chanhvinh.com

Network cable - VS-OE-OE-94C-100,0

1416318

https://www.phoenixcontact.com/gb/products/1416318

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.



Network cable, Ethernet CAT5 (1 Gbps), 8-position halogen-free, shielded, free cable end, on free cable end, cable length: 100 m, For drag chains

Commercial Data

Item number	1416318
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1LFA
Product Key	BF1LFA
Catalog Page	Page 393 (C-2-2019)
GTIN	4046356475617
Weight per Piece (including packing)	5,572 g
Weight per Piece (excluding packing)	5,354 g
Customs tariff number	85444995
Country of origin	DE

chanhvinh.com

Network cable - VS-OE-OE-94C-100,0

1416318

https://www.phoenixcontact.com/gb/products/1416318

Technical Data

Product properties

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

Electrical properties

Transmission medium	Copper

Interfaces

Signal type/category	Ethernet CAT5 (IEC 11801), 1 Gbps

Connector

Connection 1

Type	free cable end

Connection 2

Type	free cable end

Cable / line

Cable length	100 m
Cable weight	57 kg/km
UL AWM Style	20963 (80°C/30 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet drag chain CAT5, 4-pair [94C]
Signal runtime	5.3 ns/m
Conductor structure signal line	19x 0.10 mm
AWG signal line	26
Conductor cross section	4x 2x 0.14 mm²
Wire diameter incl. insulation	1 mm
External cable diameter	6.9 mm +0.1 mm ... 0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Thickness, outer sheath	0.85 mm
Twisted pairs	2 cores to the pair
Overall twist	Four pairs and four fillers to the core
Optical shield covering	90 %
Insulation resistance	≥ 500 MΩ*km

chanhvinh.com

Network cable - VS-OE-OE-94C-100,0

1416318

https://www.phoenixcontact.com/gb/products/1416318

Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)
Loop resistance	≤ 290.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Cable capacity	approx. 50 nF/km (at 1 kHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Max. bending cycles	5000000
Tensile strength	≤ 100 N
Near end crosstalk attenuation (NEXT)	65.3 dB (with 1 MHz)
	56.3 dB (at 4 MHz)
	50.3 dB (at 10 MHz)
	47.2 dB (at 16 MHz)
	45.8 dB (at 20 MHz)
	42.9 dB (at 31.25 MHz)
	38.4 dB (at 62.5 MHz)
	35.3 dB (at 100 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
	53.3 dB (at 4 MHz)
	47.3 dB (at 10 MHz)
	44.2 dB (at 16 MHz)
	42.8 dB (at 20 MHz)
	39.9 dB (at 31.25 MHz)
	35.4 dB (at 62.5 MHz)
	32.3 dB (at 100 MHz)
Return loss (RL)	23 dB (at 4 MHz)
	24.1 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
Shield attenuation	3.2 dB (with 1 MHz)
	6 dB (at 4 MHz)
	9.5 dB (at 10 MHz)
	12.1 dB (at 16 MHz)
	13.6 dB (at 20 MHz)
	17.1 dB (at 31.25 MHz)
	24.8 dB (at 62.5 MHz)
	32 dB (at 100 MHz)
Halogen-free	according to IEC 60754-1

chanhvinh.com

Network cable - VS-OE-OE-94C-100,0

1416318

https://www.phoenixcontact.com/gb/products/1416318

Flame resistance	according to IEC 60332-1-2
Resistance to oil	according to EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 80 °C
Signal type/category	Ethernet CAT5 (IEC 11801), 1 Gbps

chanhvinh.com

Network cable - VS-OE-OE-94C-100,0

1416318

https://www.phoenixcontact.com/gb/products/1416318

Approvals

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

chanhvinh.com

Network cable - VS-OE-OE-94C-100,0

1416318

https://www.phoenixcontact.com/gb/products/1416318

Classifications

ECLASS

ECLASS-9.0	27061801
ECLASS-10.0.1	27060390
ECLASS-11.0	27061801

ETIM

ETIM 8.0	EC003249

UNSPSC

UNSPSC 21.0	26121600

chanhvinh.com

Network cable - VS-OE-OE-94C-100,0

1416318

https://www.phoenixcontact.com/gb/products/1416318

Environmental Product Compliance

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

Phoenix Contact 2022 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk