

# NBC-R4AC/1,0-93F/R4AC - Network cable



1199413

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Network cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, CAT5e, cable outlet: straight, Ethernet, 2x2xAWG24/7, SF/UTP, turquoise

## Commercial data

Item number	1199413
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABA
GTIN	4063151261757
Weight per piece (including packing)	69.46 g
Weight per piece (excluding packing)	69.46 g
Customs tariff number	85444210
Country of origin	US

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## Technical data

### Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL PN4 CAT5
Number of positions	4
No. of cable outlets	1
Number of slots	1
Shielded	yes
Cable outlet	straight

### Interfaces

Signal type/category	Ethernet CAT5e
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### Electrical properties

Nominal voltage $U_N$	30 V AC
Nominal current $I_N$	1.5 A

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 750$
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### Material specifications

Flammability rating according to UL 94	V0
Outer sheath, material	TPE

### Connector

#### Connection 1

Type	Plug straight RJ45
Handle color	black
Material	(Contact)
	Gold (Contact surface)
	PVC (Housing)
Insertion/withdrawal cycles	$\geq 750$
Degree of protection	IP20

#### Connection 2

Type	Plug straight RJ45
Handle color	black
Material	(Contact)
	Gold (Contact surface)
	PVC (Housing)
Insertion/withdrawal cycles	$\geq 750$

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Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

## Cable/line

Cable length	1.00 m
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### Highly flexible Ethernet CAT5e [93F]

Dimensional drawing	
UL AWM Style	2463 (80 °C / 600 V)
Number of positions	4
Shielded	yes
Cable type	Highly flexible Ethernet CAT5e [93F]
Conductor structure	2x2xAWG24/7, SF/UTP
Conductor structure signal line	7x 0.20 mm (7x32)
AWG signal line	24
Conductor cross-section	2x 2x 0.2 mm <sup>2</sup>
Wire diameter incl. insulation	1.2 mm
External cable diameter	6.70 mm ±0.25 mm
Outer sheath, material	TPE
External sheath, color	turquoise
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Overall twist	2 pairs to the core
Optical shield covering	75 %
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Cable impedance	100 Ω ±15 Ω (at 1 ... 100 MHz)
Nominal voltage, cable	600 V
Test voltage	2000 V
Dynamic load capacity (bending)	Max. bending cycles: 1000000, Bending radius: 10 x D, Traversing path: 0.23 m, Traversing rate: 1.5 m/s, Acceleration: 20.5 m/s <sup>2</sup> Max. bending cycles: 20000000, Bending radius: 20 X D (126 cycles/min. at 20 °C)
Dynamic load capacity (torsion)	Torsion: 360 °/m (1 lb. load), Torsion cycles: 3000000, Torsional frequency: 71 cycles/min, Ambient temperature (operation): 20 °C
Near end crosstalk attenuation (NEXT)	50 dB (with 100 MHz (IEC 62153-4-9))

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Return attenuation (RL)	20 dB (at 10 MHz (+6LOG))
	26 dB (at 20 MHz)
	26 dB (at 100 MHz (-5LOG))
Flame resistance	VW-1
Other resistance	Resistant to welding splashes (Abrasion and oil resistance)
	UV resistant (CMX outdoor)
Ambient temperature (operation)	-40 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (RJ45 connector)
	IP20
Ambient temperature (operation)	-40 °C ... 85 °C (RJ45 connector)

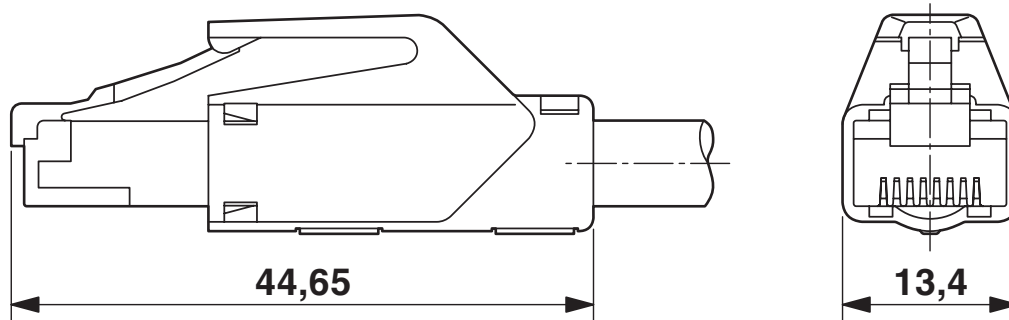
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## Drawings

Dimensional drawing



RJ45 connector, IP20

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Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram



Contact assignment of RJ45 plugs

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## Approvals

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 <b>UL Listed</b> Approval ID: File E335024				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	60 V	0.5 A	-	-

 <b>cUL Listed</b> Approval ID: File E335024				
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## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### UNSPSC

UNSPSC 21.0	39121400
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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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