

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



1416350

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

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



1416350

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

## Technical data

### Product properties

Product type	Data cable by the meter
Application	Standard
Number of positions	8
Shielded	yes

### Electrical properties

Transmission medium	Copper
Transmission speed	10 Gbps

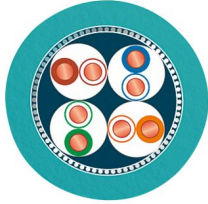
### Interfaces

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 <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

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



1416350

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

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

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



1416350

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

## Classifications

### ECLASS

ECLASS-13.0	27061801
ECLASS-15.0	27061801

### ETIM

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

### UNSPSC

UNSPSC 21.0	26121600
-------------	----------

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



1416350

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

## 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
---------	----------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)