

VS-OE-OE-94E-100,0 - Data cable



1416350

<https://www.phoenixcontact.com/us/products/1416350>

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By the meter, Data cable, Ethernet CAT7 (10 Gbps), shielded, FRNC halogen-free, water blue RAL 5021, 8-wire (4x2xAWG23/1, S/FTP), color single wire: white-blue, white-orange, white-green, white-brown, cable length: 100 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1416350 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF11 |
| Product key | AF1LFA |
| GTIN | 4046356474405 |
| Weight per piece (including packing) | 7,470 g |
| Weight per piece (excluding packing) | 6,572 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 | 10 Gbps |

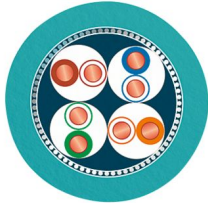
Interfaces

| | |
|----------------------|------------------------|
| Signal type/category | Ethernet CAT7, 10 Gbps |
|----------------------|------------------------|

Cable/line

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

Ethernet [94E]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Cable weight | 55 kg/km |
| Copper weight | 32.8 kg/km |
| UL AWM Style | 10797 (80°C/30 V) |
| Number of positions | 8 |
| Shielded | yes |
| Cable type | Ethernet [94E] |
| Conductor structure | 4x2xAWG23/1, S/FTP |
| Signal runtime | 5.7 ns/m |
| Signal speed | 0.6 c |
| Conductor structure signal line | 1x |
| AWG signal line | 23 |
| Conductor cross-section | 4x 2x 0.3 mm ² |
| Wire diameter incl. insulation | 1.45 mm ±0.05 mm |
| External cable diameter | 8.00 mm ±0.3 mm |
| Outer sheath, material | FRNC |
| External sheath, color | water blue RAL 5021 |

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| | |
|---|--|
| Conductor material | Bare Cu wire |
| Material wire insulation | Foamed PE |
| Single wire, color | white-blue, white-orange, white-green, white-brown |
| Twisted pairs | 2 cores to the pair |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | 4 pairs, twisted |
| Optical shield covering | 65 % |
| Max. conductor resistance | < 75 Ω/km |
| Insulation resistance | > 5 GΩ*km |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Cable capacity | < 56 nF/km |
| Cable impedance | < 5 mΩ (with 1 MHz) |
| | < 5 mΩ (at 10 MHz) |
| | < 30 mΩ (at 30 MHz) |
| | < 100 mΩ (at 100 MHz) |
| Nominal voltage, cable | 30 V AC |
| Test voltage Core/Core | 2500 V DC |
| Smallest bending radius, fixed installation | 30 mm |
| Smallest bending radius, movable installation | 60 mm |
| Tensile strength | 80 N |
| Halogen-free | According to IEC 60754-2 |
| Flame resistance | according to IEC 60332-3-24 (Cat. C) |
| Concentration of fumes | in accordance with IEC 61034 |
| Resistance to oil | according to IEC 60811-2-1 |
| Ambient temperature (operation) | -20 °C ... 80 °C (cable, fixed installation) |
| Ambient temperature (installation) | 0 °C ... 50 °C |

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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 | 61.166 kg CO2e |
|---------|----------------|

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