

1343467

https://www.phoenixcontact.com/in/products/1343467

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.



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, PUR halogen-free, black RAL 9005, shielded (Advanced Shielding Technology), Plug straight M12, coding: Y / IP65/IP67, on free cable end, cable length: 16 m, Power with Ethernet (PWE)

### Commercial data

Item number	1343467
Packing unit	1 pc
Minimum order quantity	25 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	AF1CMJ
GTIN	4063151654962
Weight per piece (including packing)	1,800 g
Weight per piece (excluding packing)	22.2 g
Customs tariff number	85444290
Country of origin	PL



1343467

https://www.phoenixcontact.com/in/products/1343467

### Technical data

### Product properties

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

#### Interfaces

Bus system	Ethernet
Signal type/category	Ethernet hybrid CAT5 (IEC 11801), 100 Mbps

### Signaling

Status display	no
Status display present	No

### Electrical properties

Nominal voltage $U_N$	48 V AC (Power and data)
	50 V DC (Power and data)
Nominal current I <sub>N</sub>	6 A (Power)
	0.5 A (Data)
Transmission medium	Copper

### Material specifications

Flammability rating according to UL 94	V0
--	----

#### Connector

#### Connection 1

Туре	Plug straight M12 / IP65/IP67	
Number of positions	8 (4+4)	
Coding type	Y (Hybrid)	
Shielded	yes	
Handle color	black	
Material	CuZn (Contact)	
	Ni/Au (Contact surface)	
	PA (Contact carrier, data)	
	PA (Contact carrier, power)	
	TPU, hardly inflammable, self-extinguishing (Grip body)	
	Zinc die-cast, nickel-plated (Screw connection)	
Insertion/withdrawal cycles	≥ 100	



1343467

https://www.phoenixcontact.com/in/products/1343467

Insulation resistance	≥ 100 MΩ
Tightening torque	0.4 Nm
Degree of protection	IP65/IP67
Ambient temperature (operation)	-25 °C 90 °C
Connection 2	
Туре	free cable end
Cable/line	
Cable length	16 m
Ethernet hybrid [94H]	
Dimensional drawing	
Cable weight	110 kg/km
UL AWM Style	20233 (80°C/300 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet hybrid [94H]
Conductor structure	1x4x AWG 26+1x4x AWG 18
Conductor structure signal line	19x 0.10 mm
AWG signal line	26
Conductor structure, voltage supply	19x 0.20 mm
AWG power supply	18
Conductor cross section	4x 0.15 mm² (Data)
	4x 0.85 mm² (Power)
Wire diameter incl. insulation	1.05 mm (Data)
	1.4 mm (Power)
External cable diameter	8.80 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PP (Data)
	PP (Power)
Single wire, color	white/orange, orange, white/green, green, white, blue, brown, black
Overall twist	1 star quad and 4 wires with 2 fillers
Optical shield covering	85 %
Insulation resistance	≥ 5 GΩ*km



1343467

https://www.phoenixcontact.com/in/products/1343467

Loop resistance	≤ 280.00 Ω/km (Data) ≤ 45.00 Ω/km (Power)			
Ways impedance	100 Ω ±15 Ω (4 MHz 100 MHz)			
Wave impedance				
Working capacitance	nom. 50 nF (per kilometer)			
Differential impedance	100 $\Omega$ ±5 % (at 100 MHz)			
Nominal voltage, cable	≤ 125 V (Peak value, not for high-power applications)			
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	36 mm			
Smallest bending radius, movable installation	71 mm			
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 15 x D, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s², Ambient temperature: -20 °C 60 °C			
Tensile strength	85 N (in accordance with DIN EN 50565-1 for flexible installation			
	295 N (in accordance with DIN EN 50565-1 for fixed installation)			
Near end crosstalk attenuation (NEXT)	56.3 dB (at 4 MHz)			
	50.3 dB (at 10 MHz)			
	47.2 dB (at 16 MHz)			
	45.8 dB (at 20 MHz)			
	42.9 dB (at 31.25 MHz)			
	38.4 dB (at 62.5 MHz)			
	35.3 dB (at 100 MHz)			
Shield attenuation	6.2 dB (at 4 MHz)			
	9.8 dB (at 10 MHz)			
	12.4 dB (at 16 MHz)			
	13.9 dB (at 20 MHz)			
	17.6 dB (at 31.25 MHz)			
	25.4 dB (at 62.5 MHz)			
	32.8 dB (at 100 MHz)			
	≥ 80.00 dB (30 MHz 100 MHz)			
Halogen-free	according to IEC 60754-1			
ŭ	in accordance with DIN VDE 0472 part 815			
Flame resistance	in accordance with UL 1581, Section 1060			
	in acc. with UL 1581, section 1061			
	in accordance with UL 2556, Section 9.3			
Resistance to oil	in accordance with IEC 60811-404			
	According to DIN EN 50363-10-2			
Other resistance	Low adhesion			
	Hydrolysis resistance (DIN EN 50396)			
Special properties	Free of substances which would hinder coating with paint or varnish			
	Silicone-free			
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)			



