Weidmüller ⋝⋸

Industrial Ethernet
IE-C5DD4UG0300MCSXXX-X

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

General ordering data

Type	IE-C5DD4UG0300MCSXXX-X
Order No.	1025940300
Version	Dragline cable, PROFINET, M12 D-code – IP 67 straight pin, Open, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 30 m
GTIN (EAN)	4032248750580
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	30 m	Length (inches)	1.181 inch
Net weight	1,840 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

Electrical properties

Insulation strength	500,000 Ω

Standards

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 mm²
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_{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

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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/s²
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	Open

Classifications

ETIM 4.0	EC001262	ETIM 5.0	EC001262
ETIM 6.0	EC002599	UNSPSC	30-21-18-01
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

ROHS	Conform

Downloads

Brochure/Catalogue	FL FIELDWIRING EN PI PROFINET CABLING EN
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

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Drawings

Wiring

	M12
yellow	1
white	2
orange	3
blue	4

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Accessories

Tools

- For PVC-insulated round cable
- For ribbon cable
- For UTP and STP data cables

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
AM 12	9030060000	Accessories, Sheathing strippers, UTP and STP data cables	4008190337827	1 pc(s).

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	1910000000	Tools, Bolting tool	4032248436842	1 pc(s).
Screwty- M12	1900000000	Tools, Cable gland tool for moulded M12 lines	4032248375868	1 pc(s).

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Accessories

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 Set - DM	1920000000	Tools, Bolting tool	4032248436859	1 pc(s).
Screwty-M12-DM	1900001000	Tools, Cable gland tool for moulded M12 lines	4032248436408	1 pc(s).

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 12 MC NE WS	1718411044	TM-I, Insert markers, 12 x 4 mm, white	4008190348977	320 pc(s).

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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
TM-I 18 MC NE WS	1718431044	TM-I, Insert markers, 18 x 4 mm, white	4008190349011	320 pc(s).

Tools

The CST with blue blade cartridge produces the best stripping results.
The blue double-stage blade cartridge is particularly suited for Ethernet cables. It saves time and also ensures optimal stripping results.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
IE-CST	9204350000	Accessories, Sheathing strippers, Coaxial & round data cables	4032248653072	1 pc(s).

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