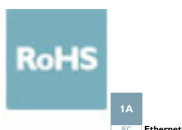


## Network cable - NBC-R4RC/1,0-94B/R4RC - 1408961


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Assembled Ethernet cable, shielded, 4-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), RJ45 plug/ IP67 push/pull metal housing to RJ45 plug/IP67 push/pull metal housing, line, length: 1 m



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 856898
GTIN	4046356856898

### Technical data

#### Dimensions

Length of cable	1.00 m
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#### Ambient conditions

Degree of protection	IP67 (RJ45 connector)
Ambient temperature (operation)	-40 °C ... 70 °C (RJ45 connector)

#### General data

Rated current at 40°C	1 A
Rated voltage	48 V
Number of positions	8
Standards/regulations	IEC PAS 61076-3-117
Degree of pollution	2
Alternative short product description	Ethernet cable
Locking type	Push Pull
Rated voltage (III/3)	72 V (DC)
Degree of protection	IP65/IP67
Number of slots	1
Transmission characteristics (category)	CAT5

# Network cable - NBC-R4RC/1,0-94B/R4RC - 1408961

## Technical data

### Characteristics head 1

Color	silver
Material (component)	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	Zinc die-cast, nickel-plated (Housing)
Insertion/withdrawal cycles	≥ 750
Ambient temperature (operation)	-40 °C ... 70 °C
Shielded	yes
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021

### Characteristics head 2

Color	silver
Material (component)	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	Zinc die-cast, nickel-plated (Housing)
Insertion/withdrawal cycles	≥ 750
Ambient temperature (operation)	-40 °C ... 70 °C

### Standards and Regulations

Standards/specifications	IEC PAS 61076-3-117
Flammability rating according to UL 94	V2

### Cable

Cable type	Ethernet flexible CAT5, 4-pair
Cable type (abbreviation)	94B
UL AWM style	20963 (80°C/30 V)
Signal type/category	Ethernet CAT5 (IEC 11801), 1 Gbps
Cable structure	4x2xAWG26/7; SF/UTP
Conductor cross section	4x 2x 0.14 mm <sup>2</sup>
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	0.96 mm
Wire colors	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-coated foil, tinned copper braided shield
Optical shield covering	70 %
External sheath, color	water blue RAL 5021
Outer sheath thickness	1.05 mm
External cable diameter D	6.4 mm ±0.2 mm

# Network cable - NBC-R4RC/1,0-94B/R4RC - 1408961

## Technical data

### Cable

Minimum bending radius, fixed installation	4 x D	
Minimum bending radius, flexible installation	8 x D	
Tensile strength GRP	≤ 100 N	
Cable weight	47 kg/km	
Outer sheath, material	PUR	
Material conductor insulation	Foamed PE	
Conductor material	Bare Cu litz wires	
Insulation resistance	≥ 500 MΩ*km	
Loop resistance	≤ 290.00 Ω/km	
Cable capacity	48 nF/km (at 1 kHz)	
Wave impedance	100 Ω ±5 Ω (at 100 MHz)	
Near end crosstalk attenuation (NEXT)	71.3 dB (with 1 MHz)	
	62.3 dB (at 4 MHz)	
	56.3 dB (at 10 MHz)	
	53.2 dB (at 16 MHz)	
	51.8 dB (at 20 MHz)	
	48.9 dB (at 31.25 MHz)	
	44.4 dB (at 62.5 MHz)	
	41.3 dB (at 100 MHz)	
	Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
		53.3 dB (at 4 MHz)
47.3 dB (at 10 MHz)		
44.2 dB (at 16 MHz)		
42.8 dB (at 20 MHz)		
39.9 dB (at 31.25 MHz)		
35.4 dB (at 62.5 MHz)		
32.3 dB (at 100 MHz)		
Attenuation	3.2 dB (with 1 MHz)	
	6 dB (at 4 MHz)	
	9.5 dB (at 10 MHz)	
	12.1 dB (at 16 MHz)	
	13.6 dB (at 20 MHz)	
	17.1 dB (at 31.25 MHz)	
	24.8 dB (at 62.5 MHz)	
	32 dB (at 100 MHz)	
	Return loss (RL)	23 dB (at 4 MHz)
		24.1 dB (at 8 MHz)
25 dB (at 10 MHz)		
25 dB (at 16 MHz)		
25 dB (at 20 MHz)		

