



gesis® IP+
Pluggable Electrical Installation
in IP67, 50 A
RST POWER

Safe and Strong



RST POWER Connectors

Compact, quick and strong

Always right on site

The new RST Power connector series combines the highest degree of connectivity with the highest degree of contact density.

The 5 pole IP66/67 connectors and device connections have been designed for 250/400 V and a maximum

current of 50 A. In addition to the well-proven screw connection technology, the components are also available in crimp technology – ideal for industrial pre-assembly.

With only a few individual parts, any electrical device can be made pluggable, which makes for quick and reliable on-site installations.



Advantages at a glance:

- High load carrying capability, up to 50 A
- Cross sections up to 16 mm²
- For M32 knock-outs



Installation with a system

The housing design delivers consistently simple assembly and installation. The device, or bulkhead connectors, intended for installation inside a housing, require no more space than a standard M32 cable gland, and are mounted directly into the panel knock-out via a snap-in fitting.

In cases where a knock-out has been prepared for M40 cable glands, an adapter ring ensures that the required center position is maintained.

The connectors consist of two parts and are installed with only a few flicks of the wrist. An ingenious system of locking mechanisms eliminates time-consuming fastening with screws.

The user-friendly bayonet lock can also protect against accidental disconnection of the connector (if necessary with a lock-out cable).

► Conventional installation

20
min.

► Pluggable installation from Wieland

4
min.



RST 50 Connectors

Simply reliable

Assembly of the device connector



Snap the housing into the M32 knock-out

M40 adapter ring



Tighten the counter nuts positioned inside



Assemble the contact carrier



Fasten or loosen the contact carrier

Assembly of the connector



Insert the cable into the strain relief housing



Connect the wire using screw technology



Connect the wires using crimp technology



Loosen the wires connected using crimp technology



Latch the contact carrier



Fasten or loosen the contact carrier



Tighten the gland using the required torque

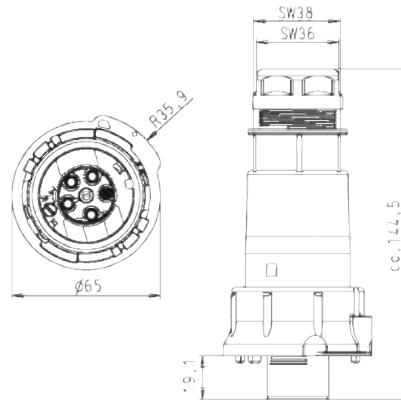



Bayonet lock with integrated protection against accidental disconnecting



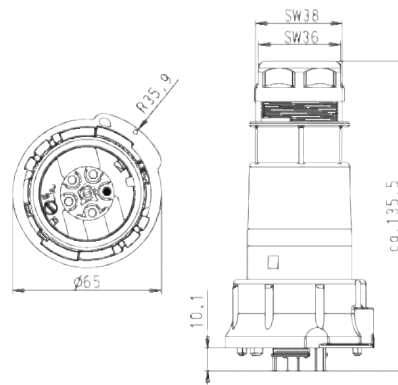
Connector with strain relief


Female connector



Application	Coding	Cable gland	Wire diameter mm	Color	Part No.	Part No.
					with screw connection	with crimp connection
					Wires	mm ²
					solid	from 4.0 to 6.0*)
					stranded	from 4.0 to 16.0
					flexible wires	VDE, UL, CSA being prepared
					Approvals	⊕, 1, 2, 3
					Pole markings.	order separately; see last page of section RST50i
					Pole markings.	
Power supply max. 50A		M32	15 – 25	black	97.041.4053.1	97.141.0053.1
		M40	20 – 32	black	97.041.4253.1	97.141.0253.1

Male connector

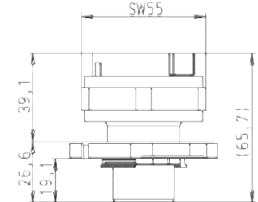
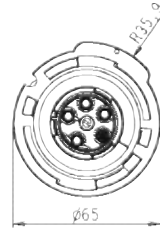


Application	Coding	Cable gland	Wire diameter mm	Color	Part No.	Part No.
					with screw connection	with crimp connection
					Wires	mm ²
					solid	from 4.0 to 6.0*)
					stranded	from 4.0 to 16.0
					flexible wires	VDE, UL, CSA being prepared
					Approvals	⊕, 1, 2, 3
					Pole markings.	order separately; see last page of section RST50i
					Pole markings.	
Power supply max. 50A		M32	15 – 25	black	97.042.4053.1	97.142.0053.1
		M40	20 – 32	black	97.042.4253.1	97.142.0253.1

*) Solid and stranded wires > 6.0 mm² cannot be connected in the available space due to their rigidity.

