NBC-R4AC/1,0-94L/R4AC - Network cable

1199426

https://www.phoenixcontact.com/us/products/1199426

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Network cable, degree of protection: IP20, cable length: 1 m, number of positions: 8, CAT5e, cable outlet: straight, Ethernet

Commercial data

Item number	1199426
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABE
GTIN	4063151261955
Weight per piece (including packing)	77.7 g
Weight per piece (excluding packing)	85 g
Customs tariff number	85444290
Country of origin	US

Technical data

Product properties

Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	8
No. of cable outlets	1
Number of slots	1
Shielded	yes
Cable outlet	straight

Signaling

Status display	No
Status display present	No

Electrical properties

Nominal voltage U_N	30 V AC
Nominal current I_N	1.5 A
Transmission medium	Copper

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 750

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	≥ 750
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

Connection 2

Type	Plug straight RJ45
Handle color	black
	(Contact)

Material	Gold (Contact surface)
	PVC (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

Cable/line

Cable length	1.00 m

Highly flexible Ethernet CAT5e [94L]

Dimensional drawing	
Shielded	yes
UL AWM Style	2463 (80 °C / 600 V)
Cable type	Highly flexible Ethernet CAT5e
Cable type (abbreviation)	94L
Signal type/category	Ethernet CAT5e (TIA 568B)
Cable structure	4x2xAWG24/7; SF/UTP
External cable diameter	7.40 mm ±0.25 mm
Outer sheath, material	TPE
External sheath, color	turquoise
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.20 mm (7x32)
AWG signal line	24
Conductor cross section	4x 2x 0.2 mm²
Material wire insulation	PE
Wire diameter incl. insulation	1.2 mm
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Shielding	Aluminum-lined polyester foil, tinned copper braided shield
Optical shield covering	75 %
Nominal voltage, cable	600 V
Test voltage, cable	2000 V
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Cable impedance	100 Ω ±15 Ω (at 1 ... 100 MHz)
Number of bending cycles	1000000

Minimum bending radius, drag chain applications	10 x D
Traversing path	0.23 m
Traversing rate	1.5 m/s
Acceleration	20.5 m/s²
Number of bending cycles	10000000
Minimum bending radius, drag chain applications	20 X D
Torsion force	360 °/m (1 lb. load)
Torsion cycles	4800000
Torsional frequency	71 (cycles/min)
Ambient temperature (operation)	20 °C
Near end crosstalk attenuation (NEXT)	50 dB (with 100 MHz (IEC 62153-4-9))
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)

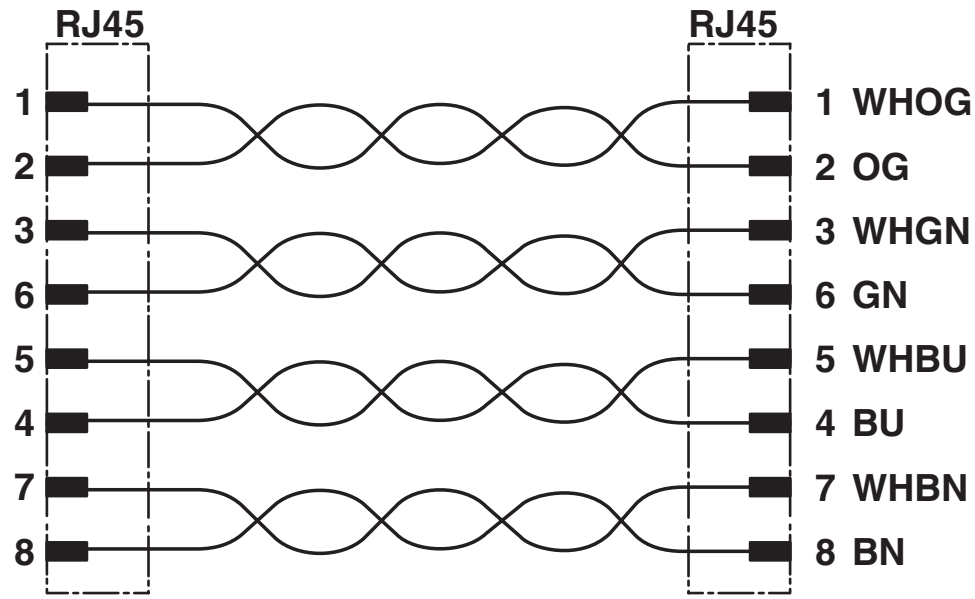
Environmental and real-life conditions

Ambient conditions

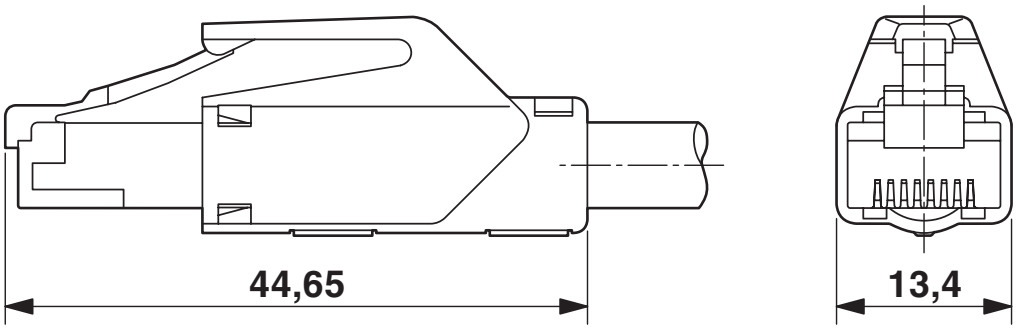
Degree of protection	IP20 (RJ45 connector)
	IP20
Ambient temperature (operation)	-40 °C ... 85 °C (RJ45 connector)

Drawings

Circuit diagram

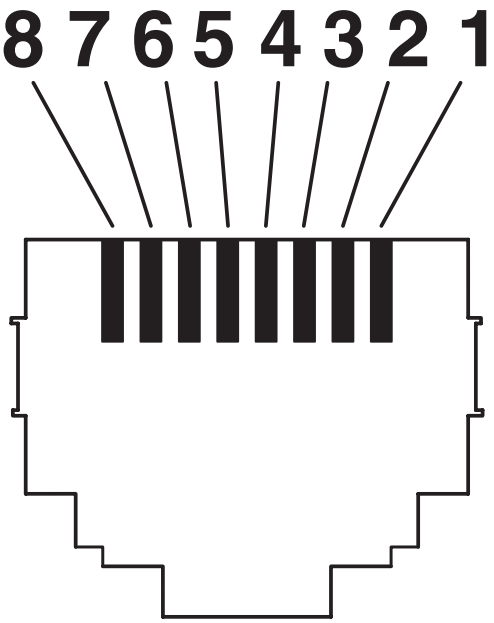


Dimensional drawing



RJ45 connector, IP20

Schematic diagram



Connector pin assignment plug RJ45

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1199426

UL Listed
Approval ID: File E335024

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	0.5 A	-	-

cUL Listed
Approval ID: File E335024

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	0.5 A	-	-

cULus Listed

Classifications

ECLASS

ECLASS-11.0	27469090
ECLASS-12.0	27469090
ECLASS-13.0	27469090

ETIM

ETIM 9.0	EC002943

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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