

NBC-100,0-94H - Network cable



1474283

<https://www.phoenixcontact.com/us/products/1474283>

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By the meter, Network cable, Ethernet hybrid CAT5 (100 Mbps), shielded, PUR halogen-free, black RAL 9005, 8-wire (1x4x AWG 26+1x4x AWG 18), color single wire: white/orange, orange, white/green, green, white, blue, brown, black, cable length: 100 m, Power with Ethernet (PWE)

Commercial data

Item number	1474283
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF11
Product key	AF1LFA
GTIN	4063151885960
Weight per piece (including packing)	10,965 g
Weight per piece (excluding packing)	10,965 g
Customs tariff number	85444995
Country of origin	AT

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Technical data

Product properties

Product type	Data cable by the meter
Number of positions	8
Shielded	yes

Electrical properties

Transmission medium	Copper
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)


Interfaces

Bus system	Ethernet
Signal type/category	Ethernet hybrid CAT5 (IEC 11801), 100 Mbps

Cable/line

Cable length	100 m
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Ethernet hybrid [94H]

Dimensional drawing	
UL AWM Style	20233 (80°C/300 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet hybrid [94H]
Conductor structure	1x4x AWG 26+1x4x AWG 18
AWG signal line	26
AWG power supply	18
Conductor cross-section	4x 0.15 mm ² (Data) 4x 0.85 mm ² (Power)
Wire diameter incl. insulation	1.03 mm ±0.02 mm (Data) 1.6 mm ±0.1 mm (Power)
External cable diameter	8.80 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PP (Data)

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	PP (Power)
Single wire, color	white/orange, orange, white/green, green, white, blue, brown, black
Overall twist	1 star quad and 4 wires with 2 fillers
Optical shield covering	85 %
Insulation resistance	$\geq 5 \text{ G}\Omega\cdot\text{km}$
Loop resistance	$\leq 280.00 \text{ }\Omega/\text{km}$ (Data) $\leq 45.00 \text{ }\Omega/\text{km}$ (Power)
Wave impedance	$100 \text{ }\Omega \pm 5 \text{ }\Omega$ (at 100 MHz)
Differential impedance	$100 \text{ }\Omega \pm 5 \text{ }\%$ (at 100 MHz)
Nominal voltage, cable	$\leq 125 \text{ V}$ (Peak value, not for high-power applications)
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	4 x D
Minimum bending radius, flexible installation	8 x D
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 15 x D, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s ² , Ambient temperature: -20 °C ... 60 °C
Shield attenuation	$\geq 80.00 \text{ dB}$ (30 MHz ... 100 MHz)
Halogen-free	according to IEC 60754-1
Flame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) IEC 60332-1-2
Resistance to oil	in accordance with IEC 60811-404 According to DIN EN 50363-10-2
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -30 °C ... 70 °C (Cable, flexible installation) -20 °C ... 60 °C (for installation) -20 °C ... 60 °C (cable, drag chain applications)

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Classifications

ECLASS

ECLASS-15.0	27061801
ECLASS-13.0	27061801

ETIM

ETIM 10.0	EC003249
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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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EF3.1 Climate Change

CO2e kg	183.216 kg CO2e
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