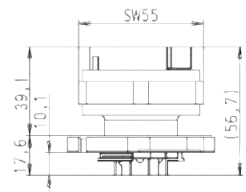
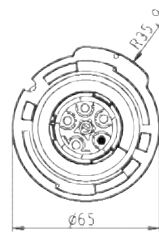
M32 device connector

Female connector



Application	Coding	Fixation with bolts	Color	Part No.	Part No.
Drilling template for device connectors fixed in position		fixed in position	black	with screw connection	with crimp connection
			black	Wires mm ²	Wires mm ²
Power supply max. 50A		not fixed in position	black	solid from 4.0 to 16.0	flexible wires from 4.0 to 10.0
				stranded from 4.0 to 16.0	Approvals VDE, UL, CSA being prepared
				flexible wires from 4.0 to 16.0	Pole markings. ⊕, 1, 2, 3
				Approvals VDE, UL, CSA being prepared	Crimp contacts order separately; see last page of section RST50i
				Pole markings. ⊕, 1, 2, 3	
				97.041.5553.1	97.141.1553.1
				97.041.5053.1	97.141.1053.1

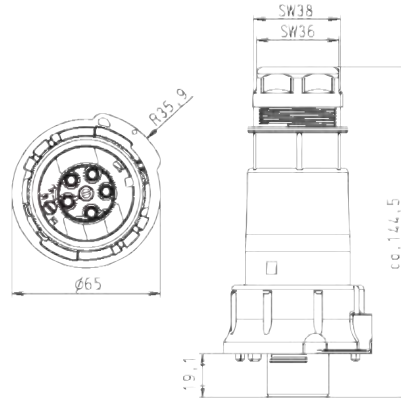
Male connector




Application	Coding	Fixation with bolts	Color	Part No.	Part No.
Drilling template for device connectors fixed in position		fixed in position	black	with screw connection	with crimp connection
			black	Wires mm ²	Wires mm ²
Power supply max. 50A		not fixed in position	black	solid from 4.0 to 16.0	flexible wires from 4.0 to 10.0
				stranded from 4.0 to 16.0	Approvals VDE, UL, CSA being prepared
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				97.042.5053.1	97.142.1053.1

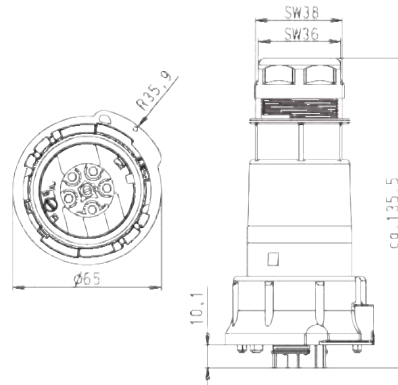
Connector with strain relief


Female connector



Application	Coding	Cable gland	Wire diameter mm	Color	Part No.	Part No.
					with screw connection	
					Wires	mm ²
					solid	from 4.0 to 6.0*)
					stranded	
					flexible wires	from 4.0 to 16.0
					Approvals	VDE, UL, CSA being prepared
					Pole markings.	⊕, 1, 2, 3, N
					with crimp connection	
					Wires	mm ²
					flexible wires	from 4.0 to 10.0
					Approvals	VDE, UL, CSA being prepared
					Pole markings.	⊕, 1, 2, 3, N
					Crimp contacts	order separately; see last page of section RST50i
Power supply max. 50A		M32	15 – 25	black	97.051.4053.1	97.151.0053.1
		M40	20 – 32	black	97.051.4253.1	97.151.0253.1

Male connector

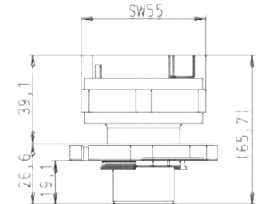
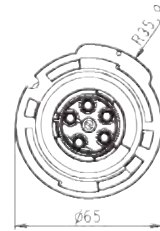


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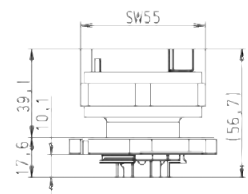
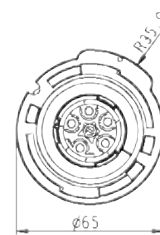
M32 device connector

