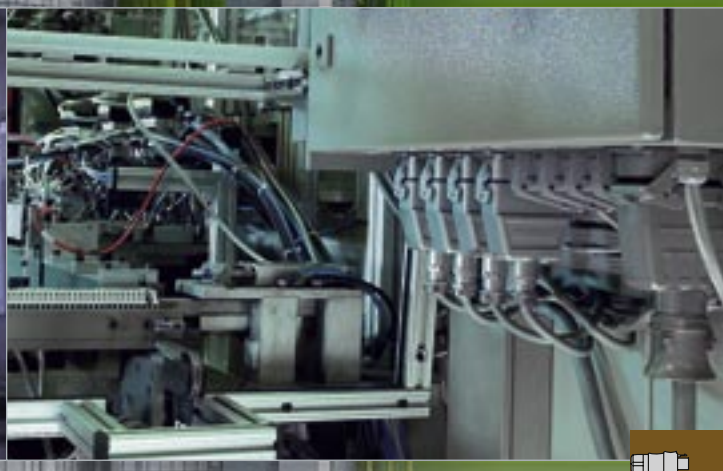
gesis® IP 65...IP 68



Installation with a system

Installation with a system…
…meets all protection degrees between IP65 and IP68

Whether in mechanical engineering, on ocean liners or at industrial sites: electrical installations requiring increased degrees of protection are becoming more common.
It is extremely important, particularly in these areas, that the installation is performed by an expert. But how does it work in practice?

Difficult installation conditions and severe time pressure can often lead to errors, loss of protection and finally to the failure of the system.

As a complete installation system, ***gesis*** IP+ is optimally adapted to these increased requirements. It is very flexible in its application and has proven technology at its disposal. These factors are necessary prerequisites for a reliable and safe installation solution in the field. The choice of system components offers solutions for each type of installation. Initial installations as well as modifications and additions, can quickly be implemented according to the "Lego principle". This is an important point in reducing operational downtimes to a minimum.

As a market innovation, **Wieland** transfers the successful ***gesis*** installation philosophy into a new market segment and sets new standards.

See for yourself!

The system

Components and functions

Connectors for self-assembly	= Incoming supply
Distribution blocks with mounting facilities	= Distribution
Cable assemblies	= Routing
Appliance connectors	= Connection to consumer devices




Winner of the
DESIGN PLUS
Award

Design and benefits of RST 20i3

IP65...IP68	= Use in rough environments
20 A	= Wide area of applications
Spring and screw technology	= Simple and safe connection
Precise number of parts	= Minimum assembly effort

RST 20i3

Mains, 3 pole, IP65...IP68

The *gesis* installation philosophy:

The idea is as simple as it is brilliant. An extensive network of pre-assembled and completely tested components of electrical connection technology enables a consistently pluggable solution from the distribution panel to each device.

This saves time and reduces the costs!

