

1424656

https://www.phoenixcontact.com/in/products/1424656

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.

Connector, Universal, 4-position, unshielded, Socket angled M12, A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm



Your advantages

- Time-saving Push-Lock connection: Tool-free connection and disconnection of conductors by opening the contact levers
- · Intuitive connection: Easy assignment of individual litz wires with color-coded and numerical identification of the contact levers
- · Integrated Push-in Technology: Wire rigid and pretreated conductors easily by means of simple, direct insertion
- Shock- and vibration-resistant connection: Proven spring-cage technology guarantees secure and reliable contacting
- · Flexible cable outlets with angled connectors

Commercial Data

Item number	1424656
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF2
Product Key	BF2CEA
Catalog Page	Page 19 (C-2-2019)
GTIN	4055626375830
Weight per Piece (including packing)	28 g
Weight per Piece (excluding packing)	26.1 g
Customs tariff number	85366990
Country of origin	DE



https://www.phoenixcontact.com/in/products/1424656



Technical Data

Notes

|--|

Mounting

Assembly instructions	The connector pin assignment can be rotated 45° to the cable outlet	
	The wires can be connected both with ferrules and without ferrules	

Product properties

4
1
no
A
angled

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Material

Dimensional drawing	019 M12 M12 Ga. 43
Length	49 mm
External dimensions	
Outside diameter	4 mm 8 mm
Housing	
Diameter housing	19 mm
Material specifications	
Color Handle area	black

PBT PA 6



https://www.phoenixcontact.com/in/products/1424656



Flammability rating according to UL 94	V0	
Seal material	NBR	
Material of grip body	PA 6.6	
Contact material	CuSn	
Contact surface material	Ni/Au	
Contact carrier material	PA 6.6	
Material for screw connection	Zinc die-cast, nickel-plated	
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)	
	PA 6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)	
	PBT: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL2, R26: HL3)	

Connection data

Conductor connection

Connection method	Push-lock spring connection
Connection cross section	0.14 mm ² 0.75 mm ² (without ferrule)
	0.08 mm ² 0.5 mm ² (with ferrule)
	0.14 mm ² 0.75 mm ² (solid)
Connection cross section AWG	26 18 (without ferrule)
	28 20 (with ferrule)
Stripping length of the individual wire	7 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.4 Nm (Connector with coupling sleeve)
	1.5 Nm (Pressure nut with coupling sleeve)

Pin assignment

· ··· deelge.t	
Contact Color (signal designation) Contact (optional)	1 = BN
	2 = WH
	3 = BU
	4 = BK

Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	250 V AC
	250 V DC
Nominal current I _N	4 A (2 A when using 0.14 mm² conductors)

Mechanical properties

Mechanical data



1424656

https://www.phoenixcontact.com/in/products/1424656

Standards/specifications

Insertion/withdrawal cycles	≥ 100 (Quantity: 500 with Phoenix Contact mating connector)
onnector	
Connection 1	
Head design	Socket
Head cable outlet	angled
Head thread type	M12
Coding	А
ble/line	
Signal type/category	Universal
Stripping length of the individual wire	7 mm
Ambient conditions Degree of protection	IP65 IP67
Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)
-	
-	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Festing	R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
andards and regulations Testing Standards/regulations	R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) PA 6: Fire protection in rail vehicles - requirement sets R22, R2
Testing	R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) PA 6: Fire protection in rail vehicles - requirement sets R22, R2 and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) PBT: Fire protection in rail vehicles - requirement sets R22, R2 R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL2,

