



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com





Assembled IE cables, PROFINET, Cat. 5, PUR, green, dragchain compatible, M12-RJ45

General ordering data

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, 15 m
Order No.	1044470150
Туре	IE-C5DD4UG0150MCSA70-E
GTIN (EAN)	4032248776603
Qty.	1 items





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Technical data

Approvals			
Approvals	C UL US		
ROHS	Conform		
UL File Number Search	<u>UL Website</u>		
Certificate no. (cULus)	E316369		
Dimensions and weights			,
Length Net weight	15 m 849.2 g	Length (inches)	590.5512 inch
Temperatures			
Storage temperature Installation temperature	-50 °C70 °C -20 °C60 °C	Operating temperature	-40 °C70 °C
Environmental Product Comp	liance		
Paul Compliance Status	Compliant with exemption		
RoHS Compliance Status RoHS Exemption (if applicable/known)	Compliant with exemption 6c		
REACH SVHC	Lead 7439-92-1		
SCIP	67cf1078-beca-4687-860b	-dc475a6ec24a	
Cable specific 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- AB		
General standards			
Connector standard	IEC 61076-2-101, IEC 60603-7-51	Certificate no. (cULus)	E316369
Standards			,
Standard, insulating material	DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3)	Connector standard	IEC 61076-2-101, IEC 60603-7-51
Standard, wire material	DIN EN 13602 Cu-ETP-A	Standard, shielding material	DIN EN 13602 Cu-ETP- AB
Cable structure			
Strands	7	Sheathing colour	green (RAL 6018)
Standard designations	2YH(ST)C11Y 2x2x0,75/1,5-100 LI VZN GN FRNC	Cross-section	4*AWG 22/7 - 0.32 mm ²
Shielding	SF/UTP	Number of wires	4
Insulation cross-section	1.5 mm	Insulation	PE
Sheath diameter, max.	6.7 mm	Sheath diameter, min.	6.3 mm
Material sheath	PUR	Filler	As central element

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Arrangement of wire cores	Star-quad	Wire core insulation thickness	0.38 mm
Complete shielding	Aluminium foil, Shielding braid made from copper wiring	Overlap of shielding braid	85 %
Wire material	Stranded tin-plated copper wire	Diameter of inner sheathing	3.9 mm
Sheathing material thickness	0.9 mm	Colour sequence or wires - wire pairs	white, yellow, blue, orange
Shielding braid thickness	0.13 mm		

Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Speed	180 m/min
Capacity at 1 kHz	52 nF/km	Loop resistance	120 Ω/km
Signal propagation time	5.3 ns/m	Test voltage: wire-wire-shield	2000 Veff, 50 Hz, 1 min
Resistance differential	3 %	Operating voltage, UL	600 V
Delay skew	40 ns/100m	Operating voltage (UL rating)	600 V
Transfer impedance	$20~\text{m}\Omega/\text{m}$ at $10~\text{MHz}$	Characteristic impedance	$100\pm15~\Omega$ at 1–100 MHz

Mechanical and material properties of cable

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

Plug, left

Plug left	M12, IP67, male contact, straight, plug, Plastic, shielded	

Plug, right

Plug right	RJ45, IP20, male contact, straight, plug, Plastic, shielded

Classifications

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	EC002599	ETIM 9.0	EC002599
ETIM 10.0	EC002599	ECLASS 9.0	27-06-03-08
ECLASS 9.1	27-06-03-08	ECLASS 10.0	27-06-03-08
ECLASS 11.0	27-06-03-08	ECLASS 12.0	27-06-03-08
ECLASS 13.0	27-06-03-08	ECLASS 14.0	27-06-03-08
ECLASS 15.0	27-06-03-08		





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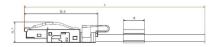
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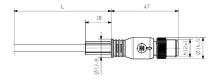
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Drawings

Dimensioned drawing







Wiring

RJ45		M12
1	yellow	1
3 —	white	
•	orange	
2 ——	blue	3
6 ——	biue	4



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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

Туре	SCREWTY- M12
Order No.	<u>190000000</u>
GTIN (EAN)	4032248375868
Otv	1 ST

Version

Cable gland tool for moulded M12 lines

Screwty® cable gland tool with torque function



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

Туре	SCREWTY-M12-DM	Version	
Order No.	<u>1900001000</u>	Cable gland tool for moulded M12 lines	
GTIN (EAN)	4032248436408		
Qty.	1 ST		

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Accessor<u>ies</u>

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General ordering data

Туре	SCREWTY SET	Version
Order No.	<u>1910000000</u>	Cable gland tool for M8, M12 lines and connectors
GTIN (EAN)	4032248436842	
Qty.	1 ST	

Screwty® cable gland tool with torque function



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

Туре	SCREWTY SET-DM	Version
Order No.	<u>1920000000</u>	Cable gland tool for M8, M12 lines and connectors
GTIN (EAN)	4032248436859	
Qty.	1 ST	

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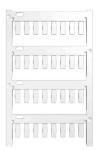
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Accessories

Blank



TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are various different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Preattachment 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 PrintJet CONNECT, plotter 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-lnk 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 WS	Version
Order No.	<u>1718411044</u>	TM-I, Insert markers, 12 x 4 mm, white
GTIN (EAN)	4008190348977	
Qty.	320 ST	
Туре	TM-I 18 MC NE WS	Version
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Order No.	<u>1718431044</u>	TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, white

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