

VS-IP20-IP20-93B-LI/2,0 - Network cable



1416131

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Assembled PROFINET cable, CAT5e, shielded, star quad, AWG 22 stranded (7-wire), RAL 6018 (yellow-green), RJ45 plug/IP20 on RJ45 plug/IP20, line, length: 2 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1416131 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABA |
| GTIN | 4046356474047 |
| Weight per piece (including packing) | 157.6 g |
| Weight per piece (excluding packing) | 146.788 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 | Ethernet |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Cable outlet | straight |

Insulation characteristics

| | |
|---------------------|---|
| Degree of pollution | 1 |
|---------------------|---|

Electrical properties

| | |
|---|-----------------------|
| Rated voltage (III/3) | 50 V |
| Rated current | 1.75 A |
| Transmission medium | Copper |
| Transmission speed | 100 Mbps |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |
| 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 |

Material specifications

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

Connection data

Connection technology

| | |
|-------------------|---------------------|
| Connection method | IDC fast connection |
|-------------------|---------------------|

Conductor connection

| | |
|-------------------|---------------------|
| Connection method | IDC fast connection |
|-------------------|---------------------|

Connector

Connection 1

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| | |
|----------------------|--------------------|
| 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 |

Cable/line

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

PROFINET PVC stranded CAT5 [93B]

| | |
|--|---|
| Dimensional drawing |  |
| UL AWM Style | 21695 (80 °C / 600 V) |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | PROFINET PVC stranded CAT5 [93B] |
| 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 ±0.1 mm |
| External cable diameter | 6.50 mm ±0.2 mm |
| Outer sheath, material | PVC |
| 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 | ≥ 5 GΩ*km |
| Loop resistance | ≤ 120.00 Ω/km |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Nominal voltage, cable | ≤ 600 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 | 4 x D |

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| | |
|---|--|
| Minimum bending radius, flexible installation | 8 x D |
| Flame resistance | UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) |
| | UL 1685 (CSA FT 4) |
| | UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2) |
| Resistance to oil | OIL RES I according to UL 2256 |
| Other resistance | UV resistant (according to UL 1581, Section 1200) |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -10 °C ... 70 °C (Cable, flexible installation) |

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Drawings

Circuit diagram



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Approvals

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EAC

Approval ID: 19060508

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Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | 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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