

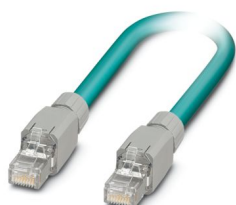
# VS-IP20-IP20-94C/10 - Network cable



1404356

<https://www.phoenixcontact.com/gb/products/1404356>

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Assembled Ethernet cable, shielded, 4-pair, 26 AWG suitable for use with drag chain (19-wire), RAL 5021 (water blue), RJ45 plug/IP20 to RJ45 plug/IP20, line, length: 10 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1404356       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | ABNABE        |
| Product key                          | ABNABE        |
| GTIN                                 | 4046356692298 |
| Weight per piece (including packing) | 593 g         |
| Weight per piece (excluding packing) | 578.344 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 IE8 CAT5 |
| Sensor type         | Ethernet                 |
| Number of positions | 8                        |
| Shielded            | yes                      |

### Electrical properties

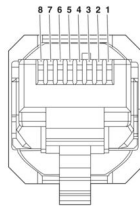
|                    |              |
|--------------------|--------------|
| Transmission speed | 1 Gbps       |
| Transmission speed | 1 Gbps       |
| Wave impedance     | 100 $\Omega$ |

### Material specifications

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

## Connector

### Connection 1

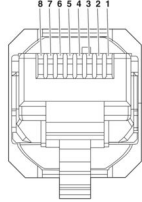
|                                        |                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                    | <br>Connector pin assignment |
| Type                                   | RJ45 Plug, straight, 8-position                                                                                  |
| Number of positions                    | 8                                                                                                                |
| Signal type/category                   | Ethernet CAT5 (IEC 11801:2002), 1 Gbps                                                                           |
| Insertion/withdrawal cycles            | $\geq 1000$                                                                                                      |
| Insertion force                        | $< 20$ N (per signal contact)                                                                                    |
| Withdrawal force                       | $< 20$ N (per signal contact)                                                                                    |
| Insulation resistance                  | $> 500$ M $\Omega$                                                                                               |
| Overvoltage category                   | I                                                                                                                |
| 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 | V0                                                                                                               |
| Degree of protection                   | IP20                                                                                                             |

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|                                        |                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------|
| Ambient temperature (operation)        | -20 °C ... 70 °C                                                                   |
| Connection 2                           |                                                                                    |
| Dimensional drawing                    |  |
|                                        | Connector pin assignment                                                           |
| Type                                   | RJ45 Plug, straight, 8-position                                                    |
| Number of positions                    | 8                                                                                  |
| Signal type/category                   | Ethernet CAT5 (IEC 11801:2002), 1 Gbps                                             |
| Insertion/withdrawal cycles            | ≥ 1000                                                                             |
| Insertion force                        | < 20 N (per signal contact)                                                        |
| Withdrawal force                       | < 20 N (per signal contact)                                                        |
| Insulation resistance                  | > 500 MΩ                                                                           |
| Overvoltage category                   | I                                                                                  |
| 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 | V0                                                                                 |
| Degree of protection                   | IP20                                                                               |
| Ambient temperature (operation)        | -20 °C ... 70 °C                                                                   |

## Cable/line

|              |         |
|--------------|---------|
| Cable length | 10.00 m |
|--------------|---------|

### Ethernet drag chain CAT5, 4-pair [94C]

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Cable weight        | 57 kg/km                                                                             |
| UL AWM Style        | 20963 (80°C/30 V)                                                                    |
| Number of positions | 8                                                                                    |
| Shielded            | yes                                                                                  |
| Cable type          | Ethernet drag chain CAT5, 4-pair [94C]                                               |

