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Assembled Ethernet cable, CAT6, shielded, 4-pair, 26 AWG* stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP67 (black) to RJ45 plug/IP67 (black), line, length: 3 m



Key Commercial Data

Packing unit	1
GTIN	4 046356 692311
GTIN	4046356692311
Custom tariff number	85444210

Technical data

Dimensions

Length of cable	3.00 m
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Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-25 °C 60 °C (cable, fixed installation)
	-10 °C 50 °C (cable, flexible installation)

General data

Number of positions	8
Degree of pollution	2
Alternative short product description	Ethernet cable
Insertion/withdrawal cycles	≥ 750
Number of slots	1
Transmission characteristics (category)	CAT6



Technical data

Standards and Regulations

Flammability rating according to UL 94	V2		
Cable	•		
Cable type	Ethernet 10 Gbit		
Cable type (abbreviation)	94F		
UL AWM style	20963 (80°C/30 V)		
Signal type/category	Ethernet CAT6 _A , 10 Gbps		
Cable structure	4x2xAWG26/7; S/FTP		
Conductor cross section	4x 2x 0.14 mm²		
AWG signal line	26		
Conductor structure signal line	7x 0.16 mm		
Core diameter including insulation	1.04 mm		
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown		
Twisted pairs	2 cores to the pair		
Type of pair shielding	Aluminum-lined foil		
Overall twist	4 pairs for core		
Shielding	Tinned copper braided shield		
Optical shield covering	70 %		
External sheath, color	water blue RAL 5021		
Outer sheath thickness	0.65 mm		
External cable diameter D	6.4 mm ±0.2 mm		
Minimum bending radius, fixed installation	4 x D		
Minimum bending radius, flexible installation	8 x D		
Tensile strength GRP	≤ 100 N		
Cable weight	42 kg/km		
Outer sheath, material	PUR		
Material conductor insulation	Foamed PE		
Conductor material	Bare Cu litz wires		
Insulation resistance	$\geq 500~\text{M}\Omega^*\text{km}$		
Loop resistance	≤ 290.00 Ω/km		
Cable capacity	47 nF/km		
Wave impedance	100 Ω ±5 Ω (at 100 MHz)		
Near end crosstalk attenuation (NEXT)	75.3 dB (with 1 MHz)		
	66.3 dB (at 4 MHz)		
	61.8 dB (at 8 MHz)		
	60.3 dB (at 10 MHz)		
	57.2 dB (at 16 MHz)		



Technical data

Cable

Gable	
	55.8 dB (at 20 MHz)
	54.3 dB (at 25 MHz)
	52.8 dB (at 31.25 MHz)
	48.4 dB (at 62.5 MHz)
	45.3 dB (at 100 MHz)
	40.8 dB (at 200 MHz)
	39.3 dB (at 250 MHz)
	38.1 dB (at 300 MHz)
	36.3 dB (at 400 MHz)
	34.8 dB (at 500 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	72.3 dB (with 1 MHz)
	63.3 dB (at 4 MHz)
	58.8 dB (at 8 MHz)
	57.3 dB (at 10 MHz)
	54.2 dB (at 16 MHz)
	52.8 dB (at 20 MHz)
	51.3 dB (at 25 MHz)
	49.9 dB (at 31.25 MHz)
	45.4 dB (at 62.5 MHz)
	42.3 dB (at 100 MHz)
	37.8 dB (at 200 MHz)
	36.3 dB (at 250 MHz)
	35.1 dB (at 300 MHz)
	33.3 dB (at 400 MHz)
	31.8 dB (at 500 MHz)
Attenuation	3.1 dB (with 1 MHz)
	5.7 dB (at 4 MHz)
	8 dB (at 8 MHz)
	8.9 dB (at 10 MHz)
	11.2 dB (at 16 MHz)
	12.6 dB (at 20 MHz)
	14.1 dB (at 25 MHz)
	15.8 dB (at 31.25 MHz)
	22.5 dB (at 62.5 MHz)
	28.7 dB (at 100 MHz)
	41.4 dB (at 200 MHz)
	46.6 dB (at 250 MHz)



Technical data

Cable

Cable	
	51.4 dB (at 300 MHz)
	60.1 dB (at 400 MHz)
	67.9 dB (at 500 MHz)
Return loss (RL)	20 dB (with 1 MHz)
	23 dB (at 4 MHz)
	24.5 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	24.2 dB (at 25 MHz)
	23.3 dB (at 31.25 MHz)
	20.7 dB (at 62.5 MHz)
	19 dB (at 100 MHz)
	16.4 dB (at 200 MHz)
	15.6 dB (at 250 MHz)
	15.6 dB (at 300 MHz)
	15.6 dB (at 400 MHz)
	15.6 dB (at 500 MHz)
Signal runtime	5.13 ns/m
Shield attenuation	≥ 80 dB (at 30 100 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	in accordance with DIN 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
Shielded	yes

Environmental Product Compliance

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

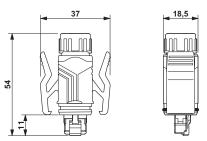
Drawings



Cable cross section



Dimensional drawing



Ethernet 10 Gbit [94F]

Classifications

eCl@ss

eCl@ss 10.0.1	27060308
eCl@ss 11.0	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	27060300
eCl@ss 7.0	27060308
eCl@ss 9.0	27060308

ETIM

ETIM 3.0	EC000830
ETIM 4.0	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			
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Approval details			
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