

1613435

https://www.phoenixcontact.com/be/products/1613435

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Cable connector, straight, SPEEDCON, M40, number of positions: 4+3+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 14 mm ... 20.5 mm, number of positions: 8, connection method: Crimp connection, series: SM, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242749

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly
- · Flexible use: reliably connect various cable diameters

Commercial data

Item number	1613435
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ABRBGB
Product key	ABRBGB
Catalog page	Page 166 (C-2-2019)
GTIN	4046356400275
Weight per piece (including packing)	432 g
Weight per piece (excluding packing)	367,53 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order information:	Order crimp contacts 4 x Ø 2 mm, 4 x Ø 3.6 mm separately
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
	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.
	 Operate the connector only when it is fully plugged in and interlocked.
	 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



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	warnings (e.g. DIN EN ISO 13732-1:2008-12).
Product properties	
Product type	Circular connector (cable-side)
Series	SM
Application	Power
Number of positions	8
Connection profile	4+3+PE
Shielded	yes
Coding	N
Thread type	M40
Data management status	
Article revision	13
Material specifications	
Seal material	FPM
Housing material	Metal
Housing material	Turned parts: copper zinc alloy (CuZn), aluminum (Al), die-cast parts: zinc (GD-Zn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM
Connection data	
Conductor connection	
Connection method	Crimp connection
Electrical properties Contact	
Contact diameter	3.6 mm
Max. current	70 A
Nominal voltage U _N	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
Contact	
Contact diameter	2 mm
Max. current	30 A
Nominal voltage U _N	250 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	4 kV

Connector



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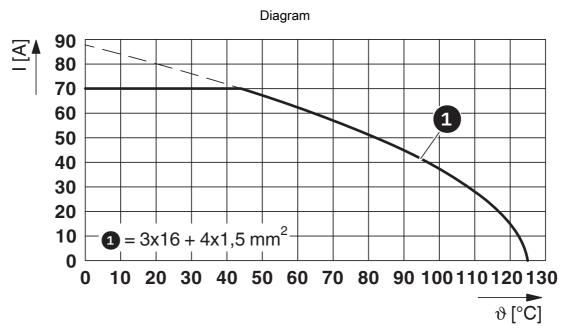
Туре	straight
Connection 1	
Head design	Socket
Cable/line	
External cable diameter	14 mm 20.5 mm
Environmental and real-life conditions Ambient conditions	
Degree of protection	IP67
Ambient temperature (operation)	-40 °C 125 °C
Altitude	3000 m



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Drawings



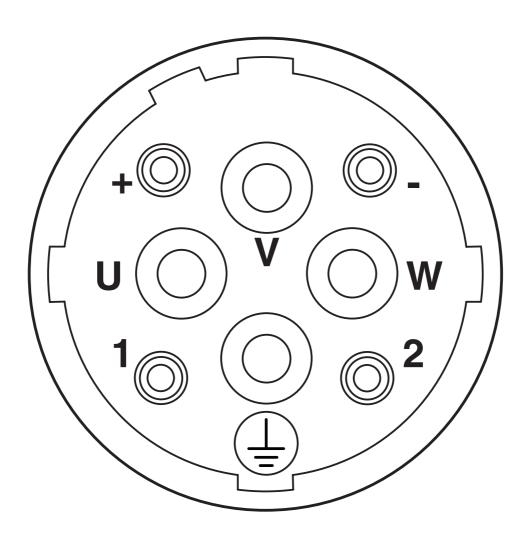
I = current strength, T = ambient temperature



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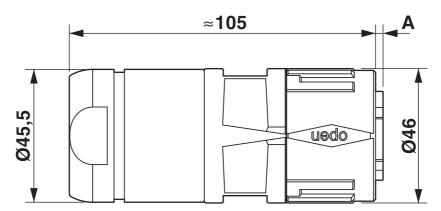


Schematic diagram



Connector pin assignment

Dimensional drawing



Dimensional drawing



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/be/products/1613435

.71	cUL Recognized Approval ID: E153698-20	150903			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power		600 V	40 A	-	-
Signal		600 V	20 A	-	-

UL Recognized Approval ID: E153698-2	0150903			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	65 A	-	-
Signal	600 V	30 A	-	-

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CUL	.us I	Reco	anızı	ea



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440102	
ECLASS-12.0	27440116	
ECLASS-13.0	27440116	
ETIM		
ETIM 9.0	EC002635	
UNSPSC		

39121400



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(b), 6(b)-II
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	bc6a698e-be53-475a-86d6-bb3899cbf21d



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Accessories

SM-36KS001 - Crimp contact

1605756

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Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: $1 \text{ mm}^2 \dots 2.5 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241977

SM-36KS002 - Crimp contact

1605758

https://www.phoenixcontact.com/be/products/1605758



Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: $2.5~\text{mm}^2$... $4~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241979



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SM-36KS003 - Crimp contact

1605760

https://www.phoenixcontact.com/be/products/1605760



Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: $4~\text{mm}^2$... $6~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241979

SM-36KS004 - Crimp contact

1605762

https://www.phoenixcontact.com/be/products/1605762



Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: $6~\text{mm}^2$... $10~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241980



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SF-7PS2000 - Crimp contact

1605636

https://www.phoenixcontact.com/be/products/1605636



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: $0.25~\text{mm}^2~\dots~1~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241952

SF-7NS2000 - Crimp contact

1605631

https://www.phoenixcontact.com/be/products/1605631



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: $0.75~\text{mm}^2$... $1.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1237431



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SF-7QS2000 - Crimp contact

1605643

https://www.phoenixcontact.com/be/products/1605643



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: $1~\text{mm}^2$... $2.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237431

SF-7MS2000 - Crimp contact

1605628

https://www.phoenixcontact.com/be/products/1605628



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: 4 mm 2 ... 4 mm 2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241949



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SM-Z0025 - Color coding

1620558

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Color coding, color: green



SM-Z0026 - Color coding

1620559

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Color coding, color: orange





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SM-Z0027 - Color coding

1620560

https://www.phoenixcontact.com/be/products/1620560

Color coding, color: black



SM-Z0077 - Metal protective cap

1627218

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Metal protective cap, degree of protection: IP67, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245442



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SM-Z0003 - Square mounting flange with O-ring

1607935

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Square mounting flange with O-ring, Axial O-ring, 4x Ø4,2, series: SM

SM-Z0004 - Square mounting flange

1607937

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Square mounting flange, 4x Ø4,2, series: SM



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PROT-M40-PW-IT-IP20 - Plastic protective cap

1577213

https://www.phoenixcontact.com/be/products/1577213



Plastic protective cap, M40, degree of protection: IP20, series: SM, SB

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