VC-FSMA-M-KT-2 SET - Fiber optic contact insert

1855703

https://www.phoenixcontact.com/us/products/1855703

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Fiber optic contact insert, Range of articles: VARIOCON, design: FSMA, housing material: Nickel silver, color: light grey, number of positions: 1

Your advantages

- Clear overview
- For a variety of applications

Commercial data

Item number	1855703
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB01
Product key	ABOACA
Catalog page	Page 37 (C-2-2013)
GTIN	4017918177041
Weight per piece (including packing)	20.5 g
Weight per piece (excluding packing)	20.5 g
Customs tariff number	85367000
Country of origin	PL

Technical data

Notes

Safety note

Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	• Assembled products may not be manipulated or improperly opened.
	• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• Ensure that the protective or functional ground has been properly connected.
	• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	• Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	• Only use tools recommended by Phoenix Contact
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	• Operate the connector only when it is fully plugged in.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the

	standards.
	• Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

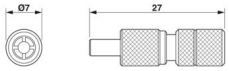
Product properties

Product type	Fiber optic connector (cable side)
Product family	VARIOCON
Type	FSMA
Number of positions	1
Connection profile	F-SMA type 905, IEC 874-2

Electrical properties

Attenuation	≤ 1.5 dB (at 650 nm (for each plug))

Dimensions

Dimensional drawing	
Width	7 mm
Height	7 mm
Length	71 mm

Mechanical characteristics

Contact diameter	3.1 mm

Material specifications

Color	light grey
Material	Polyamide
Housing material	Nickel silver
Contact material	Nickel silver

Cable/line

Cable type	Polymer fiber (980 / 1000 µm)
External cable diameter	≤ 2.30 mm
Resistance to oil	yes
Flame resistance	yes

FO cable

Number of fibers	2
Fiber	Polymer fiber, 980/1000 µm
Fiber type	POF fiber A4A
Transmission medium	FO

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

Characteristics

Attenuation	≤ 1.5 dB (at 650 nm (for each plug))

Environmental and real-life conditions

Ambient conditions

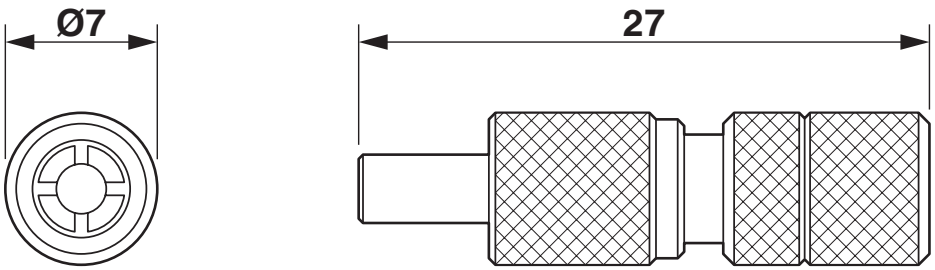
Degree of protection	IP20
	IP20
Ambient temperature (operation)	-20 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (assembly)	-5 °C ... 50 °C
Resistance to oil	yes

Standards and regulations

Flame resistance	yes
Resistance to oil	yes

Drawings

Dimensional drawing



Classifications

ECLASS

ECLASS-11.0	27440223
ECLASS-12.0	27440223
ECLASS-13.0	27440223

ETIM

ETIM 9.0	EC003557

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%

Accessories

PSM-SET-FSMA-POLISH - Assembly tool

2799348

https://www.phoenixcontact.com/us/products/2799348



Polymer fiber polishing set, for F-SMA quick mounting connectors

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PSM-FO-STRIP - Stripping tool

2744199

https://www.phoenixcontact.com/us/products/2744199



Stripping pliers for transmitting individual elements of the fiber optic cable. Especially suited for all polymer and PCF cables. Special mechanics and precise blade form avoid damage to the fiber optic fibers. Dimensions: (L x W x H) 160 x 130 x 36 mm.

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VC-POLISHER/M FSMA - Polisher

1884982

https://www.phoenixcontact.com/us/products/1884982

Polisher, metal, for repeated preparation of VARIOCON fiber optic ferrules



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