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|                                                        |                                                                                                                 |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Conductor structure                                    | 4x2xAWG26/19, S/UTP                                                                                             |
| Signal runtime                                         | 5.3 ns/m                                                                                                        |
| Conductor structure signal line                        | 19x 0.10 mm                                                                                                     |
| AWG signal line                                        | 26                                                                                                              |
| Conductor cross-section                                | 4x 2x 0.14 mm <sup>2</sup>                                                                                      |
| Wire diameter incl. insulation                         | 1 mm                                                                                                            |
| External cable diameter                                | 6.90 mm +0.1 mm ... 0.2 mm                                                                                      |
| Outer sheath, material                                 | PUR                                                                                                             |
| External sheath, color                                 | water blue RAL 5021                                                                                             |
| Conductor material                                     | Bare Cu litz wires                                                                                              |
| Material wire insulation                               | PP                                                                                                              |
| Single wire, color                                     | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown                                      |
| Thickness, outer sheath                                | 0.85 mm                                                                                                         |
| Twisted pairs                                          | 2 cores to the pair                                                                                             |
| Overall twist                                          | Four pairs and four fillers to the core                                                                         |
| Optical shield covering                                | 90 %                                                                                                            |
| Insulation resistance                                  | ≥ 500 MΩ*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                                         | approx. 50 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            | 28 mm                                                                                                           |
| Smallest bending radius, movable installation          | 56 mm                                                                                                           |
| Dynamic load capacity (bending)                        | Max. bending cycles: 5000000, Bending radius: 7,5 x D, Traversing rate: 3 m/s, Acceleration: 5 m/s <sup>2</sup> |
| Tensile strength                                       | ≤ 100 N                                                                                                         |
| Near end crosstalk attenuation (NEXT)                  | 65.3 dB (with 1 MHz)                                                                                            |
|                                                        | 56.3 dB (at 4 MHz)                                                                                              |
|                                                        | 50.3 dB (at 10 MHz)                                                                                             |
|                                                        | 47.2 dB (at 16 MHz)                                                                                             |
|                                                        | 45.8 dB (at 20 MHz)                                                                                             |
|                                                        | 42.9 dB (at 31.25 MHz)                                                                                          |
|                                                        | 38.4 dB (at 62.5 MHz)                                                                                           |
|                                                        | 35.3 dB (at 100 MHz)                                                                                            |
| Power-summated near end crosstalk attenuation (PSNEXT) | 62.3 dB (with 1 MHz)                                                                                            |
|                                                        | 53.3 dB (at 4 MHz)                                                                                              |
|                                                        | 47.3 dB (at 10 MHz)                                                                                             |
|                                                        | 44.2 dB (at 16 MHz)                                                                                             |

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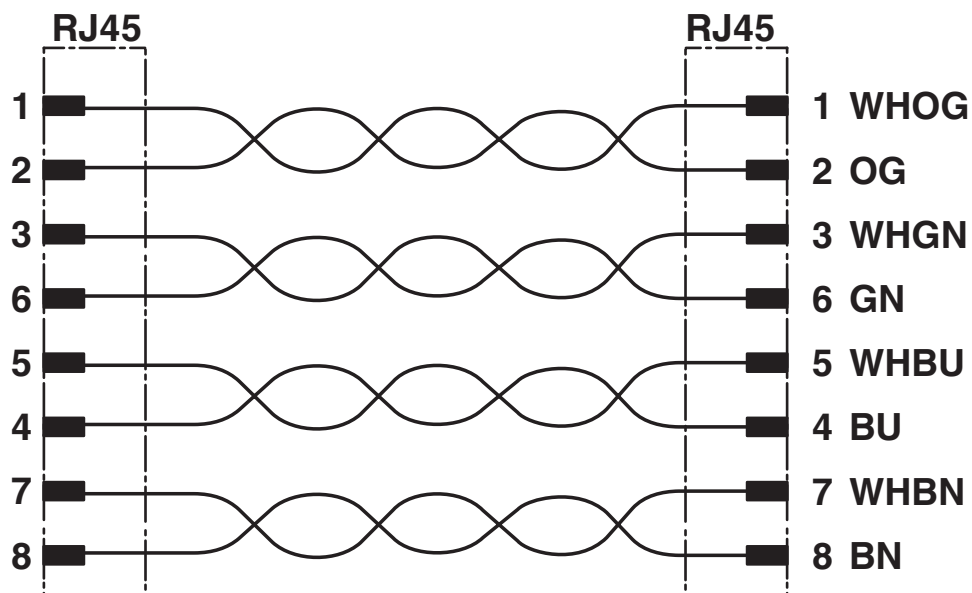
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|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
|                                    | 42.8 dB (at 20 MHz)                             |
|                                    | 39.9 dB (at 31.25 MHz)                          |
|                                    | 35.4 dB (at 62.5 MHz)                           |
|                                    | 32.3 dB (at 100 MHz)                            |
| Return attenuation (RL)            | 23 dB (at 4 MHz)                                |
|                                    | 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                                |

## Drawings

Circuit diagram



# VS-IP20-IP20-94C/10 - Network cable



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1404356>



**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.) | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9) |
| SCIP                                | 120a7283-aecc-4406-8344-6cd9996e8ead                                                 |

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PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)