

product type designation

product description

Robust Power Connecting Cable M12-180/M12-180, IP69, 1 m

Robust, flexible connection cable (4-wire), preferred length, preassembled with two 4 pin M12 connectors (A-coded)

Robust Power Connecting Cable M12-180/M12-180, IP69, for Power supply of the ET 200, pre-assembled cable with M12 plug and M12 socket, A-coded, 4-pole, 1.0 m.



suitability for use

For connecting Industrial Ethernet stations with degree of protection IP65/67/69. Cable with FEP jacket (fluorinated plastic, perfluoroethylene propylene) for use in the food, beverage and tobacco industry (IP69 resistant). Cable is water-repellent, weather-proof, resistant to microbes, and extremely resistant to many cleaning agents and disinfectants (such as hypochlorite, chlorine dioxide, peroxyacetic acid, and quaternary ammonium cations).

cable designation	LI9YY6Y 4X1X0.75 GY
wire length	1 m
electrical data	
insulation resistance coefficient	20 GΩ·m
operating voltage / RMS value	300 V
conductor cross section / of the power line	0.75 mm ²
continuous current / of the power lines	4.5 A
mechanical data	
number of electrical cores	4
outer diameter	
• of inner conductor	1.15 mm
• of the wire insulation	1.7 mm
• of cable sheath	5.7 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
conductor class	5
material	
• of the conductor	CU, blank
• of the wire insulation	PP
• of cable sheath	PVC/FEP; FEP transparent
product component / PE connection	No
marking / of cores	Color
color	
• of the power line insulation	brown / blue, white / black
• of cable sheath	gray
bending radius	
• with single bend / minimum permissible	23 mm
• with multiple bends / minimum permissible	46 mm
• with continuous bending	100 mm
number of bending cycles	1000000; acceleration 4 m/s ²
number of torsion cycles / with torsion by ± 180° on 1 m	1000000

cable length	
tensile load / maximum	150 N
weight per length	53 kg/km
ambient conditions	
ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-40 ... +80 °C
fire behavior	Flame-resistant acc. to IEC 60332-1-2
chemical resistance	
• to mineral oil	oil resistant according to DIN EN 60811-404 (7x24h/90°C)
• to grease	resistant
• to water	resistant
radiological resistance / to UV radiation	resistant according to UL 2556 Sec. 4.2.8.5
protection class IP	IP69
product features, product functions, product components / general	
product feature	
• halogen-free	No
• silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	UL: E337822 PROCESSED WIRE COMPONENT
• EAC approval	Yes
• RoHS conformity	Yes
further information / internet-Links	
Internet-Link	
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• 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: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
• 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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