

VS-OE-PPC/ME-93B-LI/5,0 - Network cable



1416162

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Assembled PROFINET cable, CAT5e, shielded, star quad, AWG 22 stranded (7-wire), RAL 6018 (yellow-green), free conductor end on RJ45 plug/IP67 push-pull metal housing, line, length: 5 m

Commercial data

Item number	1416162
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	ABNABA
Product key	ABNABA
GTIN	4046356474245
Weight per piece (including packing)	394 g
Weight per piece (excluding packing)	381,102 g
Customs tariff number	85444210
Country of origin	PL

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Technical data

Product properties

Product family	RJ45 INDUSTRIAL PN4 CAT5
Sensor type	PROFINET
Number of positions	4
Shielded	yes

Electrical properties

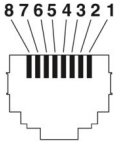
Transmission medium	Copper
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	100 Mbps
Wave impedance	100 Ω

Material specifications

Outer sheath, material	PVC
Conductor material	Tin-plated Cu litz wires

Connector

Connection 1

Dimensional drawing	 Connector pin assignment plug RJ45
Type	RJ45 Plug, straight
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps EtherCAT® CAT5 (IEC 11801)
Insertion/withdrawal cycles	≥ 750
Insulation resistance	$\geq 100 \text{ M}\Omega$
Overvoltage category	I
Degree of pollution	2
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	PA-GF
Color (Housing)	gray
Flammability rating according to UL 94	V2

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Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C

Connection 2

Type	free cable end
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Cable/line

Cable length	5.00 m
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PROFINET PVC stranded CAT5 [93B]

Dimensional drawing		
UL AWM Style	21695 (80 °C / 600 V)	
Number of positions	4	
Shielded	yes	
Cable type	PROFINET PVC stranded CAT5 [93B]	
Conductor structure	1x4xAWG22/7, SF/TQ	
AWG signal line	22	
Conductor cross-section	4x 0.34 mm ²	
Wire diameter incl. insulation	1.5 mm ±0.1 mm	
External cable diameter	6.50 mm ±0.2 mm	
Outer sheath, material	PVC	
External sheath, color	green RAL 6018	
Conductor material	Tin-plated Cu litz wires	
Material wire insulation	PE	
Single wire, color	white, yellow, blue, orange	
Overall twist	Star quad	
Optical shield covering	85 %	
Insulation resistance	≥ 5 GΩ*km	
Loop resistance	≤ 120.00 Ω/km	
Wave impedance	100 Ω ±5 Ω (at 100 MHz)	
Nominal voltage, cable	≤ 600 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	
Flame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)	
	UL 1685 (CSA FT 4)	
	UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)	

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Resistance to oil	OIL RES I according to UL 2256
Other resistance	UV resistant (according to UL 1581, Section 1200)
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-10 °C ... 70 °C (Cable, flexible installation)

Standards and regulations

Standards/specifications	IEC PAS 61076-3-117
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Approvals

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EAC

Approval ID: 19060508

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Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

ETIM 10.0	EC001855
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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.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)
SCIP	2d435581-b226-482a-a791-90a7374ba4df