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Network cable, Ethernet CAT5e (1 Gbps), 8-position, TPE, Teal, Plug angled M12 / IP65, coding: A, on free cable end, cable length: 10 m



Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 325077
GTIN	4063151325077
Country of origin	United States

Technical data

Dimensions

Length of cable	10 m
A 1.1 (1991	

Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-25 °C 85 °C (M12 connector)

General data

Rated current at 40°C 2 A (Plug/socket in accordance with IEC 61076-2-101, cable is to be observed)		
Rated voltage	48 V AC	
	60 V DC	
Number of positions	8	
Signal type/category	Ethernet CAT5e, 1 Gbps	
Standards/regulations	M12 connector IEC 61076-2-101	

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Technical data

General data

Contact material	CuSn
Contact carrier material	TPU GF
Contact surface material	Ni/Au
Transmission characteristics (category)	CAT5e
Transmission speed	1 Gbps

Characteristics head 1

Head type	Plug angled M12 / IP65
Coding	A (Standard)

Characteristics head 2

Head type	free cable end

Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-101
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Cable

Cable type (abbreviation) UL AWM style 2463 (80 °C / 600 V) Signal type/category Ethernet CAT5e (TIA 568B) Cable structure 4x2xAWG24/7; SF/UTP Conductor cross section 4x 2x 0.2 mm² AWG signal line 24 Conductor structure signal line 7x 0.20 mm (7x32) Core diameter including insulation 1.2 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-lined polyester foil, tinned copper braided shield Optical shield covering External sheath, color External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles Minimum bending radius, drag chain applications 20 X D			
Signal type/category Ethernet CAT5e (TIA 568B) Cable structure 4x2xAWG24/7; SF/UTP Conductor cross section 4x 2x 0.2 mm² AWG signal line 24 Conductor structure signal line Core diameter including insulation 1.2 mm Wire colors Twisted pairs Overall twist 1 a pairs for core Shielding Optical shield covering External sheath, color External cable diameter D Number of bending cycles Number of bending radius, drag chain applications 10 x 0.20 mm 4x2xAWG24/7; SF/UTP 4x2x 0.2 mm² 4x2x 0.2 mm² 24 24 25 20 core of mm (7x32) 1.2 mm white/blue-blue, white/orange-orange, white/green-green, white/brown brown 1 x pairs for core Aluminum-lined polyester foil, tinned copper braided shield 75 % External sheath, color Teal External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 10000000	Cable type (abbreviation)	94L	
Cable structure Conductor cross section AWG signal line Conductor structure signal line Core diameter including insulation Wire colors Wire colors Wire days are signal line Coverall twist Shielding Optical shield covering External sheath, color External cable diameter D Number of bending cycles Number of bending radius, drag chain applications 4 x 2x 0.2 mm² Auxin (7x32) 1.2 mm white/blue-blue, white/orange-orange, white/green-green, white/brown brown 1 x 2 cores to the pair 4 pairs for core Aluminum-lined polyester foil, tinned copper braided shield 7 5 % External sheath, color Teal External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles Number of bending cycles 10000000	UL AWM style	2463 (80 °C / 600 V)	
Conductor cross section AWG signal line 24 Conductor structure signal line 7x 0.20 mm (7x32) Core diameter including insulation 1.2 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-lined polyester foil, tinned copper braided shield Optical shield covering External sheath, color External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles Minimum bending radius, drag chain applications 1000000 Number of bending cycles 10000000	Signal type/category	Ethernet CAT5e (TIA 568B)	
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Conductor structure signal line 7x 0.20 mm (7x32) Core diameter including insulation 1.2 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-lined polyester foil, tinned copper braided shield Optical shield covering 75 % External sheath, color External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	Conductor cross section	4x 2x 0.2 mm²	
Core diameter including insulation 1.2 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-lined polyester foil, tinned copper braided shield Optical shield covering 75 % External sheath, color External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles Number of bending radius, drag chain applications Number of bending cycles 10000000	AWG signal line	24	
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-lined polyester foil, tinned copper braided shield Optical shield covering 75 % External sheath, color Teal External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	Conductor structure signal line	7x 0.20 mm (7x32)	
Wire colors brown Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Shielding Aluminum-lined polyester foil, tinned copper braided shield Optical shield covering 75 % External sheath, color Teal External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	Core diameter including insulation	1.2 mm	
Overall twist 4 pairs for core Shielding Aluminum-lined polyester foil, tinned copper braided shield Optical shield covering 75 % External sheath, color Teal External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown	
Shielding Aluminum-lined polyester foil, tinned copper braided shield Optical shield covering 75 % External sheath, color Teal External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	Twisted pairs	2 cores to the pair	
Optical shield covering 75 % External sheath, color Teal External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	Overall twist	4 pairs for core	
External sheath, color External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	Shielding	Aluminum-lined polyester foil, tinned copper braided shield	
External cable diameter D 7.4 mm ±0.25 mm Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	Optical shield covering	75 %	
Number of bending cycles 1000000 Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	External sheath, color	Teal	
Minimum bending radius, drag chain applications 10 x D Number of bending cycles 10000000	External cable diameter D	7.4 mm ±0.25 mm	
Number of bending cycles 10000000	Number of bending cycles	1000000	
	Minimum bending radius, drag chain applications	10 x D	
Minimum bending radius, drag chain applications 20 X D	Number of bending cycles	10000000	
	Minimum bending radius, drag chain applications	20 X D	
Torsion force 1 lb. load	Torsion force	1 lb. load	
Torsion cycles 4800000	Torsion cycles	4800000	
Torsional frequency 71 (cycles/min)	Torsional frequency	71 (cycles/min)	

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Technical data

Cable

Ambient temperature (operation)	20 °C
Outer sheath, material	TPE
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Near end crosstalk attenuation (NEXT)	50 dB (with 100 MHz (IEC 62153-4-9))
Return loss (RL)	20 dB (at 10 MHz (+6LOG))
	26 dB (at 20 MHz)
	26 dB (at 100 MHz (-5LOG))
Cable impedance	100 Ω ±15 Ω (at 1 100 MHz)
Nominal voltage, cable	600 V
Test voltage, cable	2000 V
Flame resistance	VW-1
Other resistance	Resistant to welding splashes Abrasion and oil resistance
	UV resistant CMX outdoor
Ambient temperature (operation)	-40 °C 80 °C (Cable, flexible installation)
Shielded	yes

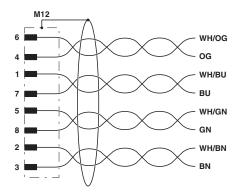
Drawings

Schematic diagram



Pin assignment M12 plug, 8-pos., A-coded, view plug side

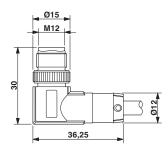
Circuit diagram



Contact assignment of the M12 plug



Dimensional drawing



M12 x 1 male plug, angled, shielded

Cable cross section





Classifications

eCl@ss

eCl@ss 9.0	27060308
eCl@ss 11.0	27060307

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

UL Recognized	7. 1	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		File E335024
Nominal voltage UN			60 V	
Nominal current IN			1.5 A	

cUL Recognized	. A7	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		File E335024
Nominal voltage UN			60 V	
Nominal current IN			1.5 A	

cULus Recognized

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