

# Coupler connector - SM-7EP1N8A9L34S - 1613433

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Coupler connector, straight, for standard and SPEEDCON interlock, M40, number of positions: 4+3+PE, type of contact: Pin, Crimp connection, shielded: yes, cable diameter range: 20.5 mm ... 26.5 mm

## 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



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 400251
GTIN	4046356400251

## Technical data

### General

Note	Order information: Order crimp contacts 4 x Ø 2 mm, 4 x Ø 3.6 mm separately
Type of locking	for standard and SPEEDCON interlock
Coding	N
Contact connection method	Crimp connection
Type of contacts	Pin
Number of positions	8
Contact diameter of power contacts	3.6 mm
Rated current for power contacts	70 A
Contact diameter of signal contacts	2 mm
Nominal current per signal contact	30 A
Conductor entry	20.5 mm ... 26.5 mm
Pg housing screw connection	none

# Coupler connector - SM-7EP1N8A9L34S - 1613433

## Technical data

### Ambient conditions

Ambient temperature	-40 °C ... 125 °C
Degree of protection	IP67

### Material

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

### Specifications according to DIN EN 61984:2001

Installation height max.	3000 m
Nominal / operating voltage of power contacts	630 V
Rated surge voltage of power contacts	6 kV
Overvoltage category of power contacts	III
Degree of pollution of power contacts	3
Nominal / operating voltage of signal contacts	250 V
Rated surge voltage of signal contacts	4 kV
Overvoltage category of signal contacts	III
Degree of pollution of signal contacts	3

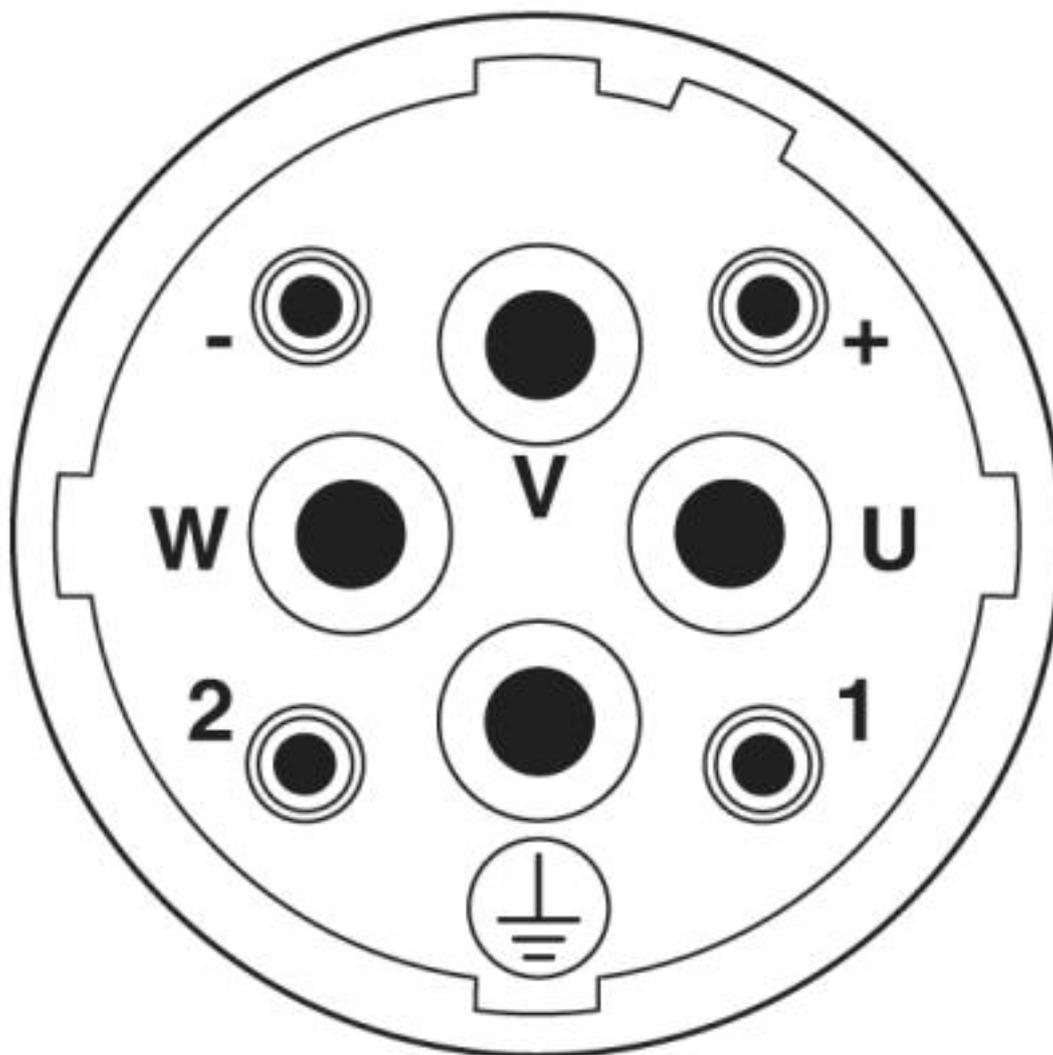
### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

