

NBC-R4AC/100,0-93B/R4AC - Patch cable



1420496

<https://www.phoenixcontact.com/us/products/1420496>

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Patch cable, degree of protection: IP20, cable length: 100 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

Your advantages

- Perfect for industrial applications
- Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- Compact angle

Commercial data

Item number	1420496
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABNABA
GTIN	4055626224350
Weight per piece (including packing)	6,677 g
Weight per piece (excluding packing)	6,561.096 g
Country of origin	PL

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Technical data

Product properties

Product type	Data cable preassembled
Sensor type	PROFINET
Number of positions	4
Connection profile	RJ45 8(4)
Number of slots	1
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	1

Signaling

Status display	No
Status display present	No

Electrical properties

Rated voltage (III/3)	72 V (DC)
Nominal voltage U_N	48 V
Nominal current I_N	1 A
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	100 Mbps

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 750
Insertion force per signal contact	50.00 N
Extraction force per signal contact	30 N

Material specifications

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

Connector

Connection 1

Type	Plug straight RJ45
Shielded	yes

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Handle color	black
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 80 °C

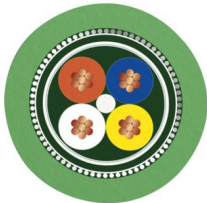
Connection 2

Type	Plug straight RJ45
Shielded	yes
Handle color	black
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 80 °C

Cable/line

Cable length	100.00 m
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PROFINET PVC stranded CAT5 [93B]

Dimensional drawing	
Note	Minimum bending radius 4 x D
Shielded	yes
Cable type	PROFINET PVC stranded CAT5
Cable type (abbreviation)	93B
Signal type/category	PROFINET CAT5 (IEC 11801:2002), 100 Mbps
Cable structure	1x4xAWG22/7, SF/TQ
External cable diameter	6.50 mm
Outer sheath, material	PVC
External sheath, color	green RAL 6018
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.25 mm
AWG signal line	22

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Conductor cross section	4x 0.34 mm ²
Wire diameter incl. insulation	approx. 1.5 mm
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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 80 °C (RJ45 connector)

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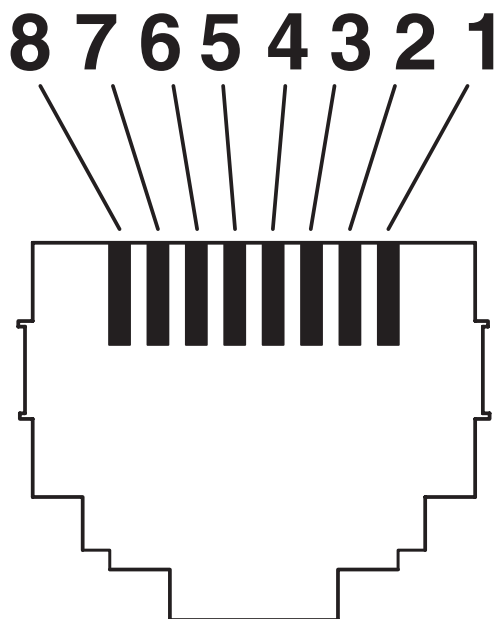
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Drawings

Schematic diagram



Connector pin assignment plug RJ45

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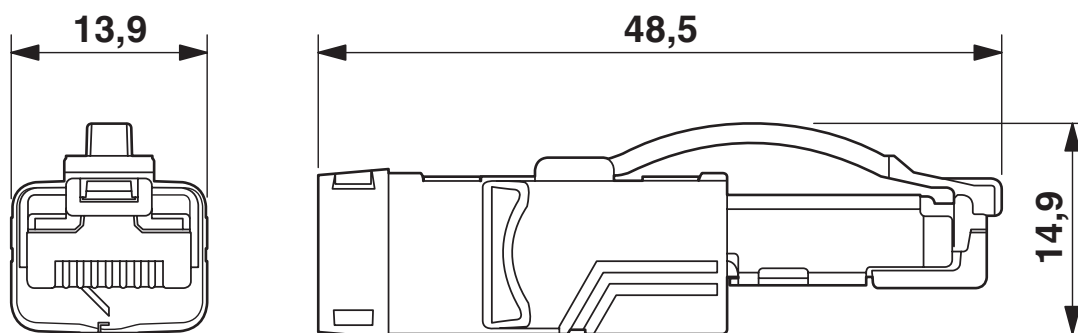
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Circuit diagram



Dimensional drawing



RJ45 connector, IP20

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Classifications

ECLASS

ECLASS-11.0	27060308
ECLASS-12.0	27060308
ECLASS-13.0	27060307

ETIM

ETIM 9.0	EC002599
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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.)	No substance above 0.1 wt%
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