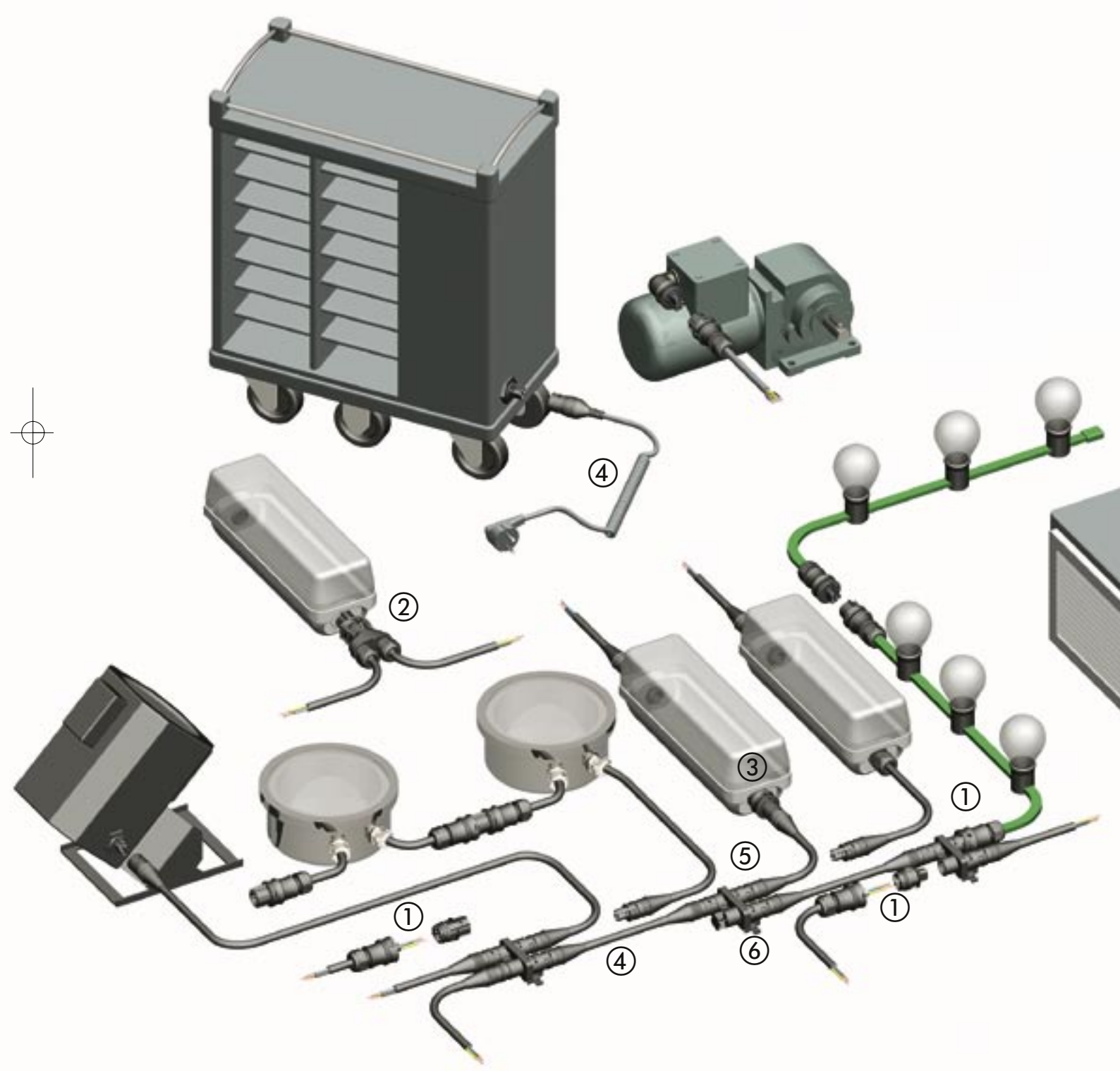
A large number of well-known manufacturers have recognized this positive trend and, as system partners, already offer their components with pluggable ***gesis*** connectors. The system's fields of application are as versatile as the system itself. In short: Wherever electrical power or signals need to be distributed, ***gesis*** has set a standard.

Areas of application

- Parking garages, underground garages
- Airports
- Warehouses, stadiums
- Gas stations, tunnel construction
- Greenhouses, elevator technology
- Temporary lighting for building sites
- Industrial plants, car washes
- Fairground business, marquees
- Shipbuilding
- Traffic signals
- Device and appliance construction
- Train stations, kiosks
- Street lighting, crane technology
- Light signs
- Decorative lighting

Ebeling Licht GmbH

System description



RST 20i3

Mains, 3 pole, IP65...IP68

① Connectors

Connectors can be pre-assembled wired. Among other functions they serve as an incoming supply for the ***gesis*** IP+ system. Connectors with male and female components are delivered complete with strain relief and are compatible with all common cable types. A special variation also enables the installation of illumination cables for decorative lighting systems. Depending on the requirement, the connectors are available with spring-loaded or screw technology.

