SIEMENS

Data sheet 6XV1801-5AH50

Product type designation
Product description

Robust Power Connecting Cable M12-180/M12-180, IP69, 5 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 connector and M12 socket, A-coded, 4-pole, 5.0 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	5 m

Electrical data	
Insulation resistance coefficient	20 GΩ·m
Operating voltage / RMS value	300 V
Conductor cross section / of the power wire	0.75 mm²
Continuous current / of the power wires	4.5 A

Mechanical data	
Number of electrical cores	4

Subject to change without notice
© Copyright Siemens

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 wire 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/s²
Number of torsion cycles / with torsion by ± 180° on 1 m cable length	1000000
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
Burning 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

Subject to change without notice
© Copyright Siemens

Standards, specifications, approvals

Certificate of suitability	UL: E337822 PROCESSED WIRE COMPONENT
• RoHS conformity	Yes

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
last modified:	07/22/2020

Subject to change without notice
© Copyright Siemens