1343467

https://www.phoenixcontact.com/in/products/1343467

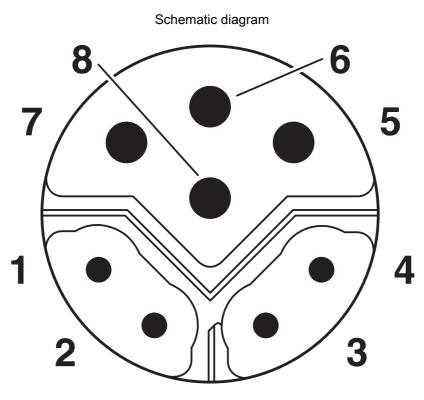
	-30 °C 70 °C (Cable, flexible installation)
Environmental and real-life conditions	
Ambient conditions	
Degree of protection	IP65
	IP67
	IP65/IP67
Standards and regulations	
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-113



https://www.phoenixcontact.com/in/products/1343467

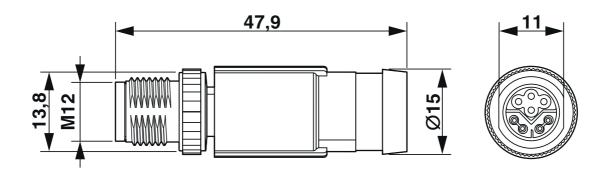


### Drawings



M12 hybrid plug pin assignment, 8-pos., Y-coded, pin side view

### Dimensional drawing

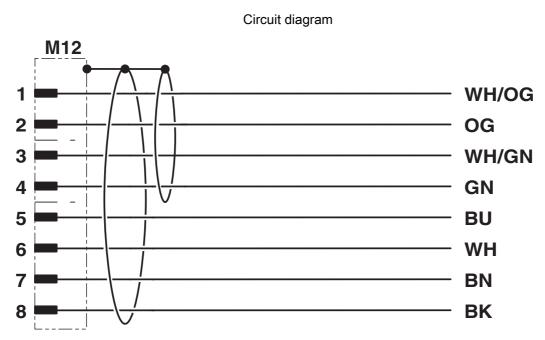


Plug, M12 x 1, straight, shielded



1343467

https://www.phoenixcontact.com/in/products/1343467



Contact assignment of the M12 plug



1343467

https://www.phoenixcontact.com/in/products/1343467

### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1343467

UL Listed Approval ID: E221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	48 V	6 A	-	- 18
Data	50 V	0.5 A	-	- 26

cUL Listed Approval ID: E221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	48 V	6 A	- 18	-
Data	50 V	0.5 A	- 26	-



1343467

https://www.phoenixcontact.com/in/products/1343467

### Classifications

#### **ECLASS**

UNSPSC 21.0

ECLASS-11.0	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307
ETIM	
ETIM 9.0	EC001855
UNSPSC	

26121600



1343467

https://www.phoenixcontact.com/in/products/1343467

### Environmental product compliance

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.)	No substance above 0.1 wt%



1343467

https://www.phoenixcontact.com/in/products/1343467

#### Accessories

#### PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

https://www.phoenixcontact.com/in/products/1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



### SAC-M12-EXCLIP-M - Locking clip

1558988

https://www.phoenixcontact.com/in/products/1558988



Locking clip for the pin side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools



1343467

https://www.phoenixcontact.com/in/products/1343467

#### TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/in/products/1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

#### TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/in/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm



1343467

https://www.phoenixcontact.com/in/products/1343467

### TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/in/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

#### SAC BIT M12-D15 - Tool

1208432

https://www.phoenixcontact.com/in/products/1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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

PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in