② Splitter connectors

Connectors can be pre-assembled on site and are designed for daisy-chaining lighting fixtures. All connectors are delivered complete with strain relief and are compatible with all common cable types. Depending on the requirement, the connectors are available with spring-loaded or screw technology.

③ Appliance connectors

Appliance couplers are integrated directly into device housings. They are the device's interface to the ***gesis*** IP+ system. The devices can therefore be simply plugged in on site and integrated into the installation. Two spring-loaded connections are available per pole for internal wiring.

④ Cable assemblies

Electrical power is supplied by using these cable assemblies. Three basic versions are available:

Mains connection cables provide the incoming supply of the ***gesis*** IP+ system. They have been prepared for a traditional connection on the supply side and are pre-assembled with the required female connector on the outgoing side. Extension cables are pre-assembled with a female or male connector on the relevant cable ends designed for feed-through wiring. A connection cable is pre-assembled with a male connector and a free end for wiring to the consumer device.

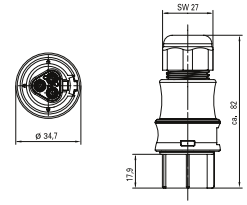
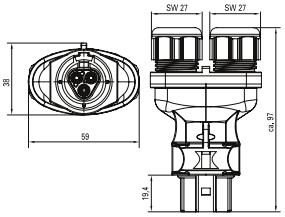
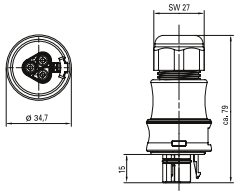
⑤ Distribution blocks

The pre-assembled plug-in distribution blocks are designed for tapping off to the consumer devices. The distribution block is available with or without mounting flanges.

⑥ End caps

Are used to safely cover open contacts. The IP protection is therefore maintained when the device is unplugged.

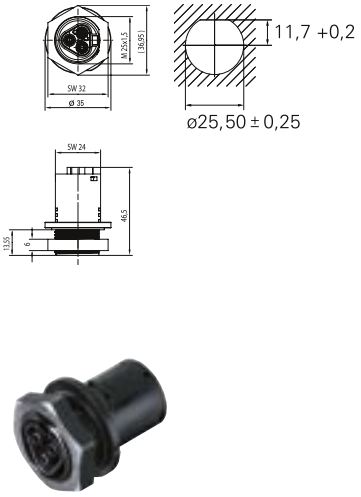
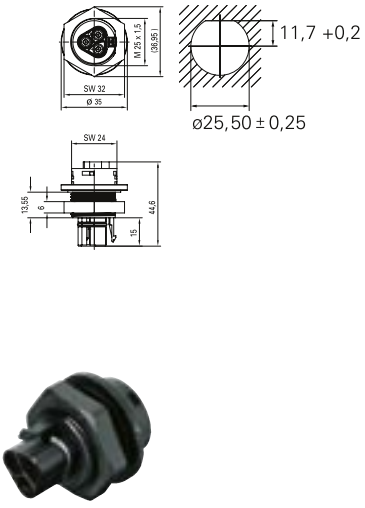
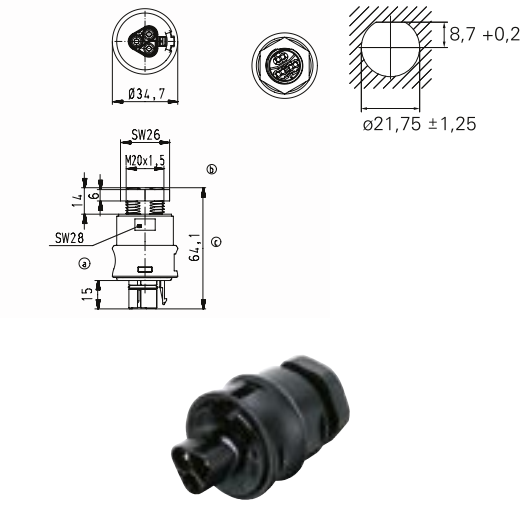
Connectors

