





Installation with a system

Installation with a system...

...meets all protection degrees between IP 65 and IP 68

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.

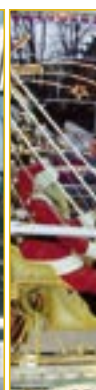
As a complete installation system, **gesis** IP+ is optimally adapted to these increased requirements. It is very flexible in its application and has proven technology at its disposal.

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

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

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!

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

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!

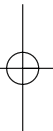
A large number of well-known manufacturers have recognized this positive trend and, as system partners, already offer their components with pluggable ***gesis*** connectors. The system's fields of application are as versatile as the system itself. In short: Wherever electrical power or signals need to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

Areas of application

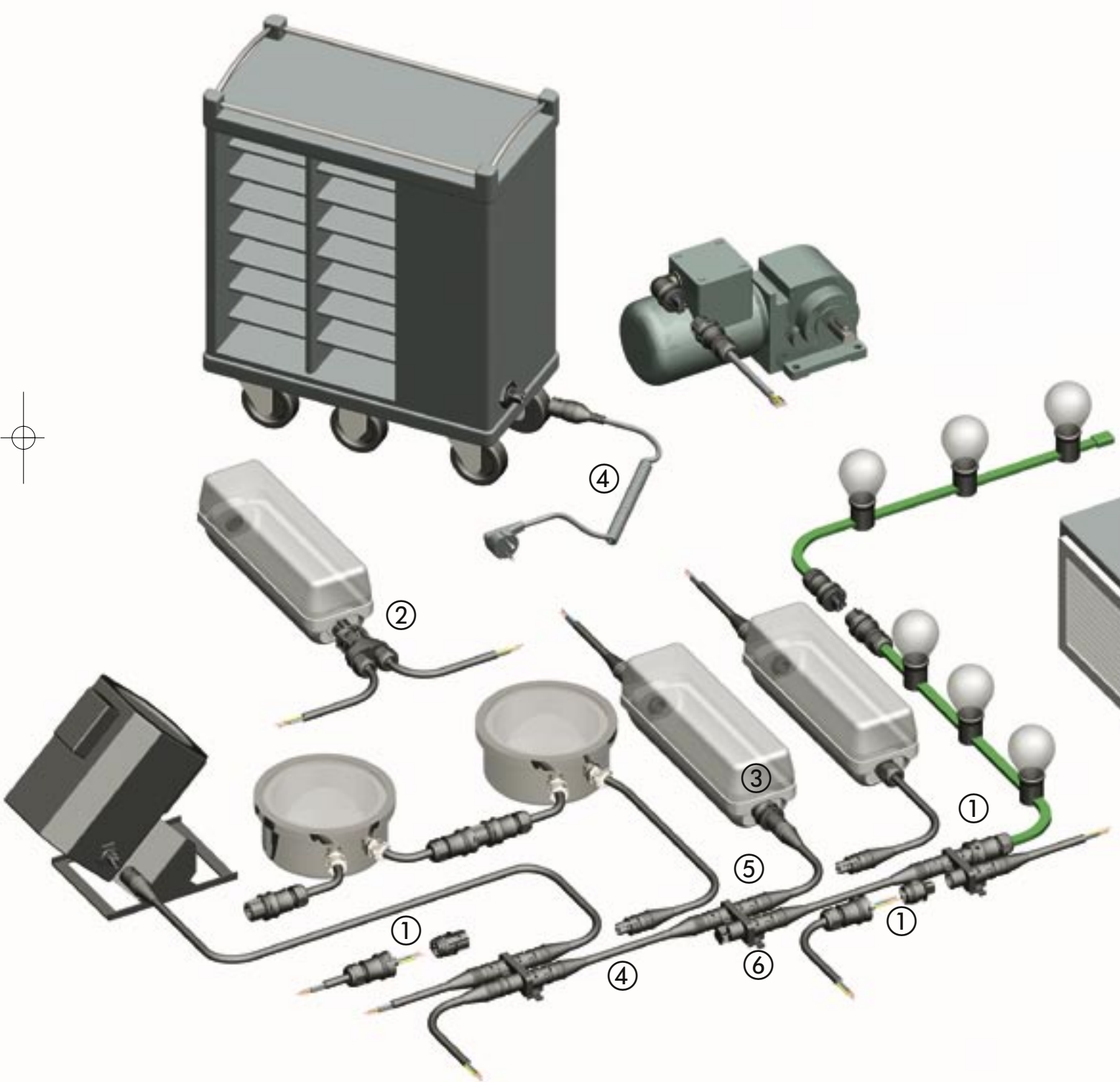
- Parking garages, underground garages
- Airports
- Warehouses, stadiums
- Gas stations, tunnel construction
- Greenhouses, elevator technology
- Temporary lighting for building sites
- Industrial plants, car washes
- Fairground business, marquees
- Shipbuilding
- Traffic signals
- Device and appliance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



