

# NBC-R4AC/7,5-93M/R4AC - Patch cable



1420377

<https://www.phoenixcontact.com/us/products/1420377>

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Patch cable, degree of protection: IP20, cable length: 7.5 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET, 1x4xAWG22/7, SF/TQ, green RAL 6018

PROFINET patch cable

## 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	1420377
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABNABA
GTIN	4055626206424
Weight per piece (including packing)	507 g
Weight per piece (excluding packing)	501.696 g
Country of origin	PL

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## Technical data

### Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL PN4 CAT5
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

### Electrical properties

Rated voltage (III/3)	72 V (DC)
Rated current	1.75 A
Nominal voltage $U_N$	48 V
Nominal current $I_N$	1 A
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	100 Mbps

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 750$
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	PUR

### Connector

#### Connection 1

Type	Plug straight RJ45
Shielded	yes
Handle color	black
	CuSn (Contact)

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Material	Ni/Au (Contact surface)
	PA (Contact carrier)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20


## Connection 2

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

## Cable/line

Cable length	7.50 m
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## PROFINET stranded CAT5 [93M]

Dimensional drawing	
UL AWM Style	21238 (80 °C / 600 V)
Number of positions	4
Shielded	yes
Cable type	PROFINET stranded CAT5 [93M]
Conductor structure	1x4xAWG22/7, SF/TQ
AWG signal line	22
Conductor cross-section	4x 0.34 mm <sup>2</sup>
Wire diameter incl. insulation	1.56 mm ±0.05 mm
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PUR
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

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Optical shield covering	85 %
Insulation resistance	$\geq 500 \text{ M}\Omega \cdot \text{km}$
Loop resistance	$\leq 120.00 \text{ }\Omega/\text{km}$
Wave impedance	$100 \text{ }\Omega \pm 15 \text{ }\Omega$ (at 100 MHz)
Nominal voltage, cable	$\leq 100 \text{ V}$
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	5 x D
Minimum bending radius, flexible installation	10 x D
Halogen-free	according to IEC 60754-1
Flame resistance	according to CSA C 22.2 No. 210-FT1
Ambient temperature (operation)	-40 °C ... 80 °C -40 °C ... 80 °C (Cable, flexible installation)

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## Drawings

### Schematic diagram



Connector pin assignment plug RJ45

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Circuit diagram



Contact assignment of RJ45 plugs

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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 9.0	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.)	No substance above 0.1 wt%
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