

Network cable - VS-MSD-IP20-93E/3,0 - 1403499

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26, stranded (7-wire), RAL 5021 (aqua blue), M12 plug to RJ45 plug/IP20, line, length 3 m



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 160.0 g |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 3 m |
|-----------------|-----|

Ambient conditions

| | |
|----------------------|-----------------------|
| Degree of protection | IP20 (RJ45 connector) |
| | IP67 (M12 connector) |

General data

| | |
|----------------------|-------------------------------------|
| Number of positions | 4 |
| Signal type/category | Ethernet CAT5 (IEC 11801), 100 Mbps |
| Overvoltage category | I |
| Degree of pollution | 3 |

Characteristics head 1

| | |
|--|--------------------------|
| Head type | Plug straight M12 / IP67 |
| No. of positions (pin connector pattern) | 4 |
| Coding | D (Data) |
| Color | black |

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Technical data

Characteristics head 1

| | |
|---------------------------------|--|
| Material (component) | CuZn (Contact) |
| | Ni/Au (Contact surface) |
| | TPU GF (Contact carriers) |
| | TPU, hardly inflammable, self-extinguishing (Grip) |
| | Zinc die-cast, nickel-plated (Screw connection) |
| Shielded | yes |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm |
| Ambient temperature (operation) | -25 °C ... 90 °C |

Characteristics head 2

| | |
|--|---------------------------|
| Head type | Plug straight RJ45 / IP20 |
| No. of positions (pin connector pattern) | 4 (8) |
| Color | gray |
| Material (component) | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PC (Contact carriers) |
| | PA (Housing) |
| Shielded | yes |
| Insertion/withdrawal cycles | ≥ 750 |
| Ambient temperature (operation) | -40 °C ... 60 °C |

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | V2 |
|--|----|

Cable

| | |
|------------------------------------|--|
| Cable type | PUR ETHERNET 2x2 FLEX |
| Cable type (abbreviation) | 93E |
| UL AWM style | 20963 (80°C/30 V) |
| Signal type/category | Ethernet CAT5 (IEC 11801), 100 Mbps |
| Cable structure | 2x2xAWG26/7; SF/UTP |
| Conductor cross section | 2x 2x 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 0.98 mm |
| Wire colors | white/orange-orange, white/green-green |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Two pairs with two fillers to the core |
| Shielding | Aluminum-coated foil, tinned copper braided shield |

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Technical data

Cable

| | |
|---|---|
| Optical shield covering | 70 % |
| External sheath, color | water blue RAL 5021 |
| Outer sheath thickness | 1.2 mm |
| External cable diameter D | 6.4 mm ±0.2 mm |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Tensile strength short-term/long-term | ≤ 80N |
| Cable weight | 42 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | Foamed PE |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 500 MΩ*km |
| Conductor resistance | ≤ 290 Ω/km |
| Cable capacity | approx. 45 nF/km (at 1 kHz) |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Signal runtime | 5.3 ns/m |
| Coupling resistance | ≤ 100.00 mΩ/m (At 10 MHz) |
| Nominal voltage, cable | ≤ 100 V |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700 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 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °C ... 80 °C (cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 80 °C |
| Ambient temperature (storage/transport) | -20 °C ... 80 °C |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 8.0 | 27060308 |
| eCl@ss 9.0 | 27060308 |

ETIM

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

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 26121609 |
| UNSPSC 7.0901 | 26121609 |
| UNSPSC 11 | 26121609 |
| UNSPSC 12.01 | 26121609 |
| UNSPSC 13.2 | 26121609 |

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

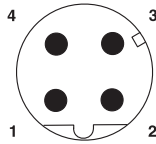
Approval details

| |
|-----|
| EAC |
|-----|

Drawings

Network cable - VS-MSD-IP20-93E/3,0 - 1403499

Schematic diagram



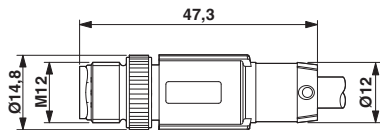
Pin assignment M12 male connector, 4-pos., D-coded, male side

Cable cross section



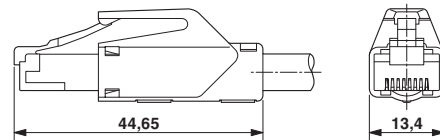
PUR ETHERNET 2x2 FLEX [93E]

Dimensional drawing



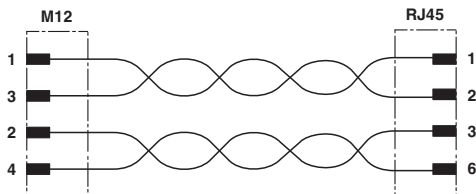
Plug, M12 x 1, straight, shielded

Dimensional drawing

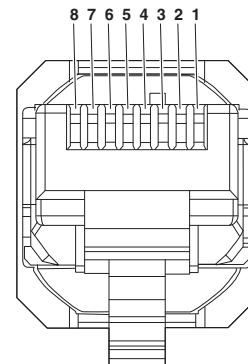


RJ45 connector, IP20

Circuit diagram



Schematic diagram



Connector pin assignment plug RJ45

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