

# VS-PPC/ME-IP20-93E-LI/5,0 - Network cable



1405992

<https://www.phoenixcontact.com/us/products/1405992>

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP67 push-pull metal housing on RJ45 plug/IP20, line, length 5 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1405992                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB11                           |
| Product key                          | ABNABD                         |
| GTIN                                 | 4046356476010                  |
| Weight per piece (including packing) | 290 g                          |
| Weight per piece (excluding packing) | 280.975 g                      |
| Customs tariff number                | 85444210                       |
| Country of origin                    | PL                             |

## Technical data

### Product properties

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

### 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) |
| Transmission speed                      | 100 Mbps              |

### Mechanical properties

#### Mechanical data

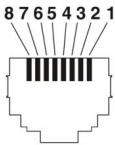
|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 200$ |
|-----------------------------|------------|

### Material specifications

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

### Connector

#### Connection 1

|                             |                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing         | <br>Connector pin assignment plug RJ45 |
| Type                        | RJ45 Plug, straight, 4-position, Push Pull                                                                                |
| Number of positions         | 4                                                                                                                         |
| Signal type/category        | Ethernet CAT5 (IEC 11801:2002), 100 Mbps                                                                                  |
| Insertion/withdrawal cycles | $\geq 200$                                                                                                                |
| Material Contact            | CuSn                                                                                                                      |
| Material Contact surface    | Ni/Au                                                                                                                     |
| Material Contact carrier    | PC                                                                                                                        |

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|                                        |                  |
|----------------------------------------|------------------|
| Material Housing                       | PA-GF            |
| Color (Housing)                        | silver-colored   |
| Flammability rating according to UL 94 | V2               |
| Degree of protection                   | IP67             |
|                                        | IP65             |
| Ambient temperature (operation)        | -40 °C ... 70 °C |

## Connection 2

|                                        |                                                                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                    |  <p>Connector pin assignment plug RJ45</p> |
| Type                                   | RJ45 Plug, straight, 4-position                                                                                             |
| 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 | 5.00 m |
|--------------|--------|

## Ethernet flexible CAT5, 2-pair [93E]

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
|---------------------|--------------------------------------------------------------------------------------|

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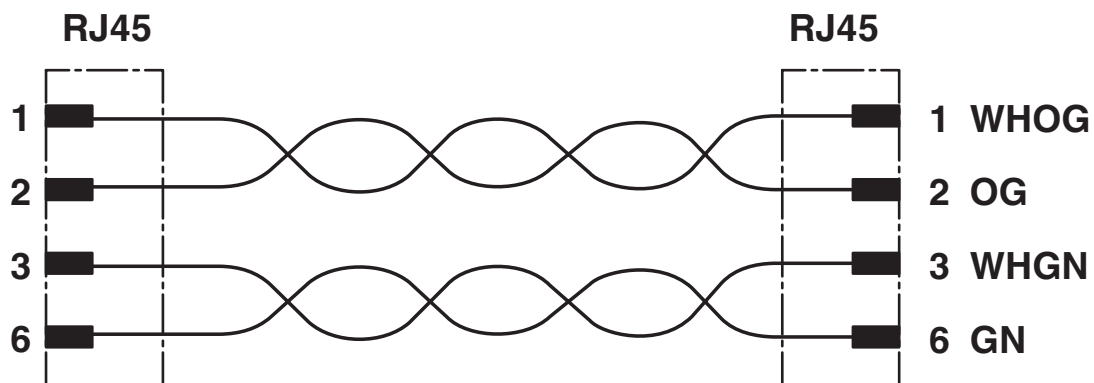
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|                                               |                                                          |
|-----------------------------------------------|----------------------------------------------------------|
| UL AWM Style                                  | 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 mm <sup>2</sup>                               |
| 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)          |

## 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 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.) | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |
| SCIP                                | 7ee71ede-9c46-4437-b822-0f6ea1e9dbf2                        |

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