

VS-OE-IP20-93C-LI/2,0 - Network cable



1416182

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Assembled PROFINET cable, CAT5e, shielded, star quad, AWG 22 flexible cable conduit capable (7-wire), RAL 6018 (yellow-green), RJ45 plug/IP20 on free conductor end, line, length 2 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1416182 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB11 |
| Product key | ABNABA |
| GTIN | 4046356474658 |
| Weight per piece (including packing) | 147 g |
| Weight per piece (excluding packing) | 140.448 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|--------------------------|
| Product type | Data cable preassembled |
| Product family | RJ45 INDUSTRIAL PN4 CAT5 |
| Sensor type | PROFINET |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Cable outlet | straight |

Insulation characteristics

| | |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution | 1 |

Electrical properties

| | |
|---------------------|----------|
| Transmission medium | Copper |
| Transmission speed | 100 Mbps |
| Transmission speed | 100 Mbps |
| Wave impedance | 100 Ω |

Mechanical properties

Mechanical data

| | |
|-------------------------------------|---------|
| Insertion/withdrawal cycles | ≥ 1000 |
| Insertion force per signal contact | 50.00 N |
| Extraction force per signal contact | 30 N |
| Max. bending cycles | 3000000 |

Material specifications

| | |
|--|--------------------------|
| Flammability rating according to UL 94 | V0 |
| Outer sheath, material | PUR |
| Conductor material | Tin-plated Cu litz wires |

Connector

Connection 1

| | |
|----------------------|--------------------|
| Type | Plug straight RJ45 |
| Shielded | yes |
| Degree of protection | IP20 |

Connection 2

| | |
|-----------------------------|--------------------|
| Type | Plug straight RJ45 |
| Shielded | yes |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |

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Cable/line

| | |
|--------------|--------|
| Cable length | 2.00 m |
|--------------|--------|

PROFINET drag chain CAT5 [93C]

| | |
|---|---|
| Dimensional drawing |  |
| UL AWM Style | 20233 (80°C/300 V) |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | PROFINET drag chain CAT5 [93C] |
| Conductor structure | 1x4xAWG22/7, SF/TQ |
| AWG signal line | 22 |
| Conductor cross-section | 4x 0.34 mm ² |
| Wire diameter incl. insulation | 1.5 mm ±0.05 mm |
| External cable diameter | 6.50 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | green RAL 6018 |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PE |
| Single wire, color | white, yellow, blue, orange |
| Overall twist | Star quad |
| Optical shield covering | 85 % |
| Insulation resistance | ≥ 500 MΩ*km |
| Loop resistance | ≤ 120.00 Ω/km |
| Wave impedance | 100 Ω ±15 Ω (at 1 ... 100 MHz) |
| Nominal voltage, cable | ≤ 300 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000.00 V (50 Hz, 1 min.) |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 7.5 x D |
| Dynamic load capacity (bending) | Max. bending cycles: 3000000, Bending radius: 200 mm, Traversing path: 10 m, Traversing rate: 4 m/s, Acceleration: 4 m/s ² |
| Dynamic load capacity (torsion) | Torsion: ±30 °/m |
| Halogen-free | according to IEC 60754-1 |
| Flame resistance | according to IEC 60332-1-2 in accordance with UN ECE-R 118.03 according to CSA C 22.2 No. 210-FT1 |

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| | |
|---------------------------------|---|
| Resistance to oil | in accordance with DIN EN 60811-404 |
| Other resistance | UV resistant |
| Special properties | Flexible cable conduit capable |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation) |
| | -40 °C ... 70 °C (Cable, flexible installation) |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|--|
| REACH candidate substance (CAS No.) | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9) |
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