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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-IP20-94B-LI/10,0 - 1404310


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Assembled Ethernet cable, shielded, 4-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), M12 plug to RJ45 plug/IP20, line, length 10 m



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 046356 690164 |
| GTIN         | 4046356690164   |

## Technical data

### Mechanical characteristics

|                             |          |
|-----------------------------|----------|
| Number of positions         | 8        |
| Insertion/withdrawal cycles | ≥ 100    |
| Cable outlet                | straight |
| Length of cable             | 10 m     |
| No. of cable outlets        | 1        |

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -25 °C ... 60 °C (cable, fixed installation)   |
|                                 | -5 °C ... 60 °C (cable, flexible installation) |

### Material data

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

### Standards and Regulations

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

### Line characteristics

|                    |                          |
|--------------------|--------------------------|
| Cable type         | Ethernet, flexible, CAT5 |
| Cable abbreviation | 02YS(ST)C11Y             |
| UL AWM style       | 20963 (80°C/30 V)        |

# Network cable - VS-M12MS-IP20-94B-LI/10,0 - 1404310

## Technical data

### Line characteristics

|                                       |  |
|---------------------------------------|--|
| Cable structure                       | 4x2xAWG26/7; SF/UTP  |
| Conductor cross section               | 4x 2x 0.14 mm <sup>2</sup>   |
| AWG signal line                       | 26   |
| Conductor structure signal line       | 7x 0.16 mm   |
| Core diameter including insulation    | 0.96 mm  |
| External cable diameter               | 6.4 mm ±0.2 mm   |
| Wire colors                           | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| External sheath, color                | water blue RAL 5021  |
| Transmission medium                   | Copper   |
| Insulation resistance                 | ≥ 500 MΩ*km  |
| Wave impedance                        | 100 Ω ±5 Ω (at 100 MHz)  |
| Near end crosstalk attenuation (NEXT) | 71.3 dB (with 1 MHz)   |
|                                       | 62.3 dB (at 4 MHz)   |
|                                       | 56.3 dB (at 10 MHz)  |
|                                       | 53.2 dB (at 16 MHz)  |
|                                       | 51.8 dB (at 20 MHz)  |
|                                       | 48.9 dB (at 31.25 MHz)   |
|                                       | 44.4 dB (at 62.5 MHz)  |
|                                       | 41.3 dB (at 100 MHz)   |
| Wave attenuation                      | 3.2 dB (with 1 MHz)  |
|                                       | 6 dB (at 4 MHz)  |
|                                       | 9.5 dB (at 10 MHz)   |
|                                       | 12.1 dB (at 16 MHz)  |
|                                       | 13.6 dB (at 20 MHz)  |
|                                       | 17.1 dB (at 31.25 MHz)   |
|                                       | 24.8 dB (at 62.5 MHz)  |
|                                       | 32 dB (at 100 MHz)   |
| Return Loss                           | 23 dB (at 4 MHz)   |
|                                       | 24.1 dB (at 8 MHz)   |
|                                       | 25 dB (at 10 MHz)  |
|                                       | 25 dB (at 16 MHz)  |
|                                       | 25 dB (at 20 MHz)  |
|                                       | 23.6 dB (at 31.25 MHz)   |
|                                       | 21.5 dB (at 62.5 MHz)  |
|                                       | 20.1 dB (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.)  |

# Network cable - VS-M12MS-IP20-94B-LI/10,0 - 1404310

## Technical data

### Line characteristics

|   |  |
|---|--|
| Twisted pairs                                 | 2 cores to the pair                                |
| Overall twist                                 | 4 pairs for core                                   |
| Shielding                                     | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering                       | 70 %   |
| Outer sheath, material                        | PUR  |
| Material conductor insulation                 | Foamed PE  |
| Conductor material                            | Bare Cu litz wires                                 |
| Cable weight                                  | 47 kg/km   |
| Minimum bending radius, fixed installation    | 4 x D  |
| Minimum bending radius, flexible installation | 8 x D  |
| Flame resistance                              | according to IEC 60332-1-2                         |
| Halogen-free                                  | according to IEC 60754-1                           |
| Resistance to oil                             | according to EN 60811-2-1                          |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)       |
|   | -20 °C ... 80 °C (cable, flexible installation)    |

### Environmental Product Compliance

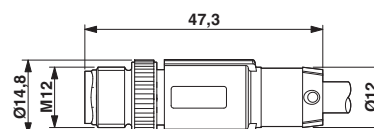
|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Cable cross section



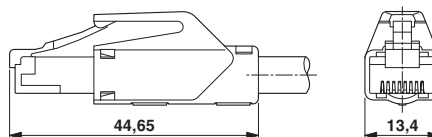
Dimensional drawing



Ethernet, flexible, CAT5 [94B]

Plug, M12 x 1, straight, shielded

Dimensional drawing



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PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>