VS-PNRJ45-PNRJ45R-93B-2,0 - Patch cable

1418277

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PROFINET patch cable

Patch cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PVC, green RAL 6018, Plug straight RJ45 / IP20, on Plug straight RJ45 / IP20, cable length: 2 m

Commercial data

Item number	1418277
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABA
GTIN	4046356534505
Weight per piece (including packing)	161.3 g
Weight per piece (excluding packing)	152.847 g
Customs tariff number	85444210
Country of origin	PL

Technical data

Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL PN4 CAT5
Number of positions	4
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	1

Interfaces

Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
	EtherCAT® CAT5 (IEC 11801), 100 Mbps

Electrical properties

Rated voltage (III/3)	72 V (DC)
Rated current	1.75 A
Transmission medium	Copper
Transmission speed	100 Mbps

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 750

Material specifications

Flammability rating according to UL 94	V2
Housing material	PA 6.6
Contact material	CuSn
Contact surface material	Ni/Au

Connector

Connection 1

Type	Plug straight RJ45 / IP20
Number of positions	4
Shielded	yes
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carrier)
	PA (Housing)
Degree of protection	IP20

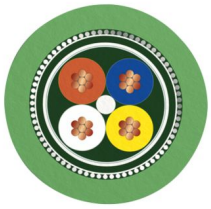
Connection 2

Type	Plug straight RJ45 / IP20
Number of positions	4
Shielded	yes
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carrier)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20

Cable/line

Cable length	2 m

PROFINET PVC stranded CAT5 [93B]

Dimensional drawing	
Note	Minimum bending radius 4 x D
Number of positions	4
Shielded	yes
Cable type	PROFINET PVC stranded CAT5 [93B]
Conductor structure	1x4xAWG22/7, SF/TQ
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Conductor cross-section	4x 0.34 mm²
Wire diameter incl. insulation	approx. 1.5 mm
External cable diameter	6.50 mm
Outer sheath, material	PVC
External sheath, color	green RAL 6018
Conductor material	Tin-plated Cu litz wires
Single wire, color	white, yellow, blue, orange
Wave impedance	100 Ω ±15 Ω (at 1 ... 100 MHz)
Smallest bending radius, fixed installation	30 mm
Smallest bending radius, movable installation	60 mm
Ambient temperature (operation)	-25 °C ... 80 °C
	-25 °C ... 80 °C

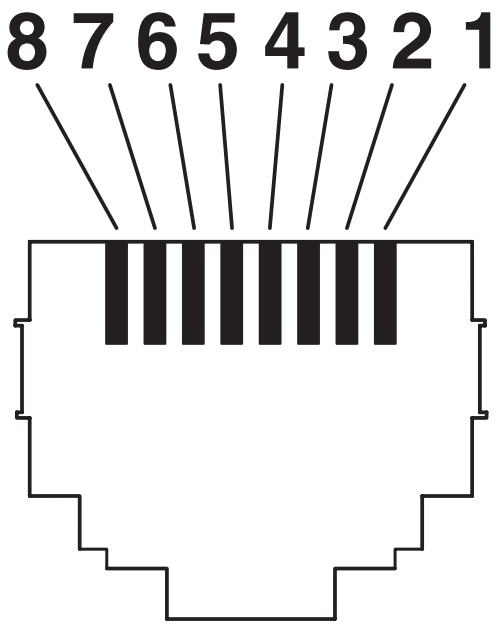
Environmental and real-life conditions

Ambient conditions

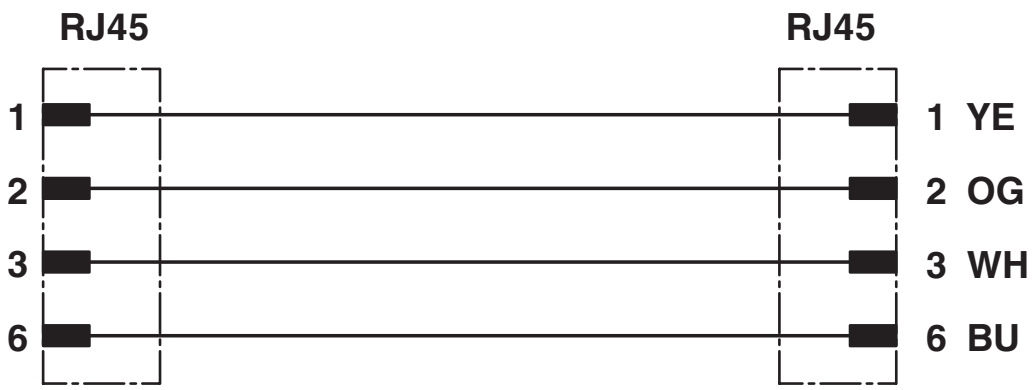
Degree of protection	IP20
	IP20
Ambient temperature (operation) (Plug)	-25 °C ... 80 °C

Drawings

Schematic diagram



Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

ETIM 10.0	EC002599

UNSPSC

UNSPSC 21.0	26121600

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%

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