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Assembled Ethernet cable, shielded, 4-pair, AWG 26 suitable for use with drag chain (19-wire), RAL 5021 (sea blue), M12 flush-type socket, rear wall/screw mounting with M16 thread on RJ45 connector/IP67, black, line, length 2 m



Key Commercial Data

Packing unit	1
GTIN	4 046356 475815
GTIN	4046356475815
Custom tariff number	85444210

Technical data

Dimensions

Length of cable	2.00 m

Ambient conditions

Degree of protection	IP67
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General data

Number of positions	8
Degree of pollution	3
Alternative short product description	Ethernet cable
Insertion/withdrawal cycles	≥ 100
Transmission characteristics (category)	CAT5

Standards and Regulations

Flammability rating according to UL 94	V2



Technical data

Cable

Cable type	Ethernet drag chain CAT5, 4-pair
Cable type (abbreviation)	94C
UL AWM style	20963 (80°C/30 V)
Signal type/category	Ethernet CAT5 (IEC 11801), 1 Gbps
Cable structure	4x2xAWG26/19; S/UTP
Conductor cross section	4x 2x 0.14 mm²
AWG signal line	26
Conductor structure signal line	19x 0.10 mm
Core diameter including insulation	1 mm
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Overall twist	Four pairs and four fillers to the core
Shielding	Tinned copper braided shield
Optical shield covering	90 %
External sheath, color	water blue RAL 5021
Outer sheath thickness	0.85 mm
External cable diameter D	6.9 mm +0.1 mm 0.2 mm
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Number of bending cycles	5000000
Minimum bending radius, drag chain applications	7,5 x D
Traversing rate	3 m/s
Acceleration	5 m/s ²
Tensile strength GRP	≤ 100 N
Cable weight	57 kg/km
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 290.00 Ω/km
Cable capacity	approx. 50 nF/km (at 1 kHz)
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Near end crosstalk attenuation (NEXT)	65.3 dB (with 1 MHz)
	56.3 dB (at 4 MHz)
	50.3 dB (at 10 MHz)
	47.2 dB (at 16 MHz)



Technical data

Cable

40,8 db (at 31,25 MHz)		45.8 dB (at 20 MHz)
38.4 dB (at 62.5 MHz) 35.3 dB (at 100 MHz) 35.3 dB (at 10 MHz) 35.4 dB (at 20 MHz) 35.4 dB (at 62.5 MHz) 35.4 dB (at 10 MHz) 35.4 dB (at 10 MHz) 35.4 dB (at 10 MHz) 35.4 dB (at 20 MHz) 35.4 dB (at 20 MHz) 35.4 dB (at 20 MHz) 35.4 dB (at 62.5 MHz) 35.3 mB		
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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		25 dB (at 20 MHz)
$ 20.1 \text{ dB (at 100 MHz)} $ Signal runtime $ 5.3 \text{ ns/m} $ Coupling resistance $ \leq 100.00 \text{ m}\Omega/\text{m (at 10 MHz)} $ Nominal voltage, cable $ \leq 100 \text{ V} $ Test voltage Core/Core $ 700 \text{ V (50 Hz, 1 min.)} $ Test voltage Core/Shield $ 700 \text{ V (50 Hz, 1 min.)} $ Flame resistance $ according \text{ to IEC 60332-1-2} $ Halogen-free $ according \text{ to IEC 60754-1} $		23.6 dB (at 31.25 MHz)
Signal runtime 5.3 ns/m Coupling resistance $\leq 100.00 \text{ m}\Omega/\text{m}$ (at 10 MHz) Nominal voltage, cable $\leq 100 \text{ V}$ 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		21.5 dB (at 62.5 MHz)
Coupling resistance $\leq 100.00 \text{ m}\Omega/\text{m}$ (at 10 MHz) Nominal voltage, cable $\leq 100 \text{ V}$ 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		20.1 dB (at 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	Signal runtime	5.3 ns/m
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	Coupling resistance	\leq 100.00 m Ω /m (at 10 MHz)
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	Nominal voltage, cable	≤ 100 V
Flame resistance according to IEC 60332-1-2 Halogen-free according to IEC 60754-1	Test voltage Core/Core	700 V (50 Hz, 1 min.)
Halogen-free according to IEC 60754-1	Test voltage Core/Shield	700 V (50 Hz, 1 min.)
·	Flame resistance	according to IEC 60332-1-2
Resistance to oil according to EN 60811-2-1	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)	Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)



Technical data

Cable

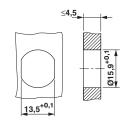
	-20 °C 80 °C (cable, flexible installation)
Ambient temperature (installation)	-20 °C 80 °C
Ambient temperature (storage/transport)	-20 °C 80 °C
Shielded	yes

Environmental Product Compliance

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

Dimensional drawing

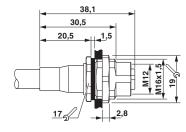


Cable cross section

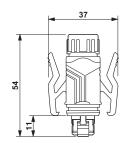


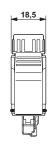
Housing cutout for M16 fastening thread, mounting panel with feed-through Ethernet drag chain CAT5, 4-pair [94C] hole (alternatively with surface as protection against rotation)

Dimensional drawing



Dimensional drawing

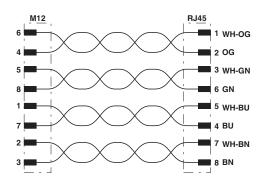




M12 flush-type connector



Circuit diagram



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	l EC001262
ETIM 7.0	EC001262
E11W17.0	20001202

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	
EAC EAC	19060508

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