

product type designation

product description

Robust Power Connecting Cable M12-180/M12-180, IP69, 10 m

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.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1801-6EN10>

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 mm²

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/s²

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

1000000

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| length | |
| tensile load / maximum | 150 N |
| weight per length | 107 kg/km |
| plug | |
| type of plug interlock | screwed |
| design of plug-in connection | M12-180 |
| connector coding | M12 |
| connector coding / of the M12 circular connector | L-coded |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation during storage during transport during installation | -40 ... +90 °C |
| fire behavior | Flame-resistant acc. to IEC 60332-1-2 |
| chemical resistance | |
| <ul style="list-style-type: none"> to mineral oil to grease to water | oil resistant according to DIN EN 60811-404 (7x24h/90°C) resistant resistant |
| radiological resistance / to UV radiation | resistant according to UL 2556 Sec. 4.2.8.5 |
| protection class IP | IP67/IP69 |
| product features, product functions, product components / general | |
| product feature | |
| <ul style="list-style-type: none"> halogen-free silicon-free | No Yes |
| standards, specifications, approvals | |
| 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 |
| <ul style="list-style-type: none"> EAC approval RoHS conformity for hygienic design | Yes Yes EHEDG (cable material) |
| further information / internet links | |
| internet link | |
| <ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to website: Industrial communication to web page: SiePortal to website: Image database to website: CAX-Download-Manager to website: Industry Online Support | https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com |
| security information | |
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last modified:

10/29/2025 