Ebeling Licht GmbH



System description



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:

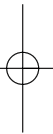
Mains connection cables provide the incoming supply of the **gesis** IP+ system. They have been prepared for a traditional connection on the supply side and are pre-assembled with the required female connector on the outgoing side. Extension cables are pre-assembled with a female or male connector on 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

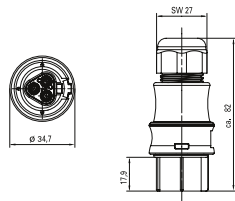
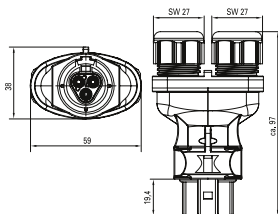
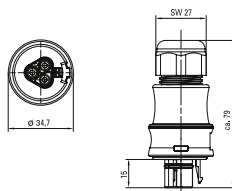
The pre-assembled plug-in distribution blocks are designed for tapping off to the consumer devices. The distribution block is available with or without mounting flanges.

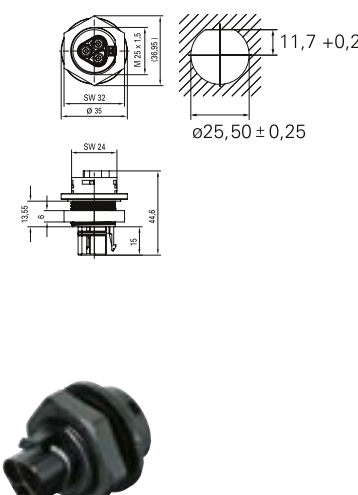
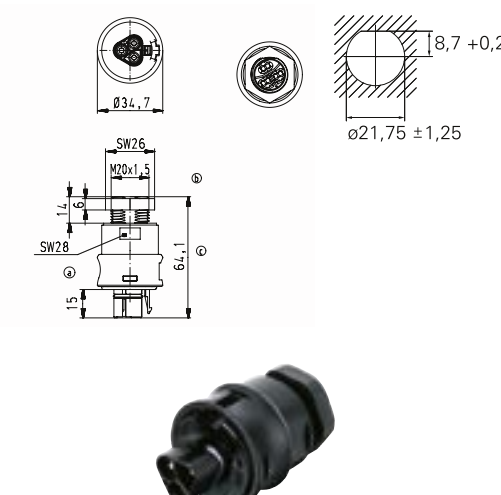
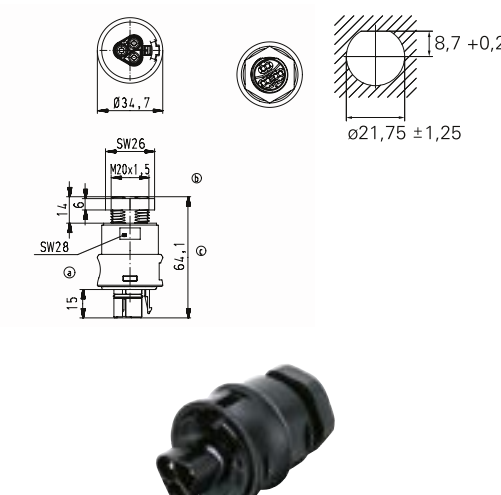
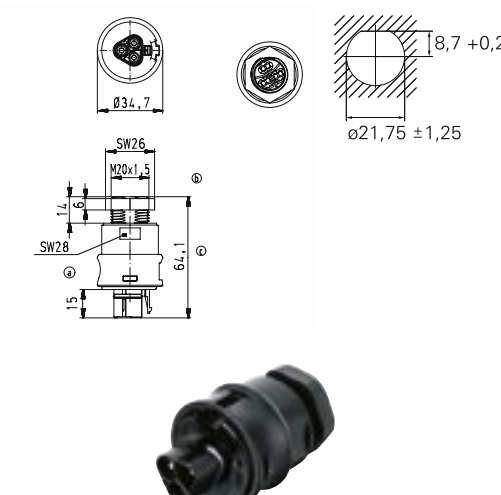
⑥ End caps

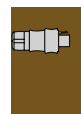
Are used to safely cover open contacts. The IP protection is therefore maintained when the device is unplugged.



