

Bus system cable - VS-IP20/10G-IP20/10G-94F/1 - 1418866

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Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (Line), assembled at both ends with RJ45/IP20 connectors; outer sheath material: PUR; length: 1 m



Key commercial data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 60.0 GRM |
| Custom tariff number | 85444210 |
| Country of origin | Germany |

Technical data

Mechanical characteristics

| | |
|-----------------------------|--------------------|
| Number of positions | 8 |
| Shielded | Yes |
| Insertion/withdrawal cycles | 200 |
| Cable diameter | 6.70 mm |
| Cable structure | 4x2xAWG26/7; S/FTP |
| Length of cable | 1 m |

Ambient conditions

| | |
|---------------------------------|-----------------------------------|
| Ambient temperature (operation) | -25 °C ... 60 °C (RJ45 connector) |
| Degree of protection | IP20 |

Material data

| | |
|------------------------|---------------------|
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |

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Technical data

Electrical characteristics

| | |
|---|-------------------|
| Transmission characteristics (category) | CAT6 _A |
|---|-------------------|

Line characteristics

| | |
|---|--|
| Cable type | Ethernet 10 Gbit |
| UL AWM style | 20963 (80°C/30 V) |
| Cable structure | 4x2xAWG26/7; S/FTP |
| Conductor cross section | 4x 2x 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 1.04 mm |
| Thickness, insulation | 0.28 mm (signal line) |
| 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) |
| Signal runtime | 5.13 ns/m |
| Shield attenuation | ≥ 80 dB (at 30 ... 100 MHz) |
| Nominal voltage, cable | ≤ 100 V (at 20 °C) |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700 V (50 Hz, 1 min.) |
| Twisted pairs | 2 cores to the pair |
| Type of pair shielding | Aluminum-lined foil |
| Overall twist | 4 pairs |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 70 % |
| Outer sheath, material | PUR |
| Material conductor insulation | PE |
| Conductor material | Bare Cu litz wires |
| Cable weight | 42 kg/km |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Tensile strength short-term/long-term | ≤ 100 N |
| Flame resistance | IEC 60332-1-2 |
| Halogen-free | According to IEC 60754-1 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |

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Technical data

Line characteristics

| | |
|---------------------------------|---|
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °C ... 80 °C (cable, flexible installation) |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27060307 |
| eCl@ss 4.1 | 27060307 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

ETIM

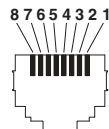
| | |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC000830 |

UNSPSC

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

Drawings

Schematic diagram



Connector pin assignment plug RJ45

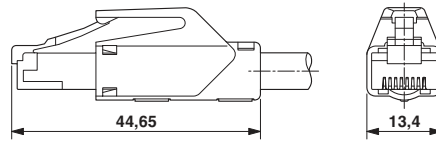
Cable cross section



Ethernet 10 Gbit [94F]

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Dimensioned drawing



RJ45 connector, IP20