SACC-M12FSL-4FECT-CL SH - Power connector

1027478

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Power connector, Power, 5-position, shielded, Socket straight M12, coding: L, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 8 mm ... 13 mm, without crimp contacts, Contact 5 leading

Your advantages

- Extremely compact, thanks to the small wiring space and high contact density
- Safely shielded: reliable shield connection even under extreme mechanical strain
- Robust connection: suitable for railway applications with high shock and vibration loads
- High-performance: DC connectors for up to 16 A and 63 V DC
- Protected seal in the M12 socket
- Protection against mismatching, thanks to special L-coding

Commercial data

Item number	1027478
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF2CJB
Product key	AF2CJB
Catalog page	Page 278 (C-2-2019)
GTIN	4055626520292
Weight per piece (including packing)	47.1 g
Weight per piece (excluding packing)	46.7 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Assembly note	NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

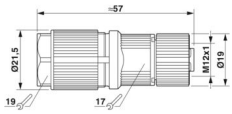
Product properties

Product type	Circular connector (cable-side)
Application	Power supply
Sensor type	Power
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	L
Cable outlet	straight

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	57 mm

External dimensions

Outside diameter	8 mm ... 13 mm

Housing

Diameter housing	21.5 mm

Material specifications

Flammability rating according to UL 94	V0
Material of grip body	Zinc die-cast, nickel-plated
Contact carrier material	PA
Material for screw connection	Zinc die-cast, tin-plated

Connection data

Conductor connection

Connection method	Crimp connection

Connection cross section	1.5 mm² ... 2.5 mm² (flexible)
Connection cross section AWG	14 (flexible)
Tightening torque	M12 knurl
	Pressure nut with coupling sleeve

Pin assignment

Contact | Color (signal designation) | Contact (optional)	1 = BN
	2 = WH
	3 = BU
	4 = BK
	FE = GYPK

Electrical properties

Rated surge voltage	1.5 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	63 V DC
Nominal current I_N	16 A (when using 2.5 mm² conductors)
	16 A (at 40 °C)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

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

Cable/line

Signal type/category	Power

Environmental and real-life conditions

Ambient conditions

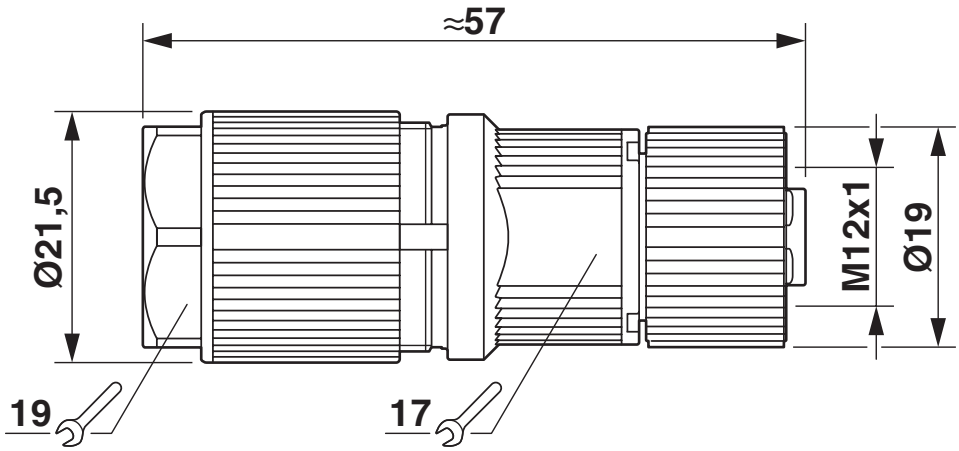
Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	according to IEC 61076-2-111

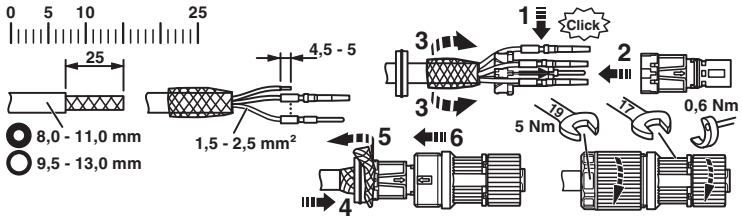
Drawings

Dimensional drawing

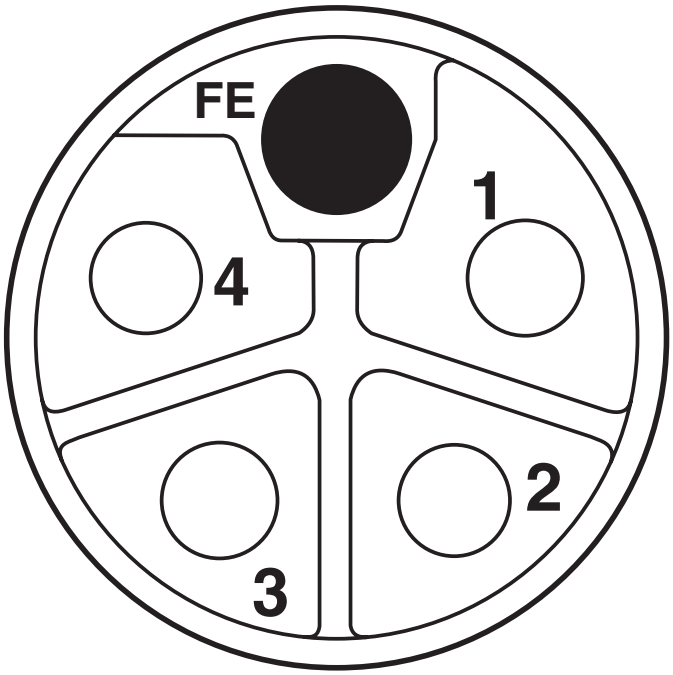


M12 x 1 socket, straight, shielded

Functional drawing



Schematic diagram



Pin assignment of M12 socket, 5-pos., L-coded, socket side view

Approvals

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cULus Recognized
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	13 A	- 14	-

Classifications

ECLASS

ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

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%

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