

## Coupler connector - PRC 3-FC-FS6 12-21 - 1010650

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Installation connector, Range of articles: PRC 35, Coupler connector, type: Can only be released with a tool, housing material: PPE, color: black, number of positions: 3, min. conductor cross section: 1.5 mm<sup>2</sup>, max. conductor cross section: 6 mm<sup>2</sup>, nom. voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: Socket, min. cable diameter: 12 mm, max. cable diameter: 21 mm. Variant for release with a tool

### Your advantages

- ✓ Up to 75% smaller in size than industrial connectors with the same rating
- ✓ Locking mechanism can be unlocked manually or using a tool
- ✓ Suitable for applications in atmospheres containing salt and in direct sunlight
- ✓ Ideal for indoor and outdoor use due to weatherproof materials



### Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626484709
Custom tariff number	85366990
Country of origin	Poland

### Technical data

#### Item properties

Range of articles	PRC 35
Brief article description	Coupler connector
Product feature	designed for assembly
Note	Order information: Variant for release with a tool
Type	Can only be released with a tool
Color	black

# Coupler connector - PRC 3-FC-FS6 12-21 - 1010650

## Technical data

### Item properties

Connection method	Screw connection
Type of contact	Socket
Number of positions	3
Connection profile	2+PE
Coding	AD (Mating face)

### Product dimensions

Width	37.6 mm
Height	37.6 mm
Length	107.5 mm

Rated current	35 A (With 6 mm <sup>2</sup> conductor cross section in accordance with IEC 61984)
	32 A (With 6 mm <sup>2</sup> conductor cross section in accordance with IEC 61535)
	21.4 A (With 6 mm <sup>2</sup> conductor cross section and 85 °C in accordance with 2 PFG 1915)
	32 A (with AWG 10, in accordance with UL 2237)
Rated voltage	690 V AC (in accordance with IEC 61984)
	500 V AC (in accordance with IEC 61535/2 PFG 1915)
	600 V AC (In accordance with UL 2238)
Protection class	II

### Connection data

Min. wire cross section	1.5 mm <sup>2</sup>
Max. wire cross section	6 mm <sup>2</sup>
Cable diameter	12 mm ... 21 mm
Stripping length of the sheath	50 mm
Stripping length of the individual wire	12 mm (Lay PE conductor 8 mm leading)
Torque	max. 1 Nm (Contact screw)

### Environmental data

Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 85 °C

### Mechanical tests

Insertion force	30 N ±10 N
Category of shock impact	IK08 (-25°C)

### Service life tests

Degree of protection	IP66 / IP68 (2m / 24h) / IP69K
Insertion/withdrawal cycles	100

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### Technical data

Halogen-free	yes
RTI	105 °C
Contact surface material	silver-plated
Contact material	Cu alloy

### Safety notes

Safety note	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
	<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"> <li>• Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul style="list-style-type: none"> <li>• 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li> </ul>
	<ul style="list-style-type: none"> <li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul style="list-style-type: none"> <li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul style="list-style-type: none"> <li>• Ensure that the protective or functional ground has been properly connected.</li> </ul>
	<ul style="list-style-type: none"> <li>• 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</li> </ul>
	<ul style="list-style-type: none"> <li>• Observe the corresponding technical data. You will find information:                             <ul style="list-style-type: none"> <li>o On the product</li> <li>o On the packing label</li> <li>o In the supplied documentation</li> <li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Only use tools recommended by Phoenix Contact</li> </ul>
	<ul style="list-style-type: none"> <li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li> </ul>
	<ul style="list-style-type: none"> <li>• 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a></li> </ul>
	<ul style="list-style-type: none"> <li>• Operate the connector only when it is fully plugged in.</li> </ul>
	<ul style="list-style-type: none"> <li>• Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
	<ul style="list-style-type: none"> <li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>
	<ul style="list-style-type: none"> <li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>

# Coupler connector - PRC 3-FC-FS6 12-21 - 1010650

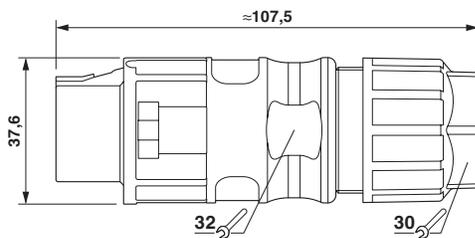
## Technical data

### Safety notes

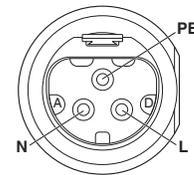
	<ul style="list-style-type: none"> <li>The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).</li> </ul>
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## Drawings

Dimensional drawing

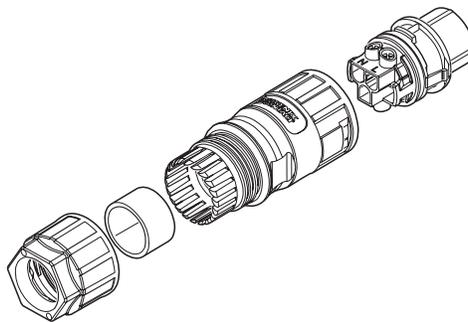


Schematic diagram



Connector pin assignment

Schematic diagram



### Schematic design

## Classifications

### eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 11.0	27440102
eCl@ss 9.0	27440102

### ETIM

ETIM 6.0	EC002061
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## Classifications

### ETIM

ETIM 7.0	EC002635
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### UNSPSC

UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

## Accessories

### Accessories

#### Installation connector

Protective cap - PRC COVER F - 1409236



Protective cap, Range of articles: PRC 35, Protective cap, housing material: PPE, color: black. Suitable for couplings (FS)

Connector - PRC 3-FC-MS6 8-21 - 1014498



Installation connector, Range of articles: PRC 35, Connector, housing material: PPE, color: black, number of positions: 3, min. conductor cross section: 1.5 mm<sup>2</sup>, max. conductor cross section: 6 mm<sup>2</sup>, nom. voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: Pin, min. cable diameter: 8 mm, max. cable diameter: 21 mm

## Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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### Accessories

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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Philips screwdriver - SF-PH 1-80 S-VDE - 1212693



Screwdriver, crosshead PH (lasered), insulated, size: PH 1 x 80, 2-component handle, with non-slip grip

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### Universal tools

Tool - UNIFOX-WRENCH - 1212835



Screw pliers, with fast adjustment, for wrench size 10 mm ... 36 mm, size: 260 mm