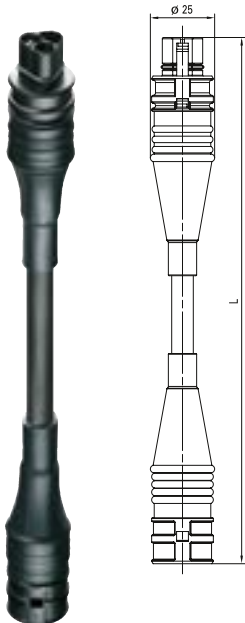
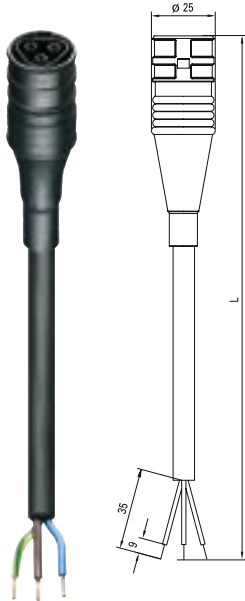
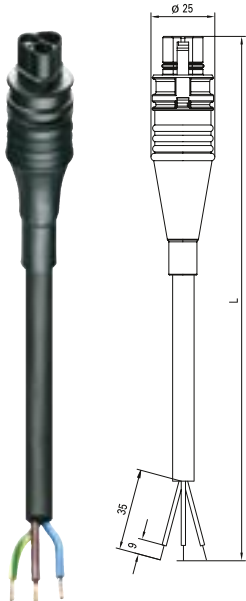
Connectors

Connector		Connector		Splitter connector		Splitter connector			
with spring-loaded connection for rigid cables of 0.5 – 2.5 mm ² , fine-stranded cables of 0.5 - 1.5 mm ² with ferrules, stranded cables of 0.75 – 1.5 mm ² with ferrules. Unassembled with cable gland ¹⁾ and locking device.		with screw connection²⁾ for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm ² . Unassembled with cable gland ¹⁾ and locking device.		with spring-loaded connection , for rigid cables of 0.5 – 2.5 mm ² , fine-stranded cables of 0.5 – 1.5 mm ² with ferrules, stranded cables of 0.75 – 1.5 mm ² with ferrules. Unassembled with cable gland ¹⁾ and locking device.		with screw connection²⁾ for rigid, fine-stranded and stranded cables of 0.75 mm ² – 2.5 mm ² . 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.		See “Technical Data” for sheath and insulation strip lengths.		See “Technical data” for insulation and sheath strip lengths as well as the ferrules that are to be used.		See “Technical data” for insulation and sheath strip lengths.			
Cable	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack		
Female connector									
Ø 6 – 10 mm	gray black	96.031.0053.0 96.031.0053.1		96.031.4053.0 96.031.4053.1		96.031.0253.0 96.031.0253.1	96.031.4253.0 96.031.4253.1		
Ø 10 – 14 mm	gray black	96.031.0153.0 96.031.0153.1		96.031.4153.0 96.031.4153.1		96.031.0353.0 96.031.0353.1	96.031.4353.0 96.031.4353.1		
Cable	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack		
Male connector									
Ø 6 - 10 mm	gray black	96.032.0053.0 96.032.0053.1		96.032.4053.0 96.032.4053.1					
Ø 10 - 14 mm	gray black	96.032.0153.0 96.032.0153.1		96.032.4153.0 96.032.4153.1					
for illumination cable ³⁾ H05RNH2-F 2 x 1.5 mm ²	gray black	96.022.0453.0 96.022.0453.1		96.022.4453.0 96.022.4453.1					
		¹⁾ Cable gland with bend protection available on request ²⁾ With wire protection available on request							

	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 connection²⁾ 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 connection²⁾ 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 mm ² Female – Male with locking device		3 x 1.5 mm ² 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 mm ² 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	
		7.0 m	96.232.7000.0		96.232.7003.0		96.232.7004.0	
		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	
		7.0 m	96.232.7000.1		96.232.7003.1		96.232.7004.1	
		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	
		7.0 m	96.232.7030.0		96.232.7033.0		96.232.7034.0	
		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	
		7.0 m	96.232.7030.1		96.232.7033.1		96.232.7034.1	
		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

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 ends³⁾

Sheath strip length: 35 mm

Insulation strip length: 9 mm

Cable diameter³⁾:

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

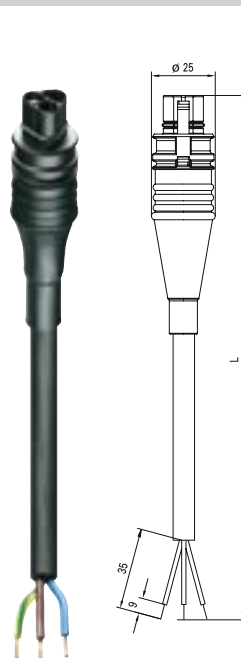
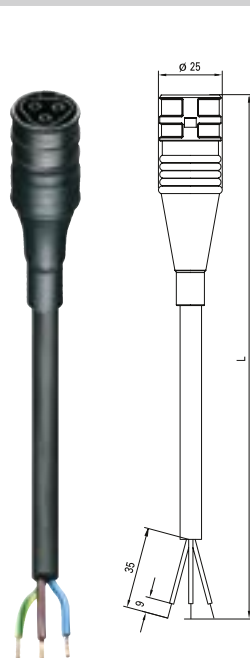
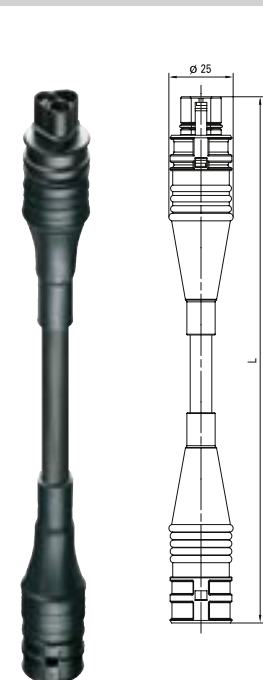
Sheath strip length: 35 mm

Insulation strip length: 9 mm

Cable diameter³⁾:

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
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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	
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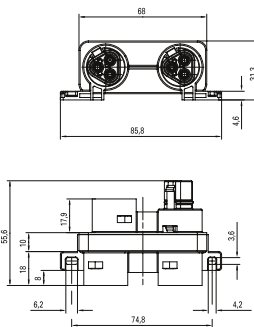
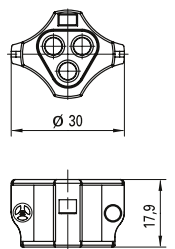
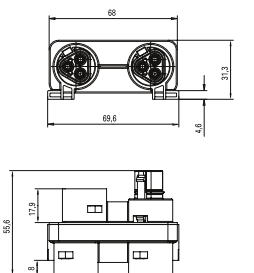
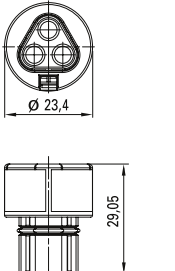
1.0 m	96.233.1030.1		96.233.1033.1		96.233.1034.1	
2.0 m	96.233.2030.1		96.233.2033.1		96.233.2034.1	
3.0 m	96.233.3030.1		96.233.3033.1		96.233.3034.1	
4.0 m	96.233.4030.1		96.233.4033.1		96.233.4034.1	
5.0 m	96.233.5030.1		96.233.5033.1		96.233.5034.1	
6.0 m	96.233.6030.1		96.233.6033.1		96.233.6034.1	
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

Distribution block, 1E/3A

Distribution box

End caps

	with locking device, 1 input, male connector, 3 pole, 3 outputs, female connector 3 pole		Distribution box		End caps			
	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.				For safely covering open male or female connectors.			
Color	Part No.	Std. Pack	Part No.	Std. Pack		Part No.	Std. Pack	
With mounting flange	 				For covering open male connectors	 		
	gray black	96.030.0153.0 96.030.0153.1	available on request available on request			05.564.4453.0 05.564.4453.1		
Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Without mounting flange	 				For covering open female connectors	 		
	gray black	96.030.0253.0 96.030.0253.1				Z5.564.4553.0 Z5.564.4553.1		

RST 5 pole

Sample kit

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

RST20i3

Contents:

- Connector
- Appliance couplers
- Distribution boxes
- Cable assemblies
- Locking pieces

Part No. Std. Pack

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



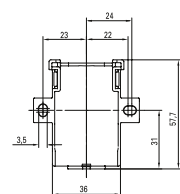
Part No. Std. Pack



99.488.0000.0

Part No. Std. Pack

Mounting flange for splitter connectors



01.006.1553.1
01.006.1553.0