		Connector		Connector		Splitter connector		Splitter connector	
		with spring-loaded connection for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 - 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. Unassembled with cable gland[1] and locking device. See "Technical Data" for sheath and insulation strip lengths as well as the ferrules to be used.		**with screw connection**[2] for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². Unassembled with cable gland[1] and locking device. See "Technical Data" for sheath and insulation strip lengths.		**with spring-loaded connection,** for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. Unassembled with cable gland[1] and locking device. See "Technical data" for insulation and sheath strip lengths as well as the ferrules that are to be used.		**with screw connection**[2] for rigid, fine-stranded and stranded cables of 0.75 mm² – 2.5 mm². Unassembled with cable gland[1] and locking device. See "Technical data" for insulation and sheath strip lengths.	
Cable	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Female connector		 				 			
Ø 6 – 10 mm	gray	96.031.0053.0		96.031.4053.0		96.031.0253.0		96.031.4253.0	
	black	96.031.0053.1		96.031.4053.1		96.031.0253.1		96.031.4253.1	
Ø 10 – 14 mm	gray	96.031.0153.0		96.031.4153.0		96.031.0353.0		96.031.4353.0	
	black	96.031.0153.1		96.031.4153.1		96.031.0353.1		96.031.4353.1	
Cable	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	
Male connector		 							
Ø 6 - 10 mm	gray	96.032.0053.0		96.032.4053.0					
	black	96.032.0053.1		96.032.4053.1					
Ø 10 - 14 mm	gray	96.032.0153.0		96.032.4153.0					
	black	96.032.0153.1		96.032.4153.1					
for illumination cable[3] H05RNH2-F 2 x 1.5 mm²	gray	96.022.0453.0		96.022.4453.0					
	black	96.022.0453.1		96.022.4453.1					

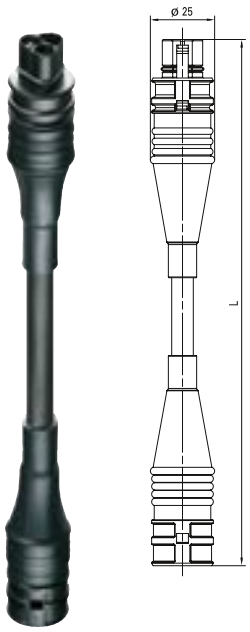
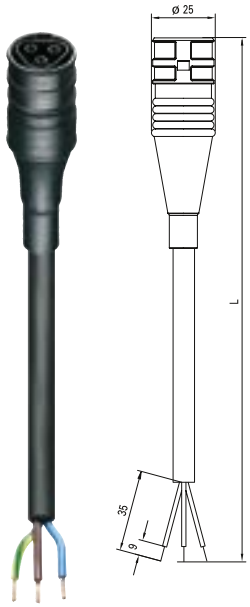
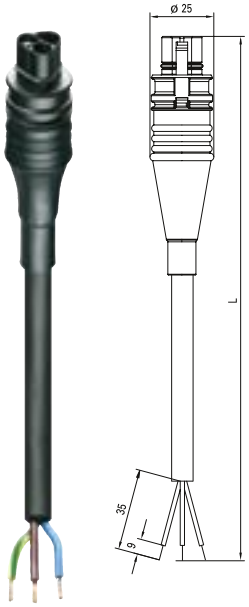
[1] Cable gland with bend protection available on request
[2] With wire protection available on request
[3] Ground contact not equipped

Appliance connectors

RST 20i3

	Appliance connector standard, M25	Appliance connector standard, M25	Appliance connector modular, M20	Appliance connector modular, M20
	with spring-loaded connection for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 - 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, external cable gland. See "Technical Data" for insulation strip lengths and the ferrules to be used.	**with screw connection**[2] for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm² with ferrules. 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, external cable gland. See "Technical Data" for insulation strip lengths.	**with spring-loaded connection** for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 - 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland. See "Technical Data" for insulation strip lengths and the ferrules to be used.	**with screw connection**[2] for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm² with ferrules. 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland. See "Technical Data" for insulation strip lengths.
Color	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack
Female connector				
gray black	96.031.1053.0 96.031.1053.1	96.031.5053.0 96.031.5053.1	96.031.2053.0 96.031.2053.1	96.031.6053.0 96.031.6053.1
Color	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack
Male connector				
gray black	96.032.1053.0 96.032.1053.1	96.032.5053.0 96.032.5053.1	96.032.2053.0 96.032.2053.1	96.032.6053.0 96.032.6053.1

