

### product description

Rugged, flexible plug-in cable (4-core), preferred length, preassembled with two 4-pole M12 plugs (L-coded)

robust power connecting cable M12-180/M12-180; IP69; 4x1.5 sq. mm for power supply of end devices/network components, preassembled cable with M12 plug and M12 socket, L-coded, 4-pole, 10 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 4X1X1.5 VZN GY

### wire length

10 m

### electrical data

#### insulation resistance coefficient

20000 MΩ·m

#### operating voltage / RMS value

300 V

#### conductor cross section / of the power line

1.5 mm<sup>2</sup>

#### continuous current / of the power lines

12.5 A

### mechanical data

#### number of electrical cores

4

#### outer diameter

- of inner conductor
- of the wire insulation
- of cable sheath

1.5 mm  
2.4 mm  
7.6 mm

#### symmetrical tolerance of the outer diameter / of cable sheath

0.2 mm

#### conductor class

5

#### material

- of the conductor
- of the wire insulation
- of cable sheath

CU, tin-coated  
PP  
PVC/FEP; FEP transparent

#### property of the cable sheath / oil-resistant

Yes

#### product component / PE connection

No

#### marking / of cores

Color

#### color

- of the power line insulation
- of cable sheath

brown / blue, white / black  
gray

#### bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible
- with continuous bending

30 mm  
61 mm  
100 mm

#### number of bending cycles

500000; acceleration 4 m/s<sup>2</sup>

#### number of torsion cycles / with torsion by ± 180° on 1 m cable length

1000000

#### tensile load / maximum

150 N

#### weight per length

107 kg/km

<b>plug</b>	
type of plug interlock	screwed
design of plug-in connection	M12-180
connector coding	M12
connector coding / of the M12 circular connector	L-coded
<b>ambient conditions</b>	
ambient temperature	
• during operation	-40 ... +90 °C
• during storage	-40 ... +90 °C
• during transport	-40 ... +90 °C
• during installation	-40 ... +90 °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	IP67/IP69
<b>product features, product functions, product components / general</b>	
product feature	
• halogen-free	No
• silicon-free	Yes
<b>standards, specifications, approvals</b>	
UL/ETL listing / 300 V Rating	Yes
certificate of suitability	CMG FT4 75°C or (ETL)us PLTC-ER SUN RES OIL RES I or E502506-LFR AWM 22165 AWM I A/B 90°C 300V FT2
• EAC approval	Yes
• RoHS conformity	Yes
• for hygienic design	EHEDG (cable material)
reference code	
• according to IEC 81346-2:2019	WDB
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
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• to website: CAX-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
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<b>security information</b>	
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<b>Approvals / Certificates</b>	
General Product Approval	Food, Pharmaceutical, Medical



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