

VS-94E/... - Data cable

1416460

<https://www.phoenixcontact.com/us/products/1416460>



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Data cable, Ethernet CAT7 (10 Gbps), 8-position halogen-free, shielded, free cable end, on free cable end

Commercial Data

Item number	1416460
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	BF17
Product Key	BF1LEA
Catalog Page	Page 393 (C-2-2019)
Customs tariff number	85444995
Country of origin	HU

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Technical Data

Product properties

Product type	Data cable by the meter
Sensor type	Ethernet
Number of positions	8
Shielded	yes

Electrical properties

Nominal voltage U_N	30 V AC
	30 V DC
Transmission medium	Copper

Interfaces

Signal type/category	Ethernet CAT7, 10 Gbps
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Connector

Connection 1

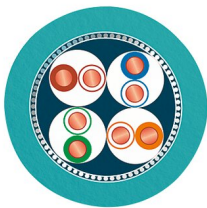
Type	free cable end
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Connection 2

Type	free cable end
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Cable/line

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 ²
Wire diameter incl. insulation	1.45 mm ±0.05 mm
External cable diameter	8 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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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1416460>



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00385

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Classifications

ECLASS

ECLASS-11.0	27061801
ECLASS-12.0	27061801
ECLASS-13.0	27061801

ETIM

ETIM 8.0	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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Accessories

VS-CABLE-STRIP-VARIO - Stripping tool

1657407

<https://www.phoenixcontact.com/us/products/1657407>

Stripping tool, for the multi-level stripping of shielded cables



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