

SL-7EP1N8A9002 - Coupler connector



1607506

<https://www.phoenixcontact.com/us/products/1607506>

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.



Coupler connector, straight, Screw locking mechanism, M58, number of positions: 4+3+PE, contact connection type: Pin, shielded: yes, degree of protection: IP67, cable diameter range: 17 mm ... 25 mm, number of positions: 8, connection method: Crimp connection, series: SL

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly
- Reliable transmission of high electrical power

Commercial data

Item number	1607506
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB35
Product key	ABRBHG
Catalog page	Page 174 (C-2-2019)
GTIN	4046356271707
Weight per piece (including packing)	738.48 g
Weight per piece (excluding packing)	738.48 g
Customs tariff number	85366990
Country of origin	DE

SL-7EP1N8A9002 - Coupler connector



1607506

<https://www.phoenixcontact.com/us/products/1607506>

Technical data

Notes

General	Order crimp contacts 4 x Ø 1.6 mm, 4 x Ø 10 mm separately
Safety note	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none">• 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

SL-7EP1N8A9002 - Coupler connector



1607506

<https://www.phoenixcontact.com/us/products/1607506>

warnings (e.g. DIN EN ISO 13732-1:2008-12).

Mounting

Connection method	Crimp connection
-------------------	------------------

Product properties

Product type	Circular connector (cable-side)
Number of positions	8
Connection profile	4+3+PE
Application	Power
Series	SL
Shielded	yes
Coding	N
Thread type	M58

Material specifications

Seal material	FPM
Housing material	Aluminum
Insulator material	PA 6.6
Gasket and O-ring material	FPM
Housing material	Metal

Connection data

Conductor connection

Connection method	Crimp connection
-------------------	------------------

Electrical properties

Contact

Contact diameter	10 mm
Max. current	150 A
Nominal voltage U_N	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV

Contact

Contact diameter	1.6 mm
Max. current	12 A
Nominal voltage U_N	250 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	4 kV

Connector

SL-7EP1N8A9002 - Coupler connector



1607506

<https://www.phoenixcontact.com/us/products/1607506>

Type	straight
------	----------

Cable/line

External cable diameter	17 mm ... 25 mm
-------------------------	-----------------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 120 °C
Altitude	2000 m