# Coupler connector - SM-7EP1N8A9L34S - 1613433

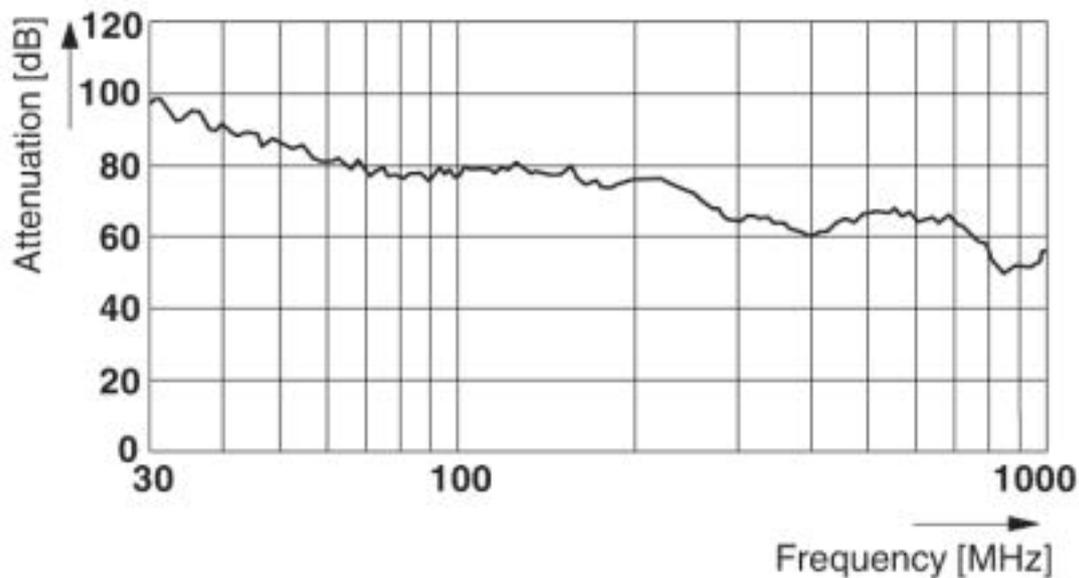
Schematic diagram



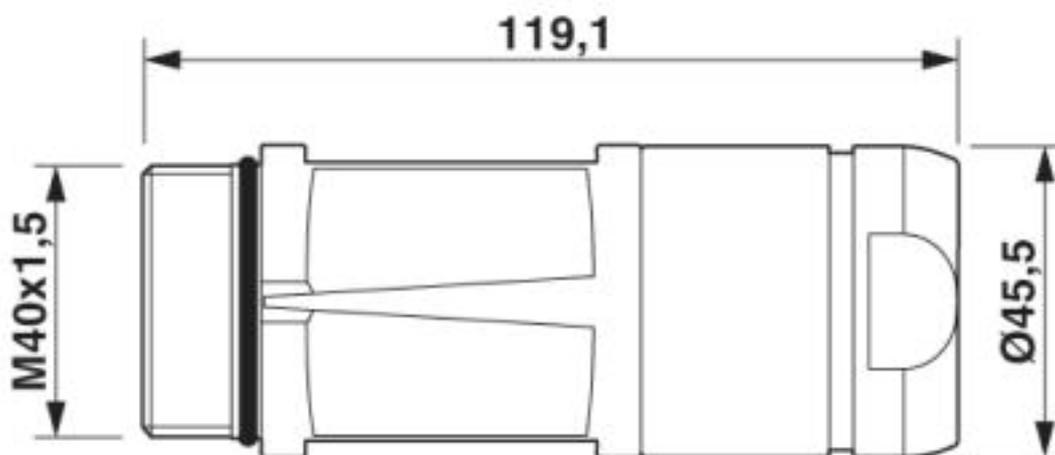
Connector pin assignment

# Coupler connector - SM-7EP1N8A9L34S - 1613433

Diagram



Dimensional drawing



Dimensional drawing

## Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440102

# Coupler connector - SM-7EP1N8A9L34S - 1613433

## Classifications

### eCl@ss

eCl@ss 8.0	27440102
eCl@ss 9.0	27440102

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC001121
ETIM 5.0	EC002635
ETIM 6.0	EC002061

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	39121413
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

## Approvals

### Approvals

---

#### Approvals

EAC

---

#### Ex Approvals

---

### Approval details

EAC		B.01687
-----	--	---------

## Accessories

### Accessories

Crimp contact

## Coupler connector - SM-7EP1N8A9L34S - 1613433

### Accessories

Crimp contact - SM-36KP005 - 1605749



Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

---

Crimp contact - SM-36KP006 - 1605750



Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 2.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>

---

Crimp contact - SM-36KP008 - 1605754



Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>

---

Crimp contact - SM-36KP007 - 1605752



Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 6 mm<sup>2</sup> ... 10 mm<sup>2</sup>

---

Crimp contact - SM-20KP006 - 1605738



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 0.25 mm<sup>2</sup> ... 1 mm<sup>2</sup>

---

## Coupler connector - SM-7EP1N8A9L34S - 1613433

### Accessories

Crimp contact - SM-20KP005 - 1605736



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 0.75 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>

---

Crimp contact - SM-20KP007 - 1605739



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

---

Crimp contact - SM-20KP008 - 1605741



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 2.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>

---

### Mounting material

Protective cap - SM-Z0001 - 1605866



Plastic protection cap for connectors with M40 external thread

---

Color-coding - SM-Z0025 - 1620558



Color-coding, color: green

---

## Coupler connector - SM-7EP1N8A9L34S - 1613433

### Accessories

Color-coding - SM-Z0026 - 1620559



Color-coding, color: orange

---

Color-coding - SM-Z0027 - 1620560



Color-coding, color: black

---

Square mounting flange with O-ring - SM-Z0003 - 1607935



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

---

Square mounting flange - SM-Z0004 - 1607937



Square mounting flange, 4x Ø4,2

---

### Protective cover

Metal protective cap - SB-Z0001 - 1623827



Metal protection cap for M40 connectors with external thread

---

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>