Female connector



Application	Coding	Fixation with bolts	Color	Part No.	Part No.																				
Drilling template for device connectors fixed in position		fixed in position	black	with screw connection	with crimp connection																				
		not fixed in position	black	<table border="1"> <tr><td>Wires</td><td>mm²</td></tr> <tr><td>solid</td><td>from 4.0 to 16.0</td></tr> <tr><td>stranded</td><td>from 4.0 to 16.0</td></tr> <tr><td>flexible wires</td><td>from 4.0 to 16.0</td></tr> <tr><td>Approvals</td><td>VDE, UL, CSA being prepared</td></tr> <tr><td>Pole markings.</td><td>⊕, 1, 2, 3, N</td></tr> </table>	Wires	mm ²	solid	from 4.0 to 16.0	stranded	from 4.0 to 16.0	flexible wires	from 4.0 to 16.0	Approvals	VDE, UL, CSA being prepared	Pole markings.	⊕, 1, 2, 3, N	<table border="1"> <tr><td>Wires</td><td>mm²</td></tr> <tr><td>flexible wires</td><td>from 4.0 to 10.0</td></tr> <tr><td>Approvals</td><td>VDE, UL, CSA being prepared</td></tr> <tr><td>Pole markings.</td><td>⊕, 1, 2, 3, N</td></tr> <tr><td>Crimp contacts</td><td>order separately; see last page of section RST50i</td></tr> </table>	Wires	mm ²	flexible wires	from 4.0 to 10.0	Approvals	VDE, UL, CSA being prepared	Pole markings.	⊕, 1, 2, 3, N
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Crimp contacts	order separately; see last page of section RST50i																								
Power supply max. 50A				97.051.5553.1 97.051.5053.1	97.151.1553.1 97.151.1053.1																				

Male connector




Application	Coding	Fixation with bolts	Color	Part No.	Part No.																				
Drilling template for device connectors fixed in position		fixed in position	black	with screw connection	with crimp connection																				
		not fixed in position	black	<table border="1"> <tr><td>Wires</td><td>mm²</td></tr> <tr><td>solid</td><td>from 4.0 to 16.0</td></tr> <tr><td>stranded</td><td>from 4.0 to 16.0</td></tr> <tr><td>flexible wires</td><td>from 4.0 to 16.0</td></tr> <tr><td>Approvals</td><td>VDE, UL, CSA being prepared</td></tr> <tr><td>Pole markings.</td><td>⊕, 1, 2, 3, N</td></tr> </table>	Wires	mm ²	solid	from 4.0 to 16.0	stranded	from 4.0 to 16.0	flexible wires	from 4.0 to 16.0	Approvals	VDE, UL, CSA being prepared	Pole markings.	⊕, 1, 2, 3, N	<table border="1"> <tr><td>Wires</td><td>mm²</td></tr> <tr><td>flexible wires</td><td>from 4.0 to 10.0</td></tr> <tr><td>Approvals</td><td>VDE, UL, CSA being prepared</td></tr> <tr><td>Pole markings.</td><td>⊕, 1, 2, 3, N</td></tr> <tr><td>Crimp contacts</td><td>order separately; see last page of section RST50i</td></tr> </table>	Wires	mm ²	flexible wires	from 4.0 to 10.0	Approvals	VDE, UL, CSA being prepared	Pole markings.	⊕, 1, 2, 3, N
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Power supply max. 50A				97.052.5553.1 97.052.5053.1	97.152.1553.1 97.152.1053.1																				

