

# VS-IP67-IP20-93E-LI/3,7 - Network cable



1403655

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP67, gray to RJ45 plug/IP20, line, length: 3.7 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1403655       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB11          |
| Product key                          | ABNABD        |
| GTIN                                 | 4046356662888 |
| Weight per piece (including packing) | 207.5 g       |
| Weight per piece (excluding packing) | 182.21 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 IE4 CAT5 |
| Number of positions | 4                        |
| Number of slots     | 1                        |
| Shielded            | yes                      |

### Insulation characteristics

|                     |   |
|---------------------|---|
| Degree of pollution | 2 |
|---------------------|---|

### Interfaces

|                      |                         |
|----------------------|-------------------------|
| Signal type/category | Ethernet CAT5, 100 Mbps |
|----------------------|-------------------------|

### Electrical properties

|   |                       |
|---|-----------------------|
| Transmission speed                      | 100 Mbps              |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |
| Transmission speed                      | 100 Mbps              |

### Mechanical properties

|                                       |  |
|---------------------------------------|--|
| Tensile strength short-term/long-term | 50N bei Installation / 10N nach Installation |
|---------------------------------------|--|

### Material specifications

|  |                    |
|--|--------------------|
| Flammability rating according to UL 94 | V2                 |
| Seal material                          | TPE                |
| Outer sheath, material                 | PUR                |
| Conductor material                     | Bare Cu litz wires |

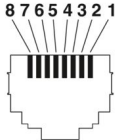
### Dimensions

#### External dimensions

|                        |        |
|------------------------|--------|
| External diameter min. | 5.6 mm |
| External diameter max. | 6.7 mm |

### Connector

#### Connection 1

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

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|  |  |
|--|--|
|  | Connector pin assignment plug RJ45               |
| Type                                   | RJ45 Plug, straight, 4-position, Snap-in locking |
| 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   |
| Color (Housing)                        | gray   |
| Flammability rating according to UL 94 | V2   |
| Degree of protection                   | IP67<br>IP65                                     |
| Ambient temperature (operation)        | -40 °C ... 60 °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  |

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## Cable/line

|              |        |
|--------------|--------|
| Cable length | 3.70 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 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<br>in accordance with UN ECE-R 118.03<br>UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) |

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

|                                 |  |
|---------------------------------|--|
| Degree of protection            | IP67/IP20                                      |
| Ambient temperature (operation) | -25 °C ... 60 °C (cable, fixed installation)   |
|                                 | -5 °C ... 60 °C (Cable, flexible installation) |

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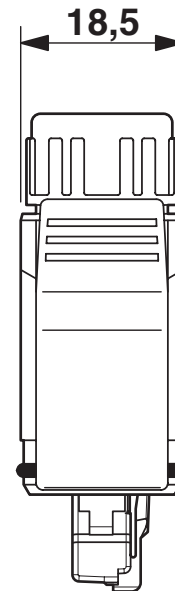
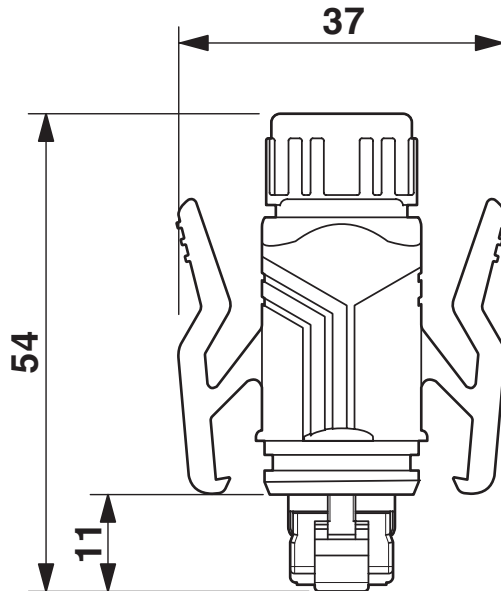


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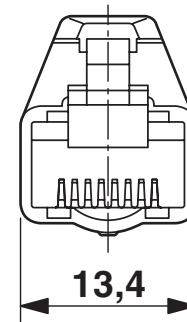
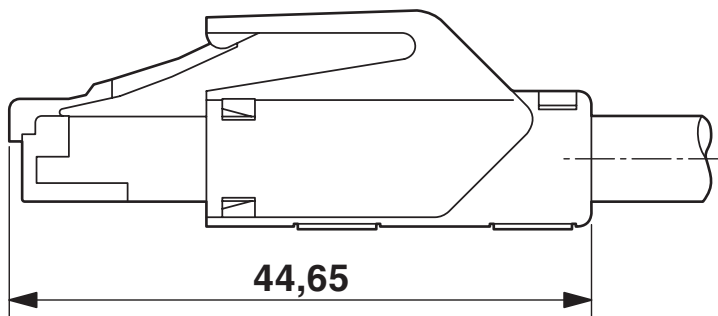
## Drawings

Dimensional drawing



Dimensional drawing

Dimensional drawing



Dimensional drawing

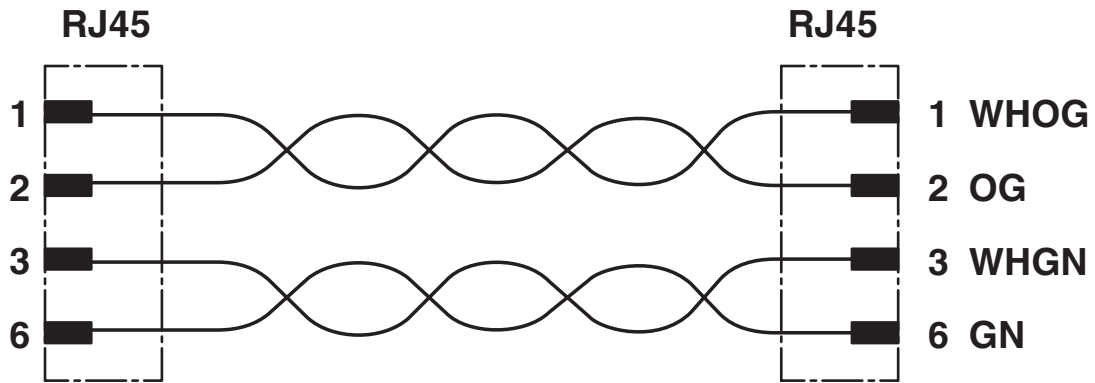
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Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1403655>



**EAC**

Approval ID: 19060508

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## Classifications

### ECLASS

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

### 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                                | 7af034dc-147a-4f40-a7ec-565d82ea421d                        |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 8.863 kg CO2e |
|---------|---------------|

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