

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



1416350

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

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Data cable, Ethernet CAT7 (10 Gbps), 8-position, FRNC halogen-free, water blue RAL 5021, shielded (Aluminum-lined polyester foil, tinned copper braided shield), free cable end, on free cable end, 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	BF1LFA
Catalog page	Page 393 (C-2-2019)
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
Sensor type	Ethernet
Number of positions	8
Application	Standard
Shielded	yes

### Electrical properties

Transmission medium	Copper
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### Interfaces

Signal type/category	Ethernet CAT7, 10 Gbps
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### Connector

#### Connection 1

Type	free cable end
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#### Connection 2

Type	free cable end
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### Cable/line

Cable length	100 m
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### 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

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AWG signal line	23
Conductor cross section	4x 2x 0.3 mm <sup>2</sup>
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
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-11.0	27061801
ECLASS-12.0	27061801
ECLASS-13.0	27061801

### ETIM

ETIM 9.0	EC003249
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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