Cable assemblies, 1.5 mm²

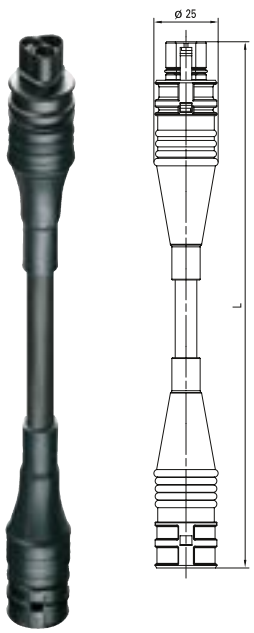
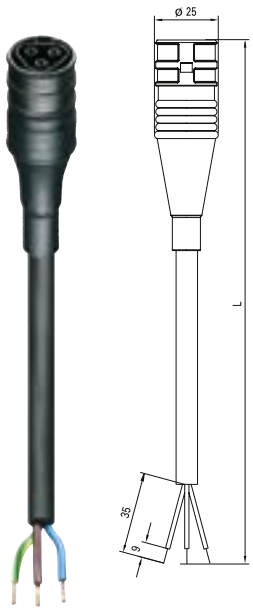
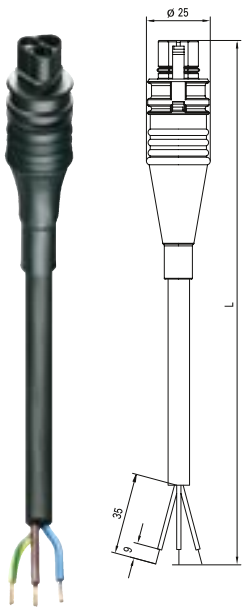
			Extension cable	Connection cable	Connection cable
			3 x 1.5 mm² **Female – Male** with locking device	**3 x 1.5 mm²** **Female – Free end** with ultrasonically welded wire ends[3] Sheath strip length: 35 mm Insulation strip length: 9 mm Cable diameter[3]: HO5VV: 7.4 – 9.4 mm HO7RNF: 9.2 – 11.9 mm	**3 x 1.5 mm²** **Male – Free end** with ultrasonically welded wire ends and locking device Sheath strip length: 35 mm Insulation strip length: 9 mm Cable diameter[3]: HO5VV: 7.4 – 9.4 mm HO7RNF: 9.2 – 11.9 mm
Cable assemblies					
Cable [1]	Color	Length[2]	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack
H05VV	gray	1.0 m	96.232.1000.0	96.232.1003.0	96.232.1004.0
		2.0 m	96.232.2000.0	96.232.2003.0	96.232.2004.0
		3.0 m	96.232.3000.0	96.232.3003.0	96.232.3004.0
		4.0 m	96.232.4000.0	96.232.4003.0	96.232.4004.0
		5.0 m	96.232.5000.0	96.232.5003.0	96.232.5004.0
		6.0 m	96.232.6000.0	96.232.6003.0	96.232.6004.0
	Cable:	7.0 m	96.232.7000.0	96.232.7003.0	96.232.7004.0
	black	8.0 m	96.232.8000.0	96.232.8003.0	96.232.8004.0
	black	1.0 m	96.232.1000.1	96.232.1003.1	96.232.1004.1
		2.0 m	96.232.2000.1	96.232.2003.1	96.232.2004.1
		3.0 m	96.232.3000.1	96.232.3003.1	96.232.3004.1
		4.0 m	96.232.4000.1	96.232.4003.1	96.232.4004.1
		5.0 m	96.232.5000.1	96.232.5003.1	96.232.5004.1
		6.0 m	96.232.6000.1	96.232.6003.1	96.232.6004.1
	Cable:	7.0 m	96.232.7000.1	96.232.7003.1	96.232.7004.1
	black	8.0 m	96.232.8000.1	96.232.8003.1	96.232.8004.1
H07RNF	gray	1.0 m	96.232.1030.0	96.232.1033.0	96.232.1034.0
		2.0 m	96.232.2030.0	96.232.2033.0	96.232.2034.0
		3.0 m	96.232.3030.0	96.232.3033.0	96.232.3034.0
		4.0 m	96.232.4030.0	96.232.4033.0	96.232.4034.0
		5.0 m	96.232.5030.0	96.232.5033.0	96.232.5034.0
		6.0 m	96.232.6030.0	96.232.6033.0	96.232.6034.0
	Cable:	7.0 m	96.232.7030.0	96.232.7033.0	96.232.7034.0
	black	8.0 m	96.232.8030.0	96.232.8033.0	96.232.8034.0
	black	1.0 m	96.232.1030.1	96.232.1033.1	96.232.1034.1
		2.0 m	96.232.2030.1	96.232.2033.1	96.232.2034.1
		3.0 m	96.232.3030.1	96.232.3033.1	96.232.3034.1
		4.0 m	96.232.4030.1	96.232.4033.1	96.232.4034.1
		5.0 m	96.232.5030.1	96.232.5033.1	96.232.5034.1
		6.0 m	96.232.6030.1	96.232.6033.1	96.232.6034.1
	Cable:	7.0 m	96.232.7030.1	96.232.7033.1	96.232.7034.1
	black	8.0 m	96.232.8030.1	96.232.8033.1	96.232.8034.1

