

**Industrial Ethernet  
IE-C5DD4UG0020MCSMCS-E**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



Assembled IE cables, PROFINET, Cat. 5, PUR, green, drag-chain compatible, M12

**General ordering data**

Type	IE-C5DD4UG0020MCSMCS-E
Order No.	<a href="#">1025950020</a>
Version	Dragline cable, PROFINET, M12 D-code – IP 67 straight pin, M12 D-code – IP 67 straight pin, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 2 m
GTIN (EAN)	4032248830862
Qty.	1 pc(s).

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

Length	2 m	Length (inches)	0.079 inch
Net weight	158 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 61076-2-101	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
Certificate no. (cULus)	E316369		

**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	M12 D-code – IP 67 straight pin	Connector right	M12 D-code – IP 67 straight pin
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**Classifications**

ETIM 3.0	EC000830	ETIM 4.0	EC000830
ETIM 6.0	EC002599	eClass 6.2	27-06-91-90
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**

Approvals



ROHS Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">DUXR.E316369</a>
Brochure/Catalogue	<a href="#">FL FIELDWIRING EN</a> <a href="#">PI PROFINET CABLING EN</a>
Engineering Data	<a href="#">WSCAD</a>
User Documentation	<a href="#">MAN IE GUIDE DE</a> <a href="#">MAN IE GUIDE EN</a>

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**Drawings**

**Wiring**

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M12		M12
1	yellow	1
2	white	2
3	orange	3
4	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	Order No.	Version	GTIN (EAN)	Qty.
TM-I 18 MC	<a href="#">1718431687</a>	TM-I, Insert markers, 18 x 4	4008190349028	320 pc(s).
NE GE		mm, yellow		

### 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	Order No.	Version	GTIN (EAN)	Qty.
Screwty Set	<a href="#">191000000</a>	Tools, Bolting tool	4032248436842	1 pc(s).

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## Accessories

Screwty- M12 [1900000000](#)

Tools, Cable gland tool for 4032248375868 1 pc(s).  
moulded M12 lines

## 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	Order No.	Version	GTIN (EAN)	Qty.
Screwty-M12- DM	<a href="#">1900001000</a>	Tools, Cable gland tool for moulded M12 lines	4032248436408	1 pc(s).
Screwty Set- DM	<a href="#">1920000000</a>	Tools, Bolting tool	4032248436859	1 pc(s).

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**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
TM-I 12 MC	<a href="#">1718411687</a>	TM-I, Insert markers, 12 x 4	4008190348984	320 pc(s).
NE GE		mm, yellow		