

# VS-OE-OE-94A-100,0 - Data cable



1416305

<https://www.phoenixcontact.com/us/products/1416305>

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By the meter, Data cable, Ethernet CAT5 (1 Gbps), shielded, PUR halogen-free, water blue RAL 5021, 8-wire (4x2xAWG24/1, SF/UTP), color single wire: white/blue-blue, white/orange-orange, white/green-green, white/brown-brown, cable length: 100 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1416305       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF11          |
| Product key                          | AF1LFA        |
| GTIN                                 | 4046356473545 |
| Weight per piece (including packing) | 5,242 g       |
| Weight per piece (excluding packing) | 5,023 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable by the meter |
| Application         | Standard                |
| Sensor type         | Ethernet                |
| Number of positions | 8                       |
| Shielded            | yes                     |

### Electrical properties

|                     |        |
|---------------------|--------|
| Transmission medium | Copper |
| Transmission speed  | 1 Gbps |

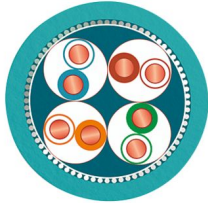
### Interfaces

|                      |                                   |
|----------------------|-----------------------------------|
| Bus system           | Ethernet                          |
| Signal type/category | Ethernet CAT5 (IEC 11801), 1 Gbps |

### Cable/line

|              |       |
|--------------|-------|
| Cable length | 100 m |
|--------------|-------|

### Ethernet [94A]

|                                 |  |
|---------------------------------|--|
| Dimensional drawing             |  |
| UL AWM Style                    | 21238 (80 °C / 600 V)  |
| Number of positions             | 8  |
| Shielded                        | yes  |
| Cable type                      | Ethernet [94A]   |
| Conductor structure             | 4x2xAWG24/1, SF/UTP  |
| Conductor structure signal line | 1x 0.51 mm   |
| AWG signal line                 | 24   |
| Conductor cross-section         | 4x 2x 0.25 mm <sup>2</sup>   |
| Wire diameter incl. insulation  | 1.02 mm ±0.03 mm   |
| External cable diameter         | 6.30 mm ±0.2 mm  |
| Outer sheath, material          | PUR  |
| External sheath, color          | water blue RAL 5021  |
| Conductor material              | Bare Cu wire   |
| Material wire insulation        | PE   |
| Single wire, color              | white/blue-blue, white/orange-orange, white/green-green,                             |

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|                                 |  |
|---------------------------------|--|
|                                 | white/brown-brown  |
| Twisted pairs                   | 2 cores to the pair  |
| Overall twist                   | 4 pairs for core   |
| Optical shield covering         | 85 %   |
| Insulation resistance           | $\geq 5 \text{ G}\Omega \cdot \text{km}$   |
| Wave impedance                  | $100 \Omega \pm 15 \Omega$ (at 1 ... 100 MHz)  |
| Nominal voltage, cable          | $\leq 600 \text{ V}$   |
| Test voltage Core/Core          | 2000 V ((50 Hz/1 min))   |
| Test voltage Core/Shield        | 2000.00 V ((50 Hz/1 min))  |
| Halogen-free                    | according to IEC 60754-1   |
| Flame resistance                | according to IEC 60332-1-2<br>UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2) |
| Resistance to oil               | in accordance with DIN EN 60811-404  |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)   |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27061801 |
| ECLASS-15.0 | 27061801 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003249 |
|-----------|----------|

### 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |                |
|---------|----------------|
| CO2e kg | 62.276 kg CO2e |
|---------|----------------|

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