[1] Other cables available on request
[2] Other lengths available on request
[3] According to VDE0281, T5 and VDE0288, T4

Cable assemblies, 2.5 mm²

RST 20i3

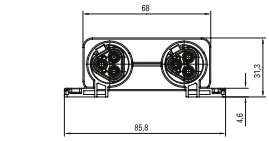
Mains, 3 pole, IP65...IP68

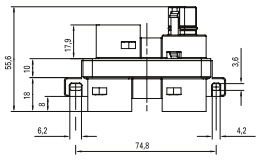
	Extension cable	Connection cable	Connection cable
	3 x 2.5 mm² **Female – Male** with locking device	**3 x 2.5 mm²** **Female – Free end** with ultrasonically welded wire ends[3] Sheath strip length: 35 mm Insulation strip length: 9 mm Cable diameter[3]: HO5VV: 9.2 – 11.4 mm HO7RNF: 10.9 – 14.0 mm	**3 x 2.5 mm²** **Male – Free end** with ultrasonically welded wire ends and locking device Sheath strip length: 35 mm Insulation strip length: 9 mm Cable diameter[3]: HO5VV: 9.2 – 11.4 mm HO7RNF: 10.9 – 14.0 mm
			
Length[2]	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack
1.0 m	96.233.1000.0	96.233.1003.0	96.233.1004.0
2.0 m	96.233.2000.0	96.233.2003.0	96.233.2004.0
3.0 m	96.233.3000.0	96.233.3003.0	96.233.3004.0
4.0 m	96.233.4000.0	96.233.4003.0	96.233.4004.0
5.0 m	96.233.5000.0	96.233.5003.0	96.233.5004.0
6.0 m	96.233.6000.0	96.233.6003.0	96.233.6004.0
7.0 m	96.233.7000.0	96.233.7003.0	96.233.7004.0
8.0 m	96.233.8000.0	96.233.8003.0	96.233.8004.0
1.0 m	96.233.1000.1	96.233.1003.1	96.233.1004.1
2.0 m	96.233.2000.1	96.233.2003.1	96.233.2004.1
3.0 m	96.233.3000.1	96.233.3003.1	96.233.3004.1
4.0 m	96.233.4000.1	96.233.4003.1	96.233.4004.1
5.0 m	96.233.5000.1	96.233.5003.1	96.233.5004.1
6.0 m	96.233.6000.1	96.233.6003.1	96.233.6004.1
7.0 m	96.233.7000.1	96.233.7003.1	96.233.7004.1
8.0 m	96.233.8000.1	96.233.8003.1	96.233.8004.1
1.0 m	96.233.1030.0	96.233.1033.0	96.233.1034.0
2.0 m	96.233.2030.0	96.233.2033.0	96.233.2034.0
3.0 m	96.233.3030.0	96.233.3033.0	96.233.3034.0
4.0 m	96.233.4030.0	96.233.4033.0	96.233.4034.0
5.0 m	96.233.5030.0	96.233.5033.0	96.233.5034.0
6.0 m	96.233.6030.0	96.233.6033.0	96.233.6034.0
7.0 m	96.233.7030.0	96.233.7033.0	96.233.7034.0
8.0 m	96.233.8030.0	96.233.8033.0	96.233.8034.0
1.0 m	96.233.1030.1	96.233.1033.1	96.233.1034.1
2.0 m	96.233.2030.1	96.233.2033.1	96.233.2034.1
3.0 m	96.233.3030.1	96.233.3033.1	96.233.3034.1
4.0 m	96.233.4030.1	96.233.4033.1	96.233.4034.1
5.0 m	96.233.5030.1	96.233.5033.1	96.233.5034.1
6.0 m	96.233.6030.1	96.233.6033.1	96.233.6034.1
