

NBC-FSDBPS/0,33-93B/R4ACR - Patch cable



1413493

<https://www.phoenixcontact.com/us/products/1413493>

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PROFINET patch cable, shielded, star quad, AWG: 22, flexible (7-wire), RAL 6018 (green), M12 flush-type female connector, rear mounting, SPEEDCON 4-pos., straight, to RJ45 connector/IP20, straight, length: 0.33 m

Your advantages

- Perfect for industrial applications
- Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- Compact angle

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1413493 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB18 |
| Product key | ABNPAB |
| GTIN | 4055626012889 |
| Weight per piece (including packing) | 60.5 g |
| Weight per piece (excluding packing) | 50.922 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|---------------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Sensor type | PROFINET |
| Number of positions | 4 |
| Shielded | yes |

Insulation characteristics

| | |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution | 3 |

Material specifications

| | |
|--|--------------------------|
| Flammability rating according to UL 94 | V2 |
| Housing material | CuZn/PA |
| Outer sheath, material | PVC |
| Conductor material | Tin-plated Cu litz wires |

Electrical properties

| | |
|---|-----------------------|
| Rated voltage (III/3) | 72 V (DC) |
| Nominal voltage U_N | 48 V |
| Nominal current I_N | 2 A |
| Transmission medium | Copper |
| Transmission speed | 100 Mbps |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

Mechanical properties

Mechanical data

| | |
|-----------------------------|------------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|------------|

Connector

Connection 1

| | |
|----------------------|--|
| Type | Flush-type female connector straight M12 |
| Locking type | SPEEDCON |
| Coding type | D |
| Degree of protection | IP65/IP67 |

Connection 2

| | |
|----------------------|------------------|
| Type | Plug angled RJ45 |
| Handle color | black |
| Degree of protection | IP20 |

Cable/line

| | |
|--------------|--------|
| Cable length | 0.33 m |
|--------------|--------|


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PROFINET PVC stranded CAT5 [93B]

| | |
|---|--|
| Dimensional drawing |  |
| Cable weight | 67 kg/km |
| UL AWM Style | 21694 |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | PROFINET PVC stranded CAT5 [93B] |
| Conductor structure | 1x4xAWG22/7, SF/TQ |
| Signal runtime | 5.3 ns/m |
| Signal speed | 0.66 c |
| Conductor structure signal line | 7x 0.25 mm |
| AWG signal line | 22 |
| Conductor cross-section | 4x 0.34 mm ² |
| Wire diameter incl. insulation | 1.55 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 |
| Thickness, outer sheath | approx. 0.90 mm |
| Overall twist | Star quad |
| Optical shield covering | 85 % |
| Insulation resistance | ≥ 500 MΩ*km |
| Coupling resistance | ≤ 20.00 mΩ/m (at 10 MHz) |
| Loop resistance | ≤ 120.00 Ω/km |
| Wave impedance | 100 Ω ±15 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 | 3 x D |
| Minimum bending radius, flexible installation | 7 x D |
| Smallest bending radius, fixed installation | 20 mm |
| Smallest bending radius, movable installation | 46 mm |
| Near end crosstalk attenuation (NEXT) | 80 dB (with 1 MHz) 76 dB (at 4 MHz) |

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| | |
|--------------------|---|
| Shield attenuation | 70 dB (at 10 MHz) |
| | 65 dB (at 16 MHz) |
| | 63 dB (at 20 MHz) |
| | 60 dB (at 31.25 MHz) |
| | 55 dB (at 62.5 MHz) |
| | 50 dB (at 100 MHz) |
| | 2.1 dB (with 1 MHz) |
| | 4 dB (at 4 MHz) |
| | 6.3 dB (at 10 MHz) |
| | 8 dB (at 16 MHz) |
| Flame resistance | 9 dB (at 20 MHz) |
| | 11.4 dB (at 31.25 MHz) |
| | 16.5 dB (at 62.5 MHz) |
| | 21.3 dB (at 100 MHz) |
| | according to UL 1685 (CSA FT 4) |
| | Resistant to oil to a limited extent |
| | UV resistant (according to UL 1581, Section 1200) |
| | -40 °C ... 70 °C (cable, fixed installation) |
| | -40 °C ... 70 °C (Cable, flexible installation) |
| | -20 °C ... 60 °C |

