

Network cable - VS-OE-OE-93R-100,0



1416363

<https://www.phoenixcontact.com/pc/products/1416363>

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, PROFINET CAT5 (100 Mbps), 4-position halogen-free, shielded, free cable end, on free cable end, cable length: 100 m, for robots

Network cable - VS-OE-OE-93R-100,0



1416363

<https://www.phoenixcontact.com/pc/products/1416363>

Commercial Data

Item number	1416363
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Product Key	BF1LFA
Catalog Page	Page 392 (C-2-2019)
GTIN	4046356472456
Weight per Piece (including packing)	5,665 g
Weight per Piece (excluding packing)	5,660 g
Customs tariff number	85366910
Country of origin	DE

Technical Data

Product properties

Product type	Data cable by the meter
Number of positions	4
Shielded	yes

Electrical properties

Transmission medium	Copper
---------------------	--------

Interfaces

Signal type/category	PROFINET CAT5 (IEC 11801:2002), 100 Mbps
----------------------	--

Connector

Header 1

Type	free cable end
------	----------------

Head 2

Type	free cable end
------	----------------

Cable / line

Cable length	100 m
Cable weight	55 kg/km
UL AWM Style	20233 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	PROFINET robot CAT5 [93R]
Signal runtime	4.8 ns/m
Conductor structure signal line	19x 0.15 mm
AWG signal line	22
Conductor cross section	4x 0.34 mm ²
Wire diameter incl. insulation	1.5 mm
External cable diameter	6.5 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	green RAL 6018
Conductor material	Tin-plated Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	White, yellow, blue, orange
Thickness, outer sheath	approx. 1 mm
Overall twist	Star quad
Optical shield covering	85 %
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)

Network cable - VS-OE-OE-93R-100,0



1416363

<https://www.phoenixcontact.com/pc/products/1416363>

Nominal voltage, cable	300 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	5 x D
Torsion force	± 180 °/m
Torsion cycles	1000000
Shield attenuation	2.9 dB (with 1 MHz)
	5 dB (at 4 MHz)
	8.1 dB (at 10 MHz)
	10.4 dB (at 16 MHz)
	11.9 dB (at 20 MHz)
	15.5 dB (at 31.25 MHz)
	26.5 dB (at 62.5 MHz)
	41 dB (at 100 MHz)
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	UV resistant According to UL 1581, Section 1200
Ambient temperature (operation)	-40 °C ... 80 °C
	-40 °C ... 80 °C
Ambient temperature (installation)	-20 °C ... 60 °C

Cable structure

Signal type/category	PROFINET CAT5 (IEC 11801:2002), 100 Mbps
----------------------	--

Network cable - VS-OE-OE-93R-100,0



1416363

<https://www.phoenixcontact.com/pc/products/1416363>

Approvals



EAC

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

Network cable - VS-OE-OE-93R-100,0



1416363

<https://www.phoenixcontact.com/pc/products/1416363>

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
-------------	----------

Network cable - VS-OE-OE-93R-100,0



1416363

<https://www.phoenixcontact.com/pc/products/1416363>

Environmental Product Compliance

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

Network cable - VS-OE-OE-93R-100,0



1416363

<https://www.phoenixcontact.com/pc/products/1416363>

Accessories

RJ45 connector

RJ45 connector - VS-PN-RJ45-5-Q/IP20 - 1658435

<https://www.phoenixcontact.com/pc/products/1658435>



RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, cable outlet: straight, color: traffic grey A RAL 7042, PROFINET

RJ45 connector

RJ45 connector - CUC-IND-C1ZNI-S/R4IP8 - 1421126

<https://www.phoenixcontact.com/pc/products/1421126>



RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Zinc die-cast, connection method: IDC fast connection, connection cross section: AWG 23- 22, cable outlet: straight, color: green, PROFINET

Network cable - VS-OE-OE-93R-100,0



1416363

<https://www.phoenixcontact.com/pc/products/1416363>

RJ45 connector

RJ45 connector - CUC-IND-C1ZNI-B/R4IP8 - 1421127

<https://www.phoenixcontact.com/pc/products/1421127>



RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Zinc die-cast, connection method: IDC fast connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet/PROFINET

RJ45 connector

RJ45 connector - CUC-IND-C1ZNI-T/R4IP8 - 1421128

<https://www.phoenixcontact.com/pc/products/1421128>



RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Zinc die-cast, connection method: IDC fast connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet/PROFINET

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

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com