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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Network cable - VS-M12MS-OE-93E-LI/2,0 - 1405798

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 plug on free conductor end, line, length 2 m



**Ethernet**

### Key commercial data

|                      |   |
|----------------------|---|
| Packing unit         | 1 PCE   |
| Catalog page         | Page 297 (PC-2011)  |
| GTIN                 | <br>4 046356 475952 |
| Custom tariff number | 85444210  |
| Country of origin    | POLAND  |

### Technical data

#### Mechanical characteristics

|   |  |
|---|--|
| Number of positions                           | 4  |
| Number of slots                               | 1  |
| Shielded                                      | Yes  |
| Insertion/withdrawal cycles                   | ≥ 100  |
| Cable diameter                                | 6.70 mm  |
| Cable exit                                    | Straight                                       |
| Cable structure                               | 2x2xAWG26/7; S-FTP                             |
| Smallest bending radius, fixed installation   | 33.5 mm (cable, fixed installation)            |
| Smallest bending radius, movable installation | 33.5 mm (cable, flexible installation)         |
| Length of cable                               | 2 m  |
| Ambient temperature (operation)               | -25 °C ... 60 °C (cable, fixed installation)   |
| Ambient temperature (operation)               | -5 °C ... 60 °C (cable, flexible installation) |

#### Material data

## Network cable - VS-M12MS-OE-93E-LI/2,0 - 1405798

### Technical data

#### Material data

|   |                     |
|---|---------------------|
| Inflammability class according to UL 94 | V0                  |
| Outer sheath, material                  | PUR                 |
| External sheath, color                  | water blue RAL 5021 |
| Degree of protection                    | IP65/IP67/IP69K     |

#### Electrical characteristics

|   |  |
|---|--|
| Transmission characteristics (category) | CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001) |
|---|--|

#### Line characteristics

|   |  |
|---|--|
| Cable type                                    | Ethernet                                     |
| Cable structure                               | 2x2xAWG26/7 PIMF                             |
| Conductor cross section                       | 2x 2x 0.14 mm <sup>2</sup>                   |
| AWG signal line                               | 26   |
| Conductor structure signal line               | 7x 0.15 mm                                   |
| Core diameter including insulation            | ≤ 1.05 mm                                    |
| External cable diameter                       | 6.7 mm                                       |
| Wire colors                                   | white/orange-orange, white/green-green       |
| External sheath, color                        | water blue RAL 5021                          |
| Transmission medium                           | Copper                                       |
| Insulation resistance                         | ≥ 5 GΩ*km                                    |
| Conductor resistance                          | ≤ 150 Ω/km                                   |
| Transmission characteristics (category)       | CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001) |
| Working capacitance                           | 42 pF  |
| Wave impedance                                | 100 Ω ±5 % (At 100 MHz)                      |
| Signal speed                                  | 0.72 c                                       |
| Shield attenuation                            | 60 dB (Up to 1000 MHz)                       |
| Coupling resistance                           | 5.00 mΩ/m (At 10 MHz)                        |
| Nominal voltage, conductor                    | max. 125 V                                   |
| Test voltage, conductor                       | 1000 V                                       |
| Twisted pairs                                 | 2 cores to the pair                          |
| Type of pair shielding                        | Aluminum-lined polyester foil                |
| Overall twist                                 | Two pairs with two fillers to the core       |
| Shielding                                     | Tinned copper braided shield                 |
| Outer sheath, material                        | PUR  |
| Material conductor insulation                 | Cell PE                                      |
| Conductor material                            | Bare Cu litz wires                           |
| Cable weight                                  | 42 kg/km                                     |
| Smallest bending radius, movable installation | 34 mm  |

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### Technical data

#### Line characteristics

|                                       |   |
|---------------------------------------|---|
| Tensile strength short-term/long-term | 30N bei Installation / 10N nach Installation                        |
| Special properties                    | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                      | complying with IEC 60332-2-2  |
| Halogen-free                          | complying with IEC 60754-1/2  |
| Resistance to oil                     | in accordance with DIN EN 60811-2-1                                 |
| Other resistance                      | Microbe resistance as per VDE 0282 section 10                       |
| Other resistance                      | Hydrolysis resistance as per DIN 53504                              |
| Ambient temperature (operation)       | -40 °C ... 70 °C (cable, fixed installation)                        |
| Ambient temperature (operation)       | -10 °C ... 50 °C (cable, flexible installation)                     |

### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001262 |
| ETIM 4.0 | EC001262 |
| ETIM 5.0 | EC000830 |

#### UNSPSC

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

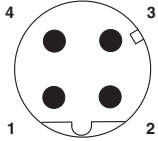
#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

### Drawings

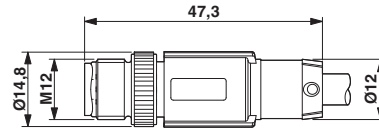
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Schematic diagram



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

Dimensioned drawing



Plug, M12 x 1, straight, shielded

Circuit diagram