7.0 m	96.233.7030.1	96.233.7033.1	96.233.7034.1
8.0 m	96.233.8030.1	96.233.8033.1	96.233.8034.1

Distribution block, 1E/3A

with locking device,
1 input, male connector, 3 pole,
3 outputs, female connector 3 pole

With mounting flange





Color	Part No.	Std. Pack
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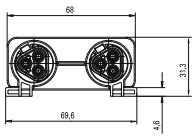
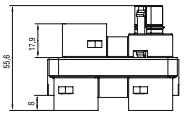
black	96.030.0153.1	

Without mounting flange





Color	Part No.	Std. Pack
gray	96.030.0253.0	
black	96.030.0253.1	

Distribution box

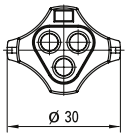
The individual distribution boxes offer optimum solutions for your specific application.
The distribution boxes are available in different dimensions and can accept DIN rail mounted devices and terminal blocks in any combination. Further connection to the consumer devices is accomplished by the ***gesis*** IP+ connector system. Distribution blocks manufactured and tested according to specific customer requirements can be delivered to the construction site as pre-assembled components.
The locking devices are already integrated.

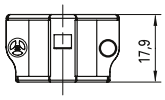
Part No.	Std. Pack
available on request	
available on request	

End caps

For safely covering open male or female connectors.

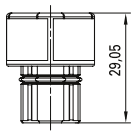
For covering open male connectors





Part No.	Std. Pack
05.564.4453.0	
05.564.4453.1	

For covering open female connectors



Part No.	Std. Pack
Z5.564.4553.0	
Z5.564.4553.1	

RST 5 pole

Extension of the existing system with a 5 pole variant. Its extremely compact design makes the system so outstanding. The connector consists of only two individual parts and is extraordinarily installation-friendly.
Components:
– Connector, device connections and pre-assembled cables
– Individual customized distribution boxes available on request

Part No. Std. Pack

Electrical installations in the field of functional, mechanical and system engineering are the main areas of application.

Sample kit

RST20i3

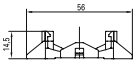
Contents:
– Connector
– Appliance couplers
– Distribution boxes
– Cable assemblies
– Locking pieces

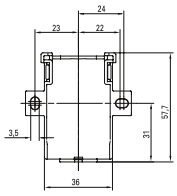
Part No. Std. Pack

99.488.0000.0

Part No. Std. Pack

Mounting flange for splitter connectors





01.006.1553.1
01.006.1553.0