

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



1416347

<https://www.phoenixcontact.com/us/products/1416347>

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By the meter, Data cable, Ethernet CAT6<sub>A</sub> (10 Gbps), shielded, PUR halogen-free, water blue RAL 5021, 8-wire (4x2xAWG26/7; S/FTP), color single wire: white/blue-blue, white/orange-orange, white/green-green, white/brown-brown, cable length: 100 m

## Commercial data

Item number	1416347
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF11
Product key	AF1LFA
GTIN	4046356474832
Weight per piece (including packing)	4,681 g
Weight per piece (excluding packing)	3,954 g
Customs tariff number	85444995
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 CAT6 <sub>A</sub> , 10 Gbps
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### Cable/line

Cable length	100 m
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### Ethernet 10 Gbit [94F]

Dimensional drawing	
UL AWM Style	21238 (80 °C / 600 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet 10 Gbit [94F]
Conductor structure	4x2xAWG26/7; S/FTP
AWG signal line	26
Conductor cross-section	4x 2x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.05 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
Twisted pairs	2 cores to the pair

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Overall twist	4 pairs for core
Optical shield covering	70 %
Insulation resistance	$\geq 500 \text{ M}\Omega \cdot \text{km}$
Loop resistance	$\leq 290.00 \text{ }\Omega/\text{km}$
Wave impedance	$100 \text{ }\Omega \pm 5 \text{ }\Omega$ (at 100 MHz)
Nominal voltage, cable	$\leq 100 \text{ V}$
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 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	51 mm
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
	in accordance with UN ECE-R 118.03
	according to CSA C 22.2 No. 210-FT1
Resistance to oil	in accordance with DIN EN 60811-404
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)

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## Classifications

### ECLASS

ECLASS-13.0	27061801
ECLASS-15.0	27061801

### ETIM

ETIM 10.0	EC003249
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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### EF3.1 Climate Change

CO2e kg	73.861 kg CO2e
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