

1418637

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Sample set, Ethernet, 8-position, Socket, straight, M12, X-coding, SMD reflow, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

Commercial data

Item number	1418637
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	AB23
Product key	ABQXAA
GTIN	4055626162904
Weight per piece (including packing)	9.85 g
Weight per piece (excluding packing)	4.011 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Notes on operation	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
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Product properties

Product type	Contact insert
Application	Data
Sensor type	Ethernet
Number of positions	8
Shielded	yes
Coding	X
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$> 100 \text{ M}\Omega$
Nominal voltage U_N	50 V AC
	60 V DC
Nominal current I_N	0.5 A (Data)
Transmission characteristics (category)	CAT6 _A

Connection data

Connection method	SMD reflow
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Interfaces

Signal type/category	Ethernet
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Material specifications

Material	Die-cast zinc, nickel-plated (Shield crossover)
Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA

Connector

SACC-CI-M12FSX-8P SMD SH-SP - Sample set



1418637

<https://www.phoenixcontact.com/us/products/1418637>

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	X

Cable/line

Signal type/category	Ethernet
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Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (correctly plugged in and locked)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 105 °C
	-55 °C ... 105 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

Standards and regulations

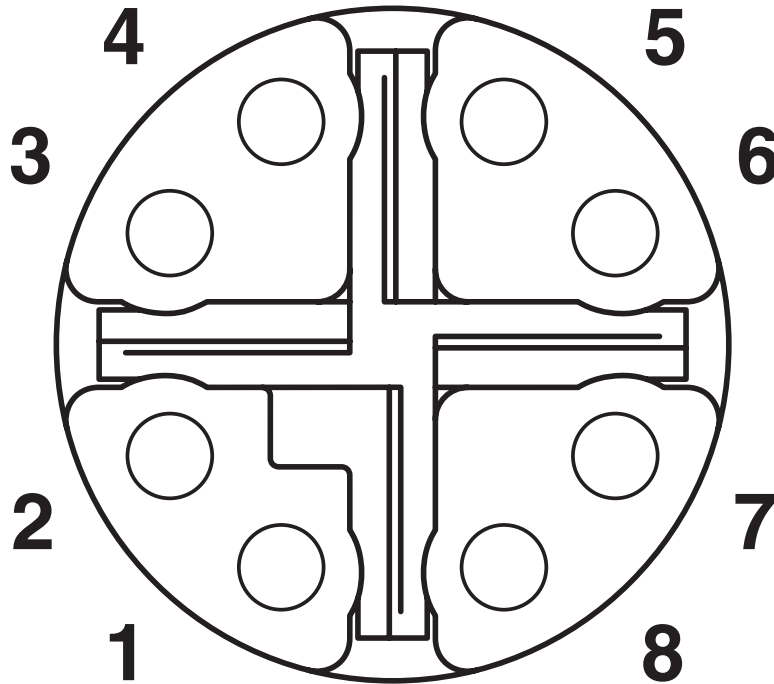
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-109

1418637

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Drawings

Schematic diagram



Pin assignment M12 connector, 8-pos., view socket side

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Approvals

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 cUL Recognized Approval ID: E335024-20120308				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	60 V	0.5 A	-	-

 UL Recognized Approval ID: E335024-20120308				
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Classifications

ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

ETIM

ETIM 9.0	EC003557
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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%
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