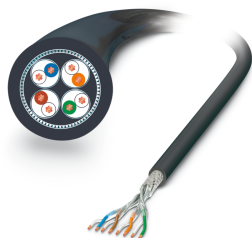


Network cable - NBC-100,0-94S - 1423514

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By the meter, Network cable, Ethernet CAT7 (10 Gbps), shielded, PE-X halogen-free, black, 8-wire (4x2xAWG26/7; S/FTP), color single wire: White-blue, white-orange, white-green, white-brown, cable length: 100 m, For railway applications



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626346007

Technical data

Dimensions

Length of cable	100 m
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General data

Rated voltage	30 V AC
	30 V DC
Number of positions	8
Signal type/category	Ethernet CAT7, 10 Gbps
Transmission characteristics (category)	CAT7
Transmission speed	10 Gbps

Cable

Cable type	Ethernet BETAtrans [®] railway application CAT7
Cable type (abbreviation)	94S
Signal type/category	Ethernet CAT7, 10 Gbps
Cable structure	4x2xAWG26/7; S/FTP
Conductor cross section	4x 2x 0.14 mm ²
AWG signal line	26
Conductor structure signal line	7x 0.16 mm

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Technical data

Cable

Core diameter including insulation	1.05 mm ±0.1 mm
Wire colors	White-blue, white-orange, white-green, white-brown
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	4 pairs, twisted
Shielding	Tinned copper braided shield
External sheath, color	black
External cable diameter D	6.6 mm ±0.2 mm
Minimum bending radius, fixed installation	6 x D
Tensile strength GRP	≤ 60 N (temporary)
	≤ 15 N (Permanent)
Cable weight	59 kg/km
Copper weight	28 kg/km
Outer sheath, material	PE-X
Material conductor insulation	Cell PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 5 GΩ*km
Conductor resistance	≤ 145 Ω/km
Working capacitance	44 nF (per kilometer)
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Near end crosstalk attenuation (NEXT)	100 dB (with 1 MHz)
	99 dB (at 10 MHz)
	95 dB (at 100 MHz)
	92 dB (at 200 MHz)
	90 dB (at 250 MHz)
	83 dB (at 500 MHz)
	81 dB (at 600 MHz)
	80 dB (at 700 MHz)
	77 dB (at 800 MHz)
	75 dB (at 900 MHz)
	74 dB (at 1000 MHz)
	72 dB (at 1100 MHz)
	70 dB (at 1200 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	97 dB (with 1 MHz)
	96 dB (at 10 MHz)
	92 dB (at 100 MHz)
	89 dB (at 200 MHz)
	87 dB (at 250 MHz)
	80 dB (at 500 MHz)
	78 dB (at 600 MHz)

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Technical data

Cable

	77 dB (at 700 MHz)
	74 dB (at 800 MHz)
	72 dB (at 900 MHz)
	71 dB (at 1000 MHz)
	69 dB (at 1100 MHz)
	67 dB (at 1200 MHz)
Attenuation	0.25 dB (with 1 MHz)
	0.76 dB (at 10 MHz)
	2.49 dB (at 100 MHz)
	3.69 dB (at 200 MHz)
	4.18 dB (at 250 MHz)
	5.6 dB (at 500 MHz)
	6.74 dB (at 600 MHz)
	7.32 dB (at 700 MHz)
	7.89 dB (at 800 MHz)
	8.5 dB (at 900 MHz)
	9.11 dB (at 1000 MHz)
	9.5 dB (at 1100 MHz)
	9.9 dB (at 1200 MHz)
Return loss (RL)	24 dB (with 1 MHz)
	33.9 dB (at 10 MHz)
	38.3 dB (at 100 MHz)
	35.3 dB (at 200 MHz)
	32.9 dB (at 250 MHz)
	29.7 dB (at 500 MHz)
	30.6 dB (at 600 MHz)
	31 dB (at 700 MHz)
	26.7 dB (at 800 MHz)
	28.6 dB (at 900 MHz)
	27.5 dB (at 1000 MHz)
	26.9 dB (at 1100 MHz)
	26.3 dB (at 1200 MHz)
Crosstalk attenuation (ACR)	100 dB (with 1 MHz)
	99 dB (at 10 MHz)
	93 dB (at 100 MHz)
	88 dB (at 200 MHz)
	86 dB (at 250 MHz)
	78 dB (at 500 MHz)
	74 dB (at 600 MHz)
	72 dB (at 700 MHz)

