

1407475

https://www.phoenixcontact.com/us/products/1407475

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Network cable, Ethernet CAT6 $_{\rm A}$ (10 Gbps), CC-Link IE CAT6 $_{\rm A}$ (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12 SPEEDCON, coding: X / IP67, on Plug straight RJ45 Push Pull / IP67, cable length: 1 m

Commercial data

Item number	1407475
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF04
Product key	AF1CMJ
GTIN	4046356776745
Weight per piece (including packing)	136.1 g
Weight per piece (excluding packing)	136.1 g
Customs tariff number	85444210
Country of origin	PL



1407475

https://www.phoenixcontact.com/us/products/1407475

Technical data

Notes

General	Further products with variable cable type and variable cable
	length can be found in the accessories section

Product properties

Product type	Data cable preassembled
Application	Standard
Sensor type	Ethernet
Number of positions	8
No. of cable outlets	1
Number of slots	1
Shielded	yes
Coding	X

Interfaces

Bus system	Ethernet
Signal type/category	Ethernet CAT6 _A , 10 Gbps
	CC-Link IE CAT6 _A , 10 Gbps

Signaling

Status display	no
Status display present	no

Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I _N	0.5 A
Transmission medium	Copper
Transmission speed	10 Gbps
Transmission characteristics (category)	CAT6 _A

Connector

Connection 1	
Dimensional drawing	Pin assignment of M12 plug, 8-pos., X-coded, pin side view
Туре	M12 Plug, straight, 8-position, shielded (Advanced Shielding Technology), Keying: X



1407475

https://www.phoenixcontact.com/us/products/1407475

Number of positions	8
Shielded	yes
Shielding	Advanced Shielding Technology
Signal type/category	Ethernet CAT6 _A , 10 Gbps
	CC-Link IE CAT6 _A , 10 Gbps
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 Ω
Overvoltage category	II .
Degree of pollution	3
Tightening torque	0.4 Nm (M12 connector)
Material Contact	CuZn
Material Contact surface	Ni/Au
Material Contact carrier	PA 6.6
Material Screw connection	Die-cast zinc, nickel-plated
Material Grip body	TPU, hardly inflammable, self-extinguishing
Material Seal	FKM
Flammability rating according to UL 94	V0
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 85 °C
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-109

Connection 2

Dimensional drawing

Flammability rating according to UL 94

Degree of protection

	87654321 Connector pin assignment plug RJ45
Туре	RJ45 Plug, straight
Insertion/withdrawal cycles	≥ 750
Insulation resistance	≥ 100 MΩ
Overvoltage category	I
Degree of pollution	2
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	Metal

V0

IP67



1407475

https://www.phoenixcontact.com/us/products/1407475

Ambient temperature (operation)	-40 °C 70 °C
ole/line	
Cable length	1 m
thernet 10 Gbit [94F]	
Dimensional drawing	
UL AWM Style	21238 (80 °C / 600 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet 10 Gbit [94F]
Conductor structure	4x2xAWG26/7; S/FTP
AWG signal line	26
Conductor cross section	4x 2x 0.14 mm²
Wire diameter incl. insulation	1 mm ±0.05 mm
External cable diameter	6.40 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	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
Optical shield covering	70 %
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 290.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	51 mm
Halogen-free	according to IEC 60754-1
	according to IEC 60332-1-2



1407475

https://www.phoenixcontact.com/us/products/1407475

Flame resistance	in accordance with UN ECE-R 118.03
	according to CSA C 22.2 No. 210-FT1
Resistance to oil	in accordance with DIN EN 60811-404
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-20 °C 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 (M12 connector)
	IP67 (M12 connector)
	IP67 (RJ45 connector)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-109

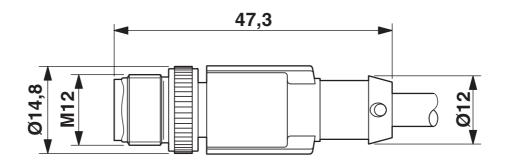


1407475

https://www.phoenixcontact.com/us/products/1407475

Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

22

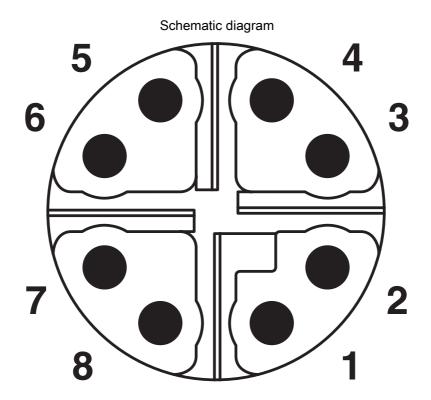
Dimensional drawing

RJ45 Push-Pull connector, IP67



1407475

https://www.phoenixcontact.com/us/products/1407475



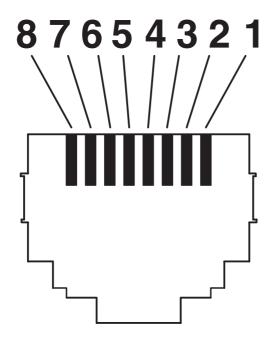
Pin assignment of M12 plug, 8-pos., X-coded, pin side view



1407475

https://www.phoenixcontact.com/us/products/1407475

Schematic diagram

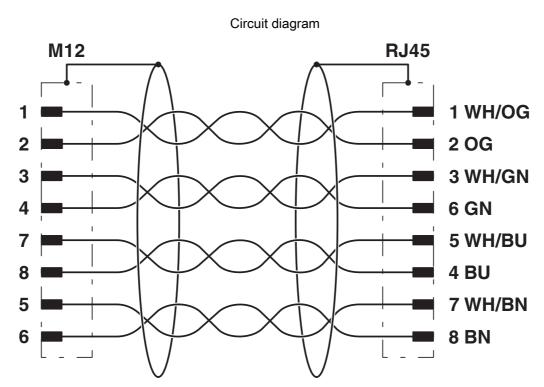


Connector pin assignment plug RJ45



1407475

https://www.phoenixcontact.com/us/products/1407475



Contact assignment of the M12 and RJ45 plug



1407475

https://www.phoenixcontact.com/us/products/1407475

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1407475

	UL Listed Approval ID: FILE E 335024				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		30 V	0.5 A	-	-

	CUL Listed Approval ID: FILE E 335024				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		30 V	0.5 A	-	-

ERC	EAC-RoHS Approval ID: RU D-DE.HB35.B.00387



1407475

https://www.phoenixcontact.com/us/products/1407475

Classifications

ECLASS

	ECLASS-13.0	27060307		
	ECLASS-15.0	27060307		
FI	ETIM			
L I IIVI				
	ETIM 9.0	EC001855		
UNSPSC				
	UNSPSC 21.0	26121600		



1407475

https://www.phoenixcontact.com/us/products/1407475

Environmental product compliance

EU R	oHS
------	-----

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	0970e1c8-2039-40f8-9097-7a02ea679a83
EF3.0 Climate Change	
CO2e kg	2.282 kg CO2e

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com