## Network cable - NBC-R4RC/1,0-94B/R4RC - 1408961

### Technical data

#### Cable

	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
Signal runtime	5.3 ns/m
Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Flame resistance	according to IEC 60332-1-2
Halogen-free	according to IEC 60754-1
Resistance to oil	according to EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 80 °C
Ambient temperature (storage/transport)	-20 °C ... 80 °C

#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

## Network cable - NBC-R4RC/1,0-94B/R4RC - 1408961

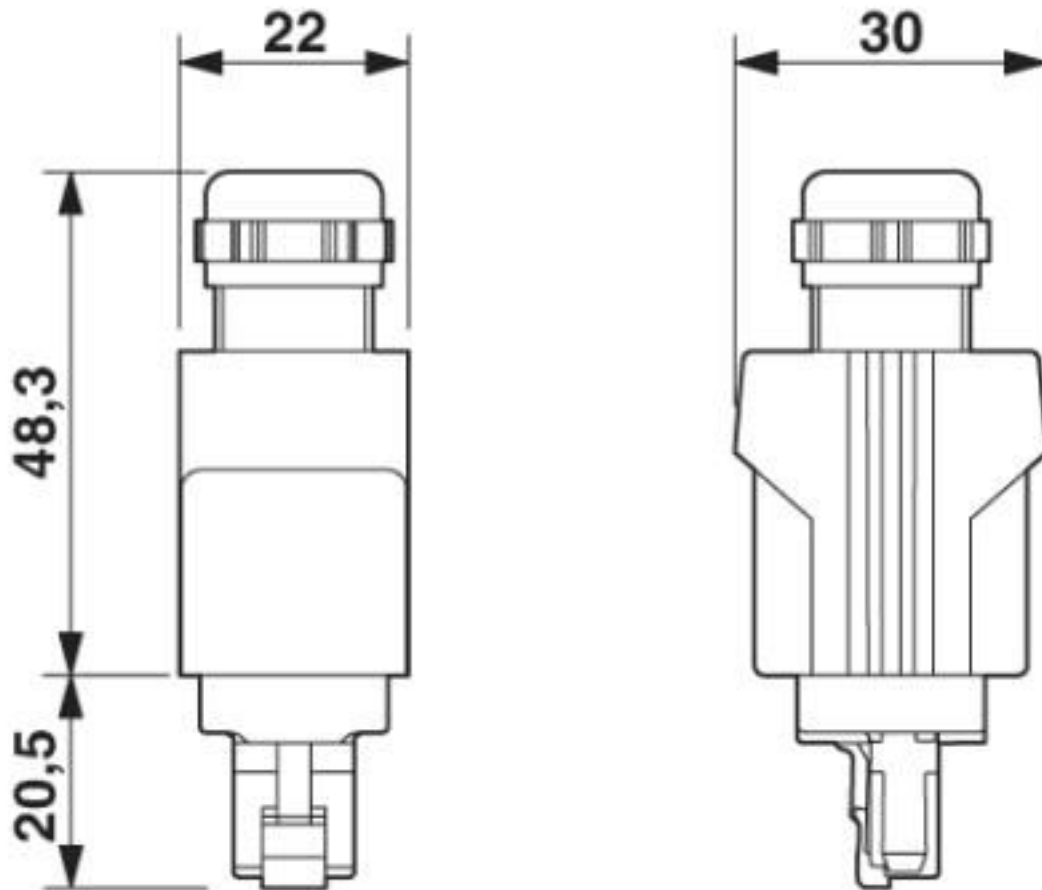
Schematic diagram



Connector pin assignment plug RJ45

## Network cable - NBC-R4RC/1,0-94B/R4RC - 1408961

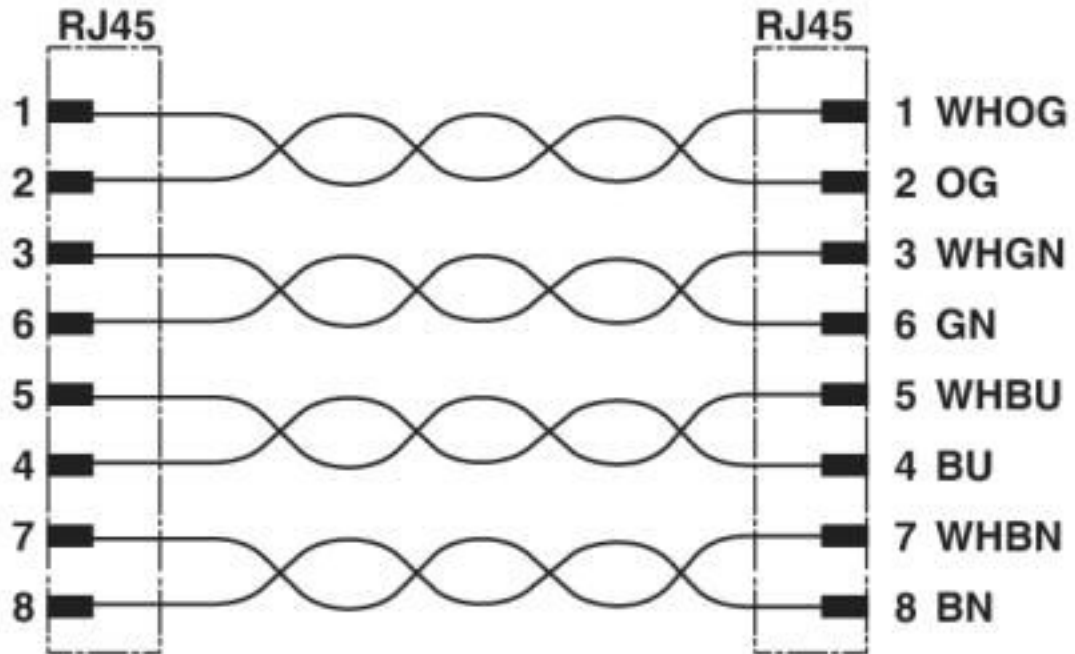
Dimensional drawing



RJ45 Push-Pull connector, IP67

# Network cable - NBC-R4RC/1,0-94B/R4RC - 1408961

Circuit diagram



Contact assignment of RJ45 plugs

# Network cable - NBC-R4RC/1,0-94B/R4RC - 1408961

Cable cross section



Ethernet flexible CAT5, 4-pair [94B]

## Classifications

eCl@ss

eCl@ss 10.0.1	27060308
eCl@ss 4.0	24010400
eCl@ss 4.1	24010400
eCl@ss 5.0	19030300
eCl@ss 5.1	19030300
eCl@ss 6.0	27061800
eCl@ss 7.0	27060308
eCl@ss 8.0	27060308
eCl@ss 9.0	27060308



# Network cable - NBC-R4RC/1,0-94B/R4RC - 1408961

## Classifications

### ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC002599
ETIM 6.0	EC001262
ETIM 7.0	EC001262

### UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	31261501
UNSPSC 13.2	26121604
UNSPSC 18.0	26121604
UNSPSC 19.0	26121604
UNSPSC 20.0	26121604
UNSPSC 21.0	26121604

## Approvals

### Approvals

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### Approvals

### EAC

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### Ex Approvals

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### Approval details

EAC		19060508
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