

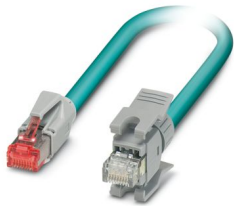
# VS-IP20-IP20/LG-94B-LI/2,5 - Network cable



1423084

<https://www.phoenixcontact.com/us/products/1423084>

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Assembled Ethernet cable, shielded, 4-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP20 to RJ45 plug/IP20 turned, line, length: 2.5 m

## Your advantages

- Can be used for RCM type B+ residual current monitoring devices

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1423084                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABNABE                         |
| GTIN                                 | 4046356566384                  |
| Weight per piece (including packing) | 146.1 g                        |
| Weight per piece (excluding packing) | 136.283 g                      |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                     |                          |
|---------------------|--------------------------|
| Product type        | Data cable preassembled  |
| Product family      | RJ45 INDUSTRIAL IE8 CAT5 |
| Sensor type         | Ethernet                 |
| Number of positions | 8                        |
| Shielded            | yes                      |

### Insulation characteristics

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

### Electrical properties

|                     |        |
|---------------------|--------|
| Transmission medium | Copper |
| Transmission speed  | 1 Gbps |
| Transmission speed  | 1 Gbps |
| Wave impedance      | 100 Ω  |

### Mechanical properties

#### Mechanical data

|                                     |         |
|-------------------------------------|---------|
| Insertion force per signal contact  | 50.00 N |
| Extraction force per signal contact | 30 N    |

### Material specifications

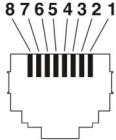
|  |                    |
|--|--------------------|
| Flammability rating according to UL 94 | V2                 |
| Outer sheath, material                 | PUR                |
| Conductor material                     | Bare Cu litz wires |

### Dimensions

|        |         |
|--------|---------|
| Width  | 13.4 mm |
| Height | 12.9 mm |
| Length | 44.7 mm |

### Connector

#### Connection 1

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

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|  |  |
|--|--|
|  | Connector pin assignment plug RJ45     |
| Type                                   | RJ45 Plug, straight, 8-position        |
| Number of positions                    | 8                                      |
| Signal type/category                   | Ethernet CAT5 (IEC 11801:2002), 1 Gbps |
| 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

|                             |                    |
|-----------------------------|--------------------|
| Type                        | Plug straight RJ45 |
| Shielded                    | yes                |
| Insertion/withdrawal cycles | ≥ 750              |
| Degree of protection        | IP20               |

## Cable/line

|              |        |
|--------------|--------|
| Cable length | 2.50 m |
|--------------|--------|

## Ethernet flexible CAT5, 4-pair [94B]

|                                 |  |
|---------------------------------|--|
| Dimensional drawing             |  |
| Cable weight                    | 47 kg/km   |
| UL AWM Style                    | 20963 (80°C/30 V)  |
| Number of positions             | 8  |
| Shielded                        | yes  |
| Cable type                      | Ethernet flexible CAT5, 4-pair [94B]   |
| Conductor structure             | 4x2xAWG26/7, SF/UTP  |
| Signal runtime                  | 5.3 ns/m   |
| Conductor structure signal line | 7x 0.16 mm   |

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|  |  |
|--|--|
| AWG signal line  | 26   |
| Conductor cross-section                                | 4x 2x 0.14 mm <sup>2</sup>   |
| Wire diameter incl. insulation                         | 0.96 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/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Thickness, outer sheath                                | 1.05 mm  |
| Twisted pairs  | 2 cores to the pair  |
| Overall twist  | 4 pairs for core   |
| Optical shield covering                                | 70 %   |
| Insulation resistance                                  | ≥ 5 GΩ*km  |
| Coupling resistance                                    | ≤ 100.00 mΩ/m (at 10 MHz)  |
| Loop resistance  | ≤ 290.00 Ω/km  |
| Wave impedance   | 100 Ω ±5 Ω (at 100 MHz)  |
| Cable capacity   | 48 nF/km (at 1 kHz)  |
| Nominal voltage, cable                                 | ≤ 100 V  |
| Test voltage Core/Core                                 | 700 V (50 Hz, 1 min.)  |
| Test voltage Core/Shield                               | 700.00 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          | 52 mm  |
| Tensile strength                                       | ≤ 100 N  |
| Near end crosstalk attenuation (NEXT)                  | 71.3 dB (with 1 MHz)   |
|  | 62.3 dB (at 4 MHz)   |
|  | 56.3 dB (at 10 MHz)  |
|  | 53.2 dB (at 16 MHz)  |
|  | 51.8 dB (at 20 MHz)  |
|  | 48.9 dB (at 31.25 MHz)   |
|  | 44.4 dB (at 62.5 MHz)  |
| Power-summated near end crosstalk attenuation (PSNEXT) | 41.3 dB (at 100 MHz)   |
|  | 62.3 dB (with 1 MHz)   |
|  | 53.3 dB (at 4 MHz)   |
|  | 47.3 dB (at 10 MHz)  |
|  | 44.2 dB (at 16 MHz)  |
|  | 42.8 dB (at 20 MHz)  |
|  | 39.9 dB (at 31.25 MHz)   |
| 35.4 dB (at 62.5 MHz)                                  |  |
| 32.3 dB (at 100 MHz)                                   |  |
|  | 23 dB (at 4 MHz)   |

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|                                    |   |
|------------------------------------|---|
| Return attenuation (RL)            | 24.1 dB (at 8 MHz)                              |
|                                    | 25 dB (at 10 MHz)                               |
|                                    | 25 dB (at 16 MHz)                               |
|                                    | 25 dB (at 20 MHz)                               |
|                                    | 23.6 dB (at 31.25 MHz)                          |
|                                    | 21.5 dB (at 62.5 MHz)                           |
|                                    | 20.1 dB (at 100 MHz)                            |
| Shield attenuation                 | 3.2 dB (with 1 MHz)                             |
|                                    | 6 dB (at 4 MHz)                                 |
|                                    | 9.5 dB (at 10 MHz)                              |
|                                    | 12.1 dB (at 16 MHz)                             |
|                                    | 13.6 dB (at 20 MHz)                             |
|                                    | 17.1 dB (at 31.25 MHz)                          |
|                                    | 24.8 dB (at 62.5 MHz)                           |
| 32 dB (at 100 MHz)                 |   |
| Halogen-free                       | according to IEC 60754-1                        |
| Flame resistance                   | according to IEC 60332-1-2                      |
| Resistance to oil                  | in accordance with EN 60811-2-1                 |
| Ambient temperature (operation)    | -40 °C ... 80 °C (cable, fixed installation)    |
|                                    | -20 °C ... 80 °C (Cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 80 °C                                |

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1423084>



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

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