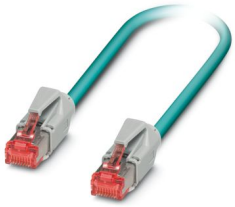
# VS-IP20-IP20-93E/3,0 - Network cable

1404352

https://www.phoenixcontact.com/us/products/1404352

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26* AWG stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP20 to RJ45 plug/IP20, line, length: 3 m

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 1404352 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABD |
| GTIN | 4046356692274 |
| Weight per piece (including packing) | 150.3 g |
| Weight per piece (excluding packing) | 141.43 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Data cable preassembled |
| Product family | RJ45 INDUSTRIAL IE4 CAT5 |
| Number of positions | 4 |
| Shielded | yes |

### Interfaces

| | |
|---|---|
| Signal type/category | Ethernet CAT5 (IEC 11801:2002), 100 Mbps |

### Electrical properties

| | |
|---|---|
| Nominal voltage $U_N$ | 48 V |
| Nominal current $I_N$ | 1 A |
| Transmission medium | Copper |
| Transmission speed | 100 Mbps |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

### Material specifications

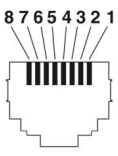
| | |
|---|---|
| Outer sheath, material | PUR |
| Conductor material | Bare Cu litz wires |

### Dimensions

| | |
|---|---|
| Width | 13 mm |
| Height | 12.9 mm |
| Length | 44.7 mm |

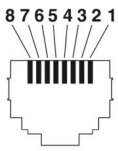
### Connector

Connection 1

| | |
|---|---|
| Dimensional drawing |  Connector pin assignment plug RJ45 |
| Type | RJ45 Plug, straight, 4-position, Ethernet |
| Number of positions | 4 |
| Signal type/category | Ethernet CAT5 (IEC 11801:2002), 100 Mbps |
| Insertion/withdrawal cycles | ≥ 750 |
| Insertion force | 30 N (per signal contact) |

| | |
|---|---|
| Withdrawal force | 50 N (per signal contact) |
| Degree of pollution | 2 |
| Material Contact | CuSn |
| Material Contact surface | Ni/Au |
| Material Contact carrier | PC |
| Material Housing | PA |
| Color (Housing) | gray |
| Flammability rating according to UL 94 | V2 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 60 °C |

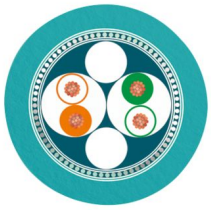
Connection 2

| | |
|---|---|
| Dimensional drawing |  Connector pin assignment plug RJ45 |
| Type | RJ45 Plug, straight, 4-position, Ethernet |
| Number of positions | 4 |
| Signal type/category | Ethernet CAT5 (IEC 11801:2002), 100 Mbps |
| Insertion/withdrawal cycles | ≥ 750 |
| Insertion force | 30 N (per signal contact) |
| Withdrawal force | 50 N (per signal contact) |
| Degree of pollution | 2 |
| Material Contact | CuSn |
| Material Contact surface | Ni/Au |
| Material Contact carrier | PC |
| Material Housing | PA |
| Color (Housing) | gray |
| Flammability rating according to UL 94 | V2 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 60 °C |

## Cable/line

| | |
|---|---|
| Cable length | 3 m |

Ethernet flexible CAT5, 2-pair [93E]

| | |
|---|---|
| Dimensional drawing |  |
| UL AWM Style | 21238 (80 °C / 600 V) |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | Ethernet flexible CAT5, 2-pair [93E] |
| Conductor structure | 2x2xAWG26/7, SF/UTP |
| AWG signal line | 26 |
| Conductor cross-section | 2x 2x 0.14 mm² |
| Wire diameter incl. insulation | 0.95 mm ±0.05 mm |
| External cable diameter | 6.40 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | Foamed PE |
| Single wire, color | white/orange-orange, white/green-green |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Two pairs with two fillers to the core |
| Optical shield covering | 70 % |
| Insulation resistance | ≥ 5 GΩ*km |
| Loop resistance | ≤ 280.00 Ω/km |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Nominal voltage, cable | ≤ 100 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 |
| Minimum bending radius, flexible installation | 8 x D |
| Smallest bending radius, fixed installation | 26 mm |
| Smallest bending radius, movable installation | 51 mm |
| Halogen-free | according to IEC 60754-1 |
| Flame resistance | according to IEC 60332-1-2 |
| | in accordance with UN ECE-R 118.03 |
| | UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) |
| | UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2) |
| Resistance to oil | in accordance with IEC 60811-404 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -30 °C ... 70 °C (Cable, flexible installation) |

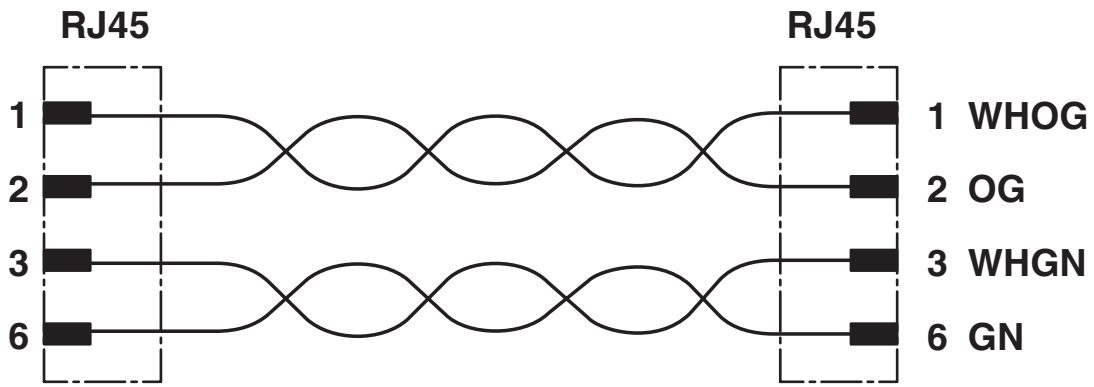
## Environmental and real-life conditions

### Ambient conditions

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

## Drawings

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1404352

EAC
Approval ID: 19060508

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002599 |

### UNSPSC

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

## 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 8.045 kg CO2e |

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