

IE TP CORD M12-180/M12-180 PREASSEM. IE FLEXIBLE CABLE,
WITH 2 M12 PLUGS, (X-CODED), LENGTH 1M



Wire length	1 m
Electrical data	
Damping ratio per length	
• at 10 MHz / maximum	0.086 dB/m
• at 100 MHz / maximum	0.28 dB/m
• at 300 MHz / maximum	0.402 dB/m
• at 600 MHz / maximum	0.735 dB/m
Impedance	
• at 1 MHz ... 100 MHz	100 Ω
Near-end crosstalk per length	
• at 100 MHz	0.724 dB/m
• at 300 MHz	0.653 dB/m
• at 600 MHz	0.608 dB/m
Loop resistance per length / maximum	290 mΩ/m
Insulation resistance coefficient	5000 GΩ·m
Operating voltage	
• RMS value	80 V
NVP value in percent	68 %

Mechanical data	
Number of electrical cores	8
Design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Type of electrical connection / FastConnect	No
Core diameter <ul style="list-style-type: none"> • of AWG26 core 	0.48 mm
Outer diameter <ul style="list-style-type: none"> • of the wire insulation • of the inner sheath of the cable • of cable sheath 	1 mm 5.4 mm 6.5 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
Material <ul style="list-style-type: none"> • of the wire insulation • of cable sheath 	PE PUR
Color <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath 	white/blue, white/orange, white/green, white/brown green
Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	32.5 mm 65 mm
Tensile load / maximum	100 N
Weight per length	45 kg/km

Permitted ambient conditions	
Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation 	-30 ... +80 °C -40 ... +80 °C -40 ... +80 °C -40 ... +80 °C
Burning behavior	flame resistant according to IEC 60332-1-2
Chemical resistance <ul style="list-style-type: none"> • to grease • to water 	Conditional resistance conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general	
Product feature <ul style="list-style-type: none"> • halogen-free • silicon-free 	Yes Yes

Standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes

UL/ETL style / 600 V Rating	No
Certificate of suitability	
• CE marking	Yes
• RoHS conformity	Yes
Standard for structured cabling	Cat6A
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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