SL-7EP1N8A9002 - Coupler connector

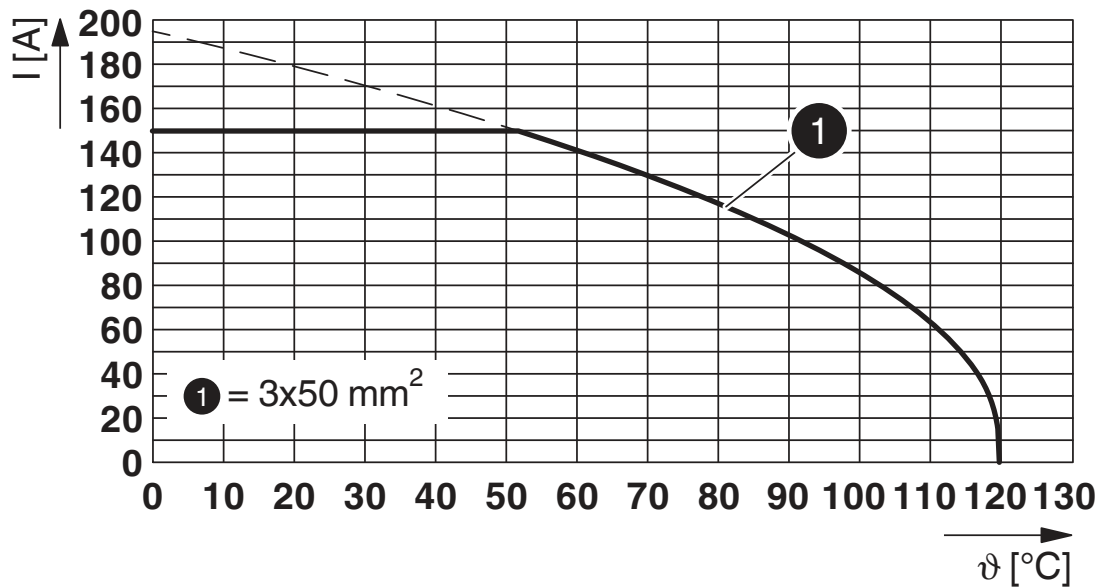


1607506

<https://www.phoenixcontact.com/us/products/1607506>

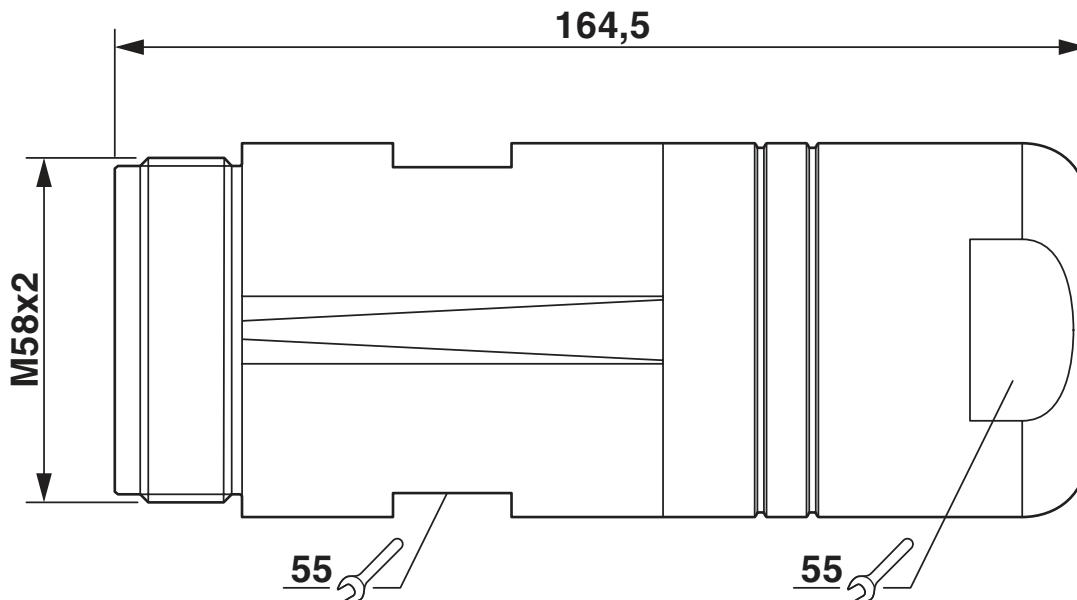
Drawings

Diagram



I = current strength, T = ambient temperature

Dimensional drawing



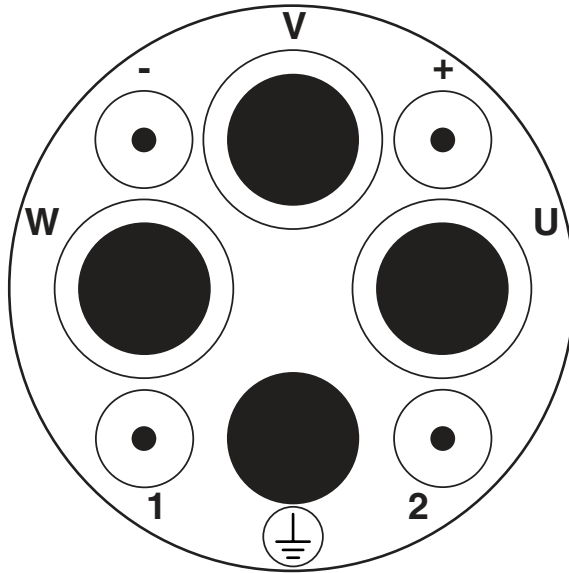
Dimensional drawing

SL-7EP1N8A9002 - Coupler connector

1607506

<https://www.phoenixcontact.com/us/products/1607506>

Schematic diagram



Connector pin assignment

SL-7EP1N8A9002 - Coupler connector



1607506

<https://www.phoenixcontact.com/us/products/1607506>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607506>



EAC

Approval ID: B.01687

SL-7EP1N8A9002 - Coupler connector



1607506

<https://www.phoenixcontact.com/us/products/1607506>

Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 8.0	EC002635
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

SL-7EP1N8A9002 - Coupler connector



1607506

<https://www.phoenixcontact.com/us/products/1607506>

Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

SL-7EP1N8A9002 - Coupler connector



1607506

<https://www.phoenixcontact.com/us/products/1607506>

Accessories

SL-1CKP010 - Crimp contact

1607911

<https://www.phoenixcontact.com/us/products/1607911>



Crimp contact, Pin, turned, contact diameter: 10 mm, crimp range: 10 mm² ... 10 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1362824

SL-1CKP020 - Crimp contact

1607912

<https://www.phoenixcontact.com/us/products/1607912>



Crimp contact, Pin, turned, contact diameter: 10 mm, crimp range: 16 mm² ... 16 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1362825

SL-7EP1N8A9002 - Coupler connector

1607506

<https://www.phoenixcontact.com/us/products/1607506>



SL-1CKP030 - Crimp contact

1607913

<https://www.phoenixcontact.com/us/products/1607913>



Crimp contact, Pin, turned, contact diameter: 10 mm, crimp range: 25 mm² ... 25 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1362827

SL-1CKP040 - Crimp contact

1607914

<https://www.phoenixcontact.com/us/products/1607914>



Crimp contact, Pin, turned, contact diameter: 10 mm, crimp range: 35 mm² ... 35 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1362828

SL-7EP1N8A9002 - Coupler connector

1607506

<https://www.phoenixcontact.com/us/products/1607506>



SL-1CKP050 - Crimp contact

1607915

<https://www.phoenixcontact.com/us/products/1607915>



Crimp contact, Pin, turned, contact diameter: 10 mm, crimp range: 50 mm² ... 50 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1362829

SL-16KP010 - Crimp contact

1607909

<https://www.phoenixcontact.com/us/products/1607909>



Crimp contact, Pin, turned, contact diameter: 1.6 mm, crimp range: 0.75 mm² ... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1242372

SL-7EP1N8A9002 - Coupler connector

1607506

<https://www.phoenixcontact.com/us/products/1607506>



SL-Z0005 - Protective cap

1607926

<https://www.phoenixcontact.com/us/products/1607926>

Plastic protection cap for connectors with M58 external thread



Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com