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Technical data

Cable

	69 dB (at 800 MHz)
	67 dB (at 900 MHz)
	65 dB (at 1000 MHz)
	63 dB (at 1100 MHz)
	61 dB (at 1200 MHz)
Power-summated crosstalk attenuation (PS-ACR)	97 dB (with 1 MHz)
	96 dB (at 10 MHz)
	90 dB (at 100 MHz)
	85 dB (at 200 MHz)
	83 dB (at 250 MHz)
	75 dB (at 500 MHz)
	71 dB (at 600 MHz)
	69 dB (at 700 MHz)
	66 dB (at 800 MHz)
	64 dB (at 900 MHz)
	62 dB (at 1000 MHz)
	60 dB (at 1100 MHz)
	58 dB (at 1200 MHz)
Signal speed	0.78 c
Signal runtime	4.4 ns/m
Shield attenuation	60 dB (up to 1000 MHz)
Interference suppression	90 dB (up to 1000 MHz)
Coupling resistance	5.00 mΩ/m (at 10 MHz)
Nominal voltage, cable	125 V AC (U ₀)
Test voltage Core/Core	1000 V AC (50 Hz, 1 min.)
Test voltage Core/Shield	1000 V AC (50 Hz, 1 min.)
Special properties	HL1-HL3
Fire protection in rail vehicles	BS 6853 (Internal cable Ia, Ib, II/external cable Ia, Ib, II)
	DIN 5510-2 (Fire protection level 1, 2, 3, 4)
	EN 45545-2
	EN 50306-4
	NF F16-101 (Classification C/F1)
	NF F16-101 (Internal cable A1, A2, B/external cable A1, A2, B)
	NFPA 130
	PN-K-02511 (Class A)
	UIC 564-2 (Class A)
Flame resistance	according to EN 60332-1-2
	EN 60332-3-25
	according to ISO 14572 5.21 (UN ECE-R 118.01)
Halogen-free	According to EN 50267-2-1

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Technical data

Cable

	according to EN 60684-2
Resistance to oil	according to EN 60684-2, 72 h at 100 °C, IRM 902
Other resistance	Resistant to fuel according to EN 60684-2, 72 h at 100 °C, IRM 903
	Resistant to ozone according to EN 50306-4, 72 h at 40 °C, procedure B, volume concentration 200×10^{-6}
Concentration of fumes	EN 61034-2
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
Shielded	yes

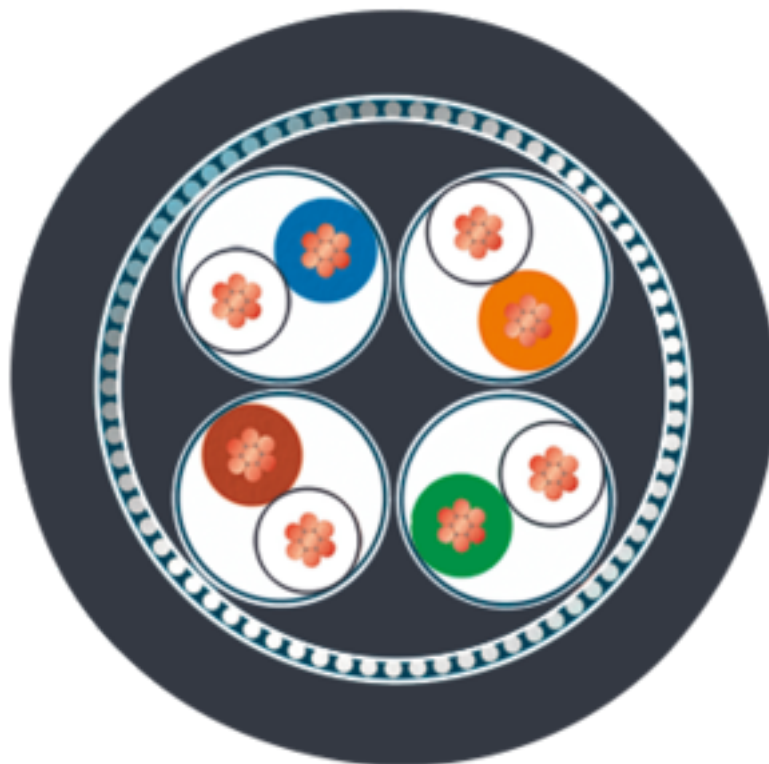
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

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Cable cross section



Ethernet BETAtrans[®] railway application CAT7 [94S]

Classifications

eCl@ss

eCl@ss 10.0.1	27060390
eCl@ss 11.0	27061801
eCl@ss 5.1	27061801
eCl@ss 7.0	27060308
eCl@ss 9.0	27061801

ETIM

ETIM 6.0	EC000830
ETIM 7.0	EC003249

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Classifications

UNSPSC

UNSPSC 18.0	26121604
UNSPSC 19.0	26121604
UNSPSC 20.0	26121604
UNSPSC 21.0	26121600

Approvals


Approvals

Approvals

EAC-RoHS / EAC

Ex Approvals

Approval details

EAC-RoHS		RU D- DE.HB35.B.00371
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EAC		RU C- DE.BL08.B.00286
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