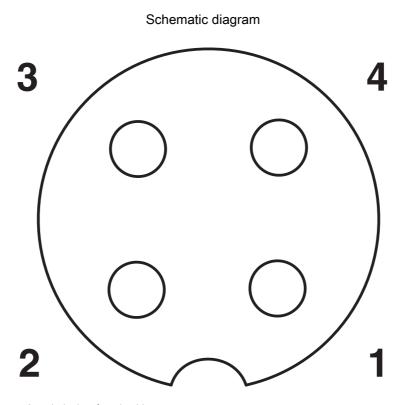
EN 50155:2001



https://www.phoenixcontact.com/in/products/1424656



Drawings



Pin assignment M12 socket, 4-pos., A-coded, view female side

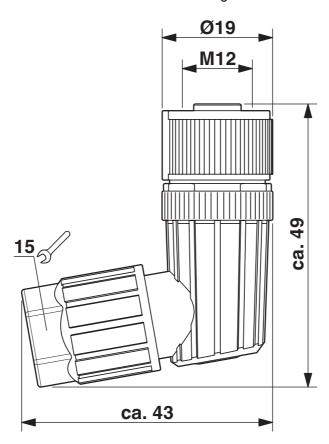
Functional drawing 0,14 - 0,75 mm² AWG 26 - 18 1208429 0,4 Nm 1 10 20 30 1208445 7 31 15 Nm



https://www.phoenixcontact.com/in/products/1424656



Dimensional drawing



M12 x 1 socket, angled



1424656

https://www.phoenixcontact.com/in/products/1424656

Approvals



EAC

Approval ID: RU C-DE.Al30.B.01102



EAC

Approval ID: RU C-DE.BL08.B.00511

UL Listed Approval ID: E221474				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	250 V	4 A	-	26 - 18

•	cUL Listed Approval ID: E221474				
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		250 V	4 A	26 - 18	-



1424656

https://www.phoenixcontact.com/in/products/1424656

Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440102				
ECLASS-12.0	27440116				
ECLASS-13.0	27440116				
ETIM					
ETIM 8.0	EC002635				
UNSPSC					

39121400



1424656

https://www.phoenixcontact.com/in/products/1424656

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e	
	No hazardous substances above threshold values	



1424656

https://www.phoenixcontact.com/in/products/1424656

Accessories

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

SACC BIT M12-D20 - Tool

1208445

https://www.phoenixcontact.com/in/products/1208445

Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive $\,$





1424656

https://www.phoenixcontact.com/in/products/1424656

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

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



1424656

https://www.phoenixcontact.com/in/products/1424656

PROT-M12 MS-PA-CHAIN - Screw plug

1430899

https://www.phoenixcontact.com/in/products/1430899

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



SAC-4P-100,0-PUR/0,25 - Cable reel

1501692

https://www.phoenixcontact.com/in/products/1501692



By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: $100\ m$



1424656

https://www.phoenixcontact.com/in/products/1424656

SAC-4P-100,0-PUR/0,34 - Cable reel

1501663

https://www.phoenixcontact.com/in/products/1501663



By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m

WIREFOX 2,5 - Stripping tool

1212368

https://www.phoenixcontact.com/in/products/1212368



Stripping tool, for conductors and cables with a conductor cross section from 0. 08 to 2.5 mm, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm^2 stranded/1.5 mm^2 solid



1424656

https://www.phoenixcontact.com/in/products/1424656

WIREFOX SAC - Stripping tool

1212623

https://www.phoenixcontact.com/in/products/1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \emptyset of 4.4 to 7 mm, any stripping length

AI 0,25-6 YE - Ferrule

3203024

https://www.phoenixcontact.com/in/products/3203024



Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: yellow



1424656

https://www.phoenixcontact.com/in/products/1424656

A 0,25-7-Ferrule

3202478

https://www.phoenixcontact.com/in/products/3202478



Ferrule, length: 7 mm, color: silver

A 0,34-7-Ferrule

3009202

https://www.phoenixcontact.com/in/products/3009202



Ferrule, length: 7 mm, color: silver



1424656

https://www.phoenixcontact.com/in/products/1424656

A 0,5 - 6 - Ferrule

3200218

https://www.phoenixcontact.com/in/products/3200218



Ferrule, length: 6 mm, color: silver

AI 0,5 - 6 WH - Ferrule

3200687

https://www.phoenixcontact.com/in/products/3200687



Ferrule, sleeve length: 6 mm, length: 12 mm, color: white



1424656

https://www.phoenixcontact.com/in/products/1424656

CRIMPFOX 6H - Crimping pliers

1212046

https://www.phoenixcontact.com/in/products/1212046



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm^2 ... 6 mm^2 , unlockable pressure lock, lateral entry

Phoenix Contact 2023 © - 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