Light components.

General ordering data

Type	SCREWTY SET -DM	Version
Order No.	1920000000	Tools, Bolting tool
GTIN (EAN)	4032248436859	
Qty.	1 pc(s).	

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Accessories

Type	SCREWTY-M12-DM	Version
Order No.	1900001000	Tools, Cable gland tool for moulded M12 lines
GTIN (EAN)	4032248436408	
Qty.	1 pc(s).	

Blank



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General ordering data

Type	TM-I 18 MC NE GE	Version
Order No.	1718431687	TM-I, Insert markers, 18 x 4 mm, yellow
GTIN (EAN)	4008190349028	
Qty.	320 pc(s).	

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Accessories

Screwty® cable gland tool



The ideal tool for any application

Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

General ordering data

Type	SCREWTY- M12	Version
Order No.	1900000000	Tools, Cable gland tool for moulded M12 lines
GTIN (EAN)	4032248375868	
Qty.	1 pc(s).	
Type	SCREWTY SET	Version
Order No.	1910000000	Tools, Bolting tool
GTIN (EAN)	4032248436842	
Qty.	1 pc(s).	