Accessories


<p>Cover</p> 	<table border="1"> <thead> <tr> <th>Name</th> <th>Color</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>Cover</td> <td>black</td> <td>Z5.567.5653.0</td> </tr> </tbody> </table>  <p>For safe covering of unused male or female components</p>	Name	Color	Part No.	Cover	black	Z5.567.5653.0						
Name	Color	Part No.											
Cover	black	Z5.567.5653.0											
<p>Sample kit RST50i5</p> 	<table border="1"> <thead> <tr> <th>Name</th> <th>Color</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>Sample kit RST50i5</td> <td>black</td> <td>99.628.0000.0</td> </tr> </tbody> </table> <p>Trial set</p> <p>Complete kit including:</p> <ul style="list-style-type: none"> – Connectors – Device connection – Cover piece – Knock-out (metal sheet) 	Name	Color	Part No.	Sample kit RST50i5	black	99.628.0000.0						
Name	Color	Part No.											
Sample kit RST50i5	black	99.628.0000.0											
<p>Crimping tool with system kit</p> 	<table border="1"> <thead> <tr> <th>Name</th> <th>Color</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>Basic tool with system kit</td> <td></td> <td>95.101.0800.0</td> </tr> <tr> <td>Crimping die D</td> <td></td> <td>05.502.2300.0</td> </tr> <tr> <td>Contact positioner</td> <td></td> <td>05.502.3700.0</td> </tr> </tbody> </table>	Name	Color	Part No.	Basic tool with system kit		95.101.0800.0	Crimping die D		05.502.2300.0	Contact positioner		05.502.3700.0
Name	Color	Part No.											
Basic tool with system kit		95.101.0800.0											
Crimping die D		05.502.2300.0											
Contact positioner		05.502.3700.0											

Accessories


Crimp contacts Female contacts	Name	ID (groove) mm ²		Part No.
	Crimp contact	unmarked	4,0	02.126.0621.8
	Crimp contact	1	6,0	02.126.0721.8
	Crimp contact	unmarked	10,0	02.126.0821.8



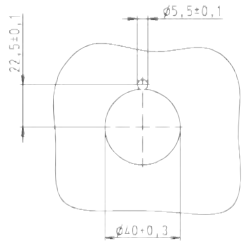
Crimp contacts Male contacts	Name	ID (groove) mm ²		Part No.
	Crimp contact	unmarked	4,0	05.545.2821.8
	Crimp contact	1	6,0	05.545.2921.8
	Crimp contact	unmarked	10,0	05.545.3021.8



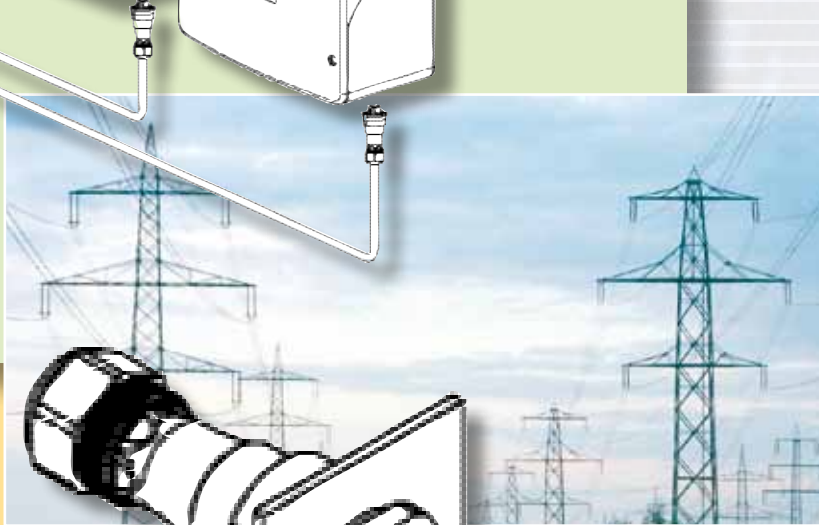
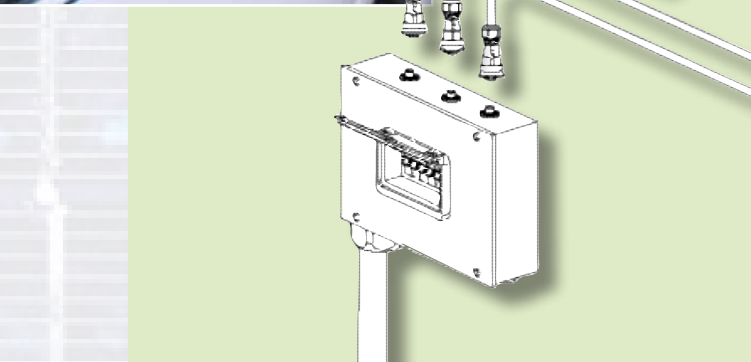
Adapter ring 40 mm	Name	Color	Part No.
	Adapter ring	black	05.568.1853.0



For fixing the device connector inside 40 mm knock-outs



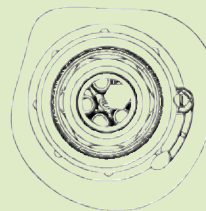
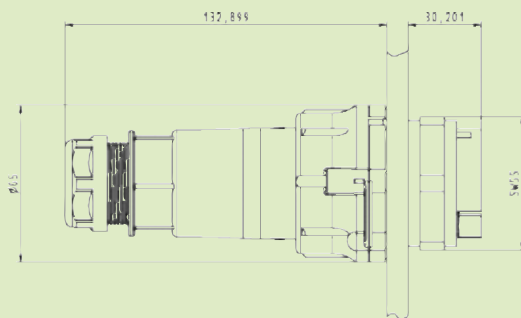
Technical Data RST 50i4...i5.