Environmental and real-life conditions

Ambient conditions

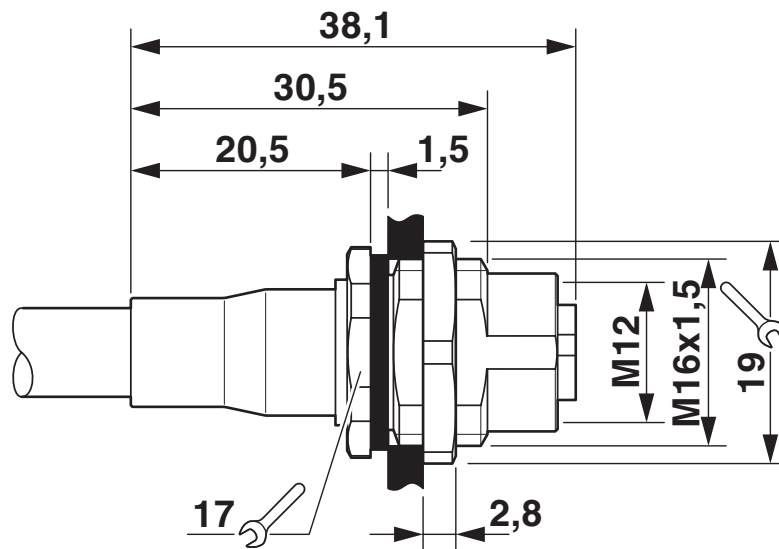
| | |
|---------------------------------|--|
| Degree of protection | IP20 (RJ45 connector) |
| | IP20 |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation) |
| | -5 °C ... 50 °C (Cable, flexible installation) |
| | -25 °C ... 80 °C (Plug / socket) |

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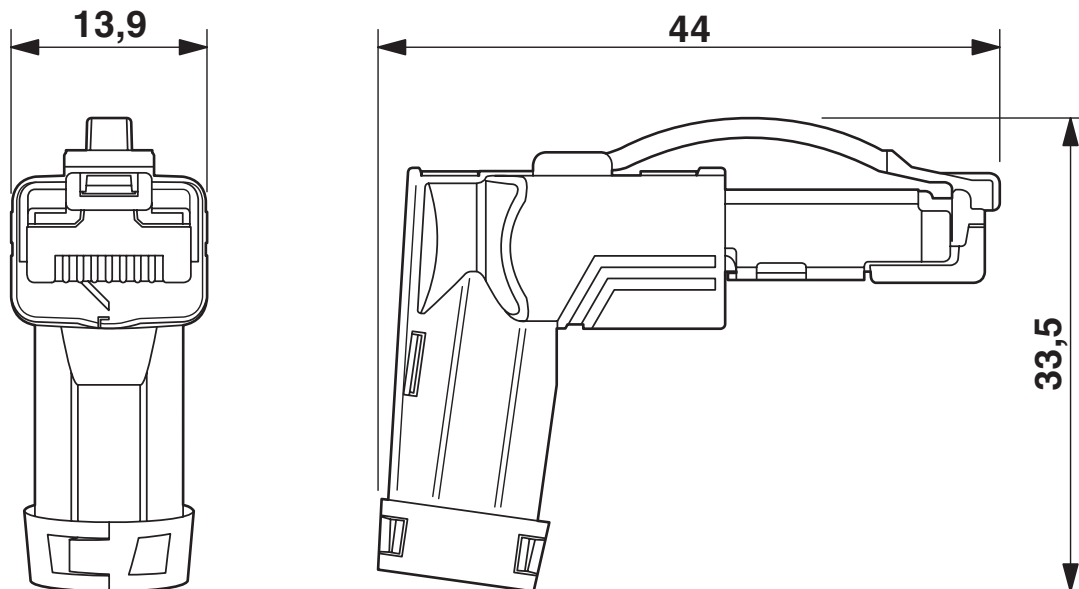
Drawings

Dimensional drawing



M12 flush-type connector

Dimensional drawing



RJ45 connector, IP20, angled

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Schematic diagram



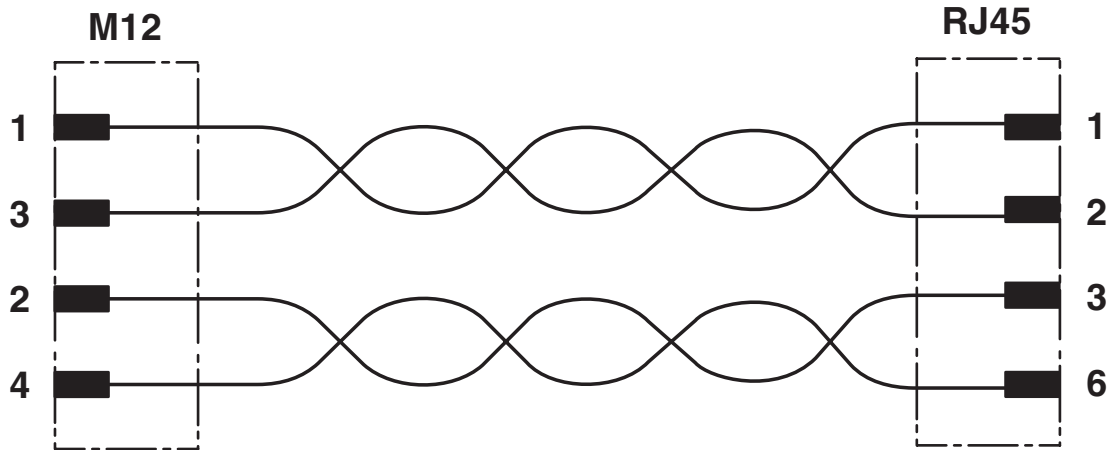
Pin assignment M12 socket, 4-pos., D-coded, female side

Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram



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Approvals

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EAC

Approval ID: 19060508

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27440103 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC003570 |
|-----------|----------|

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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