

SIMATIC NET,IE CONNECTING CABLE M12-180/M12-180  
PREASSEMBLED IE FC TRAILING CABLE GP,  
WITH 2 M12 CONNECTORS (D-CODED),  
LENGTH 1.5 M



Cable length 1.5 m

[nicht versorgt: TAK\_ABR691\_001\_000]

Damping ratio per length	
• at 10 MHz / maximum	0.063 dB/m
• at 100 MHz / maximum	0.213 dB/m
Impedance	
• for frequency range 1 MHz ... 100 MHz	100 Ω
Relative symmetrical tolerance	
• of the surge impedance at 1 MHz ... 100 MHz	5 %
Near-end crosstalk per length	
• at 1 MHz ... 100 MHz	0.5 dB/m
Transfer impedance / at 10 MHz	20 mΩ/m
Loop resistance per length / maximum	120 Ω/km
Operating voltage	
• RMS value	100 V

**Mechanical data**

Number of electrical wires	4
Core diameter	
• of the AWG22 core	0.75 mm
Outer diameter	
• of the inner conductor	0.75 mm

• of the wire insulation	1.5 mm
• of the inner sheath of the cable	3.9 mm
• of the cable sheath	6.5 mm
Symmetrical tolerance of outer diameter / of cable sheath	0.2 mm
Material	
• of cable sheath	PVC
Bending radius	
• with single bend / minimum permissible	32.5 mm
• with multiple bends / minimum permissible	49 mm
• with continuous bending	100 mm
Number of bending cycles	3000000
Traction stress / maximum	150 N
Weight per length	68 kg/km
<b>Permitted ambient conditions</b>	
Ambient temperature	
• during operating	-25 ... +75 °C
• during storage	-25 ... +75 °C
• during transport	-25 ... +75 °C
• during installation	-10 ... +60 °C
<b>Product properties, functions, components / general</b>	
Product feature	
• halogen-free	No
• [not supplied - silicon-free]	Yes
<b>Standards, specifications, approvals</b>	
Verification of suitability	
• RoHS conformity	Yes
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
<b>letzte Änderung:</b>	Jul 17, 2012