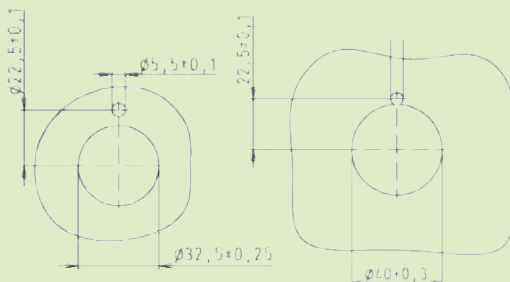
Convincing technology

RST50i 4 pole/5 pole

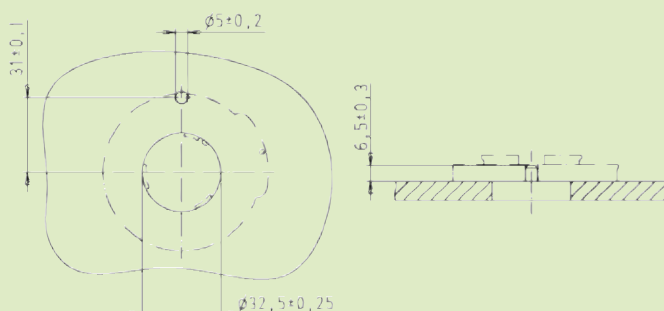
Rated voltage:	250/400V
Rated current:	50A
Rated cross-section:	rigid cables with 4.0mm ² to 6.0 mm ² for plug connectors (up to 16 mm ² with device connectors) fine-stranded cables with 4.0 mm ² to 16.0 mm ²
Number of poles:	4 pole 5 pole
Pole designation:	1, 2, 3, ⊕ 1, 2, 3, N, ⊕
Material:	Contact parts: brass, surface-plated Housing parts: thermoplastic material PA 66, halogen-free, V2 Sealing material NBR, TPE
Degree of protection:	IP65, IP66, IP67
Approvals:	VDE, UL, CSA being prepared
Sheath strip length:	70 mm
Insulation strip length:	Screw 10 mm (crimp 11 mm)
Torques:	Cable gland S34: 12 Nm; S42: 14 Nm



Hole pattern for M32 device connectors,
alternative M40 with adapter ring
(fixed in position)



Alternative fixed in position (cams on the housing)



Your support team

Sales:
Questions for Sales regarding availability,
delivery periods and prices
Phone: +49 951 93 24-990

Technical customer support:
Technical questions about product features
and applications of our products as well as
functioning and accessories

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Industrial technology

Solutions for the control cabinet

- DIN rail terminal blocks
 - Screw, spring clamp or IDC connection technology
 - Wire cross sections up to 240 mm²
 - Numerous special functions
 - Software solutions interfacing to CAE systems
- Safety
 - Safety sensors
 - Safety relays
 - Modular safety systems with fieldbus link
- PLC and fieldbus components
 - Standard applications in IP20
 - Increased environmental conditions with railroad and ship approvals
- Interface
 - Coupling relays, semiconductor switches
 - Measuring and monitoring relays
 - Timer and switching relays
 - Analog modules
 - Passive interfaces
 - Power supply units
 - Overvoltage protection

Solutions for field applications

- Remote automation technology
 - Power distribution
 - Fieldbus interfaces and motor starters
- Connectors for industrial applications
 - Square and round connectors
 - Aluminum or plastic housings
 - Degree of protection up to IP68
 - Current-carrying capacity up to 100 A
 - Connectors for hazardous areas
 - Modular, application specific technology

PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- Reflow or wave soldering process

Building and installation technology

- Building installation systems
 - Main power supply connectors IP20/IP65...IP68
 - Bus connectors
 - Combined connectors
 - Low-voltage connectors
 - Power distribution system with flat cables
 - Distribution systems
 - Bus systems in KNX, LON and radio technology
 - DIN rail terminal blocks for electrical installations
 - Overvoltage protection

**contacts
are
green.**

Product Range