

Network cable - VS-OE-M12MS-93R-LI/2,0 - 1416251

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Bus system cable, PROFINET, 4-pos., green PVC, shielded, straight M12 D-coded plug on the free conductor end, length: 2 m



Key commercial data

| | |
|----------------------|----------|
| Packing unit | 1 pc |
| Custom tariff number | 85444210 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |

General data

| | |
|----------------------|--------------------------------|
| Number of positions | 4 |
| Signal type/category | PROFINET CAT5 (IEC 11801:2002) |
| | PROFINET CAT5e (TIA 568B:2001) |

Characteristics head 1

| | |
|--|-------------------|
| Head type | Plug Straight M12 |
| No. of positions (pin connector pattern) | 4 |

Characteristics head 2

| | |
|-----------|----------------|
| Head type | free cable end |
|-----------|----------------|

Cable

| | |
|------------|----------------------|
| Cable type | PROFINET robot CAT5e |
|------------|----------------------|

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Technical data

Cable

| | |
|--|---|
| Cable type (abbreviation) | 93R |
| UL AWM style | 20233 (80°C/300 V) |
| Signal type/category | PROFINET CAT5 (IEC 11801:2002), 100 Mbps |
| | PROFINET CAT5e (TIA 568B:2001), 100 Mbps |
| Cable structure | 1x4xAWG22/19; S/TQ |
| Conductor cross section | 4x 0.38 mm ² |
| AWG signal line | 22 |
| Conductor structure signal line | 19x 0.16 mm |
| Core diameter including insulation | approx. 1.5 mm |
| Wire colors | White, yellow, blue, orange |
| Overall twist | Star quad |
| Shielding | Tinned copper braided shield |
| External sheath, color | Green RAL 6018 |
| Outer sheath thickness | approx. 1 mm |
| External cable diameter D | 6.5 mm ±0.2 mm |
| Minimum bending radius, fixed installation | 5 x D |
| Torsion force | ± 180 °/m (1,000,000 torsion cycles) |
| Cable weight | 55 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | PE |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ 500 MΩ*km |
| Conductor resistance | ≤ 120000000 Ω/km |
| Working capacitance | 52 pF |
| Wave impedance | 100 Ω ±5 Ω (at 1 ... 100 MHz) |
| Signal runtime | 4.8 ns/m |
| Nominal voltage, cable | 300 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000 V (50 Hz, 1 min.) |
| Flame resistance | According to IEC 60332-1-2 |
| Halogen-free | According to IEC 60754-1 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | UV resistant According to UL 1581, Section 1200 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -40 °C ... 80 °C (cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 60 °C |

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Technical data

Cable

| | |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
|---|------------------|

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27060390 |
| eCl@ss 7.0 | 27060390 |
| eCl@ss 8.0 | 27060390 |

ETIM

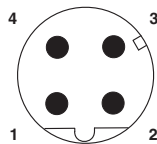
| | |
|----------|----------|
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC000830 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11 | 26121604 |
| UNSPSC 12.01 | 31261501 |
| UNSPSC 13.2 | 26121616 |

Drawings

Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

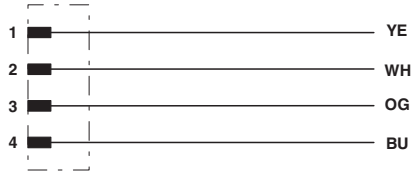
Cable cross section



PROFINET robot CAT5e [93R]

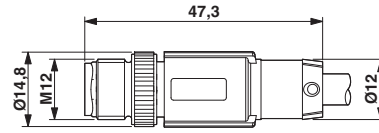
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Circuit diagram



Contact assignment of the M12 connector

Dimensioned drawing



Plug, M12 x 1, straight, shielded

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