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AT Wieland

Components and system components
for the control cabinet

- DIN rail terminal blocks
 - with screw connection
 - with spring clamp connection
 - with IDC connection
- Safety
 - Safety relays
 - Modular safety systems
- Fieldbus components
- Interface
 - Power supplies
 - Overvoltage protection
 - Measuring and monitoring relays
 - Time and switching relays
 - Coupling relays/solid state relays
 - Analog modules
 - Passive interfaces

Components and system components
for field applications

- Remote automation
 - Remote power distribution
 - Remote fieldbus interface
- Industrial multipole connectors
 - Modular multipole connectors
 - High-density multipole connectors
 - High-current multipole connectors
 - Multipole connectors for hazardous areas
 - Bushings for control cabinets
 - D-Sub connectors
- Round connectors

Empty housings and appliance
connectors/terminal strips

BIT Wieland

- Building installation systems
 - Mains connectors IP20/IP65...IP68
 - Bus connectors
 - Combined connectors
 - Low-voltage connectors
 - Flexible flat cable systems
 - Distribution systems
 - Switching devices for EIB/KNX, LON, Ethernet, radio control
 - DIN rail terminal blocks for electrical installations
 - Overvoltage protection

PCB connectors Wieland

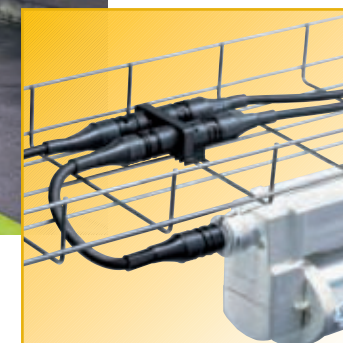
- PC board connectors
 - with screw connection
 - with spring clamp connection
 - with TOP connection



gesis® IP+

Installation system in IP 65 ... IP 68

For use in rough
environments



The Wieland Group

Wieland Electric

was founded in 1910 in Bamberg. With its 1350 staff members it is the biggest of the three subsidiaries within the company group of Wieland Holding. With its numerous innovations, Wieland Electric has become the major supplier of electrical connection technology. The export share is currently at 58%.

In the business unit of building system technology, Wieland Electric, with its **gesis**® system, has even become the world market leader in the field of pluggable electrical installation systems.

Photo of Bamberg taken from above



One company group, a thousand possibilities

The philosophy of the Wieland Group with its headquarters in Bamberg can be summarized that simply. The three independent subsidiaries, Wieland Electric, STOCKO Contact and Schleicher Electronic, are active under the roof of the Wieland Holding.

Together they cover an extraordinarily wide product portfolio in the field of electrical engineering and electronics.

Wieland headquarters around 1910



Photo of the Bamberg headquarters taken from above



Not without reason do planners and architects of the highest and most interesting construction projects worldwide such as the Petronas Towers in Kuala Lumpur count on the **gesis**® components from Wieland. Wieland is the pioneer on a path towards the "intelligent home" by consistently developing its **gesis**® product range, especially in view of the options of electronic networking.

STOCKO Contact is located in North Rhine-Westphalia's Wuppertal and has been a member of the Wieland Group since 2001. The company can look back at a history of more than 100 years. STOCKO Contact is one of the major European manufacturers of connector systems and crimp contacts.

But also in its second company sector, automation technology, Wieland Electric presents itself as a motor for innovation in the industry. **podis**®, the solution-oriented system for remote power distribution and **ricos**™, the youngest development in the field of automation systems for extended environmental requirements, are only two examples of Wieland Electric's desire for innovation.

Innovative & active worldwide

With its extensive product range covering control cabinet technology, DIN rail terminal blocks, industrial multipole connectors or surge protection technology, Wieland Electric is active in most fields of automation technology. The cross-platform sales responsibility of Wieland Electric and Schleicher Electronic will guarantee all cross-selling activities in the areas of components, industry and system components as well as systems in general.

With its staff of almost 2,000 employees, the Wieland Group is at home on all continents. Subsidiaries in Belgium, Great Britain, France, Spain, Italy, Poland, Canada, the USA and very recently also in China speak for themselves. With a great number of representatives, the Wieland Holding is active in almost all strategically important countries. Just a medium-size global player with a clear commitment to the German location where most of the products are still manufactured.

Wieland stands for Best Connections.

Wieland in Bamberg stands for a well-balanced mix of tradition and the modern age. Here parallels to the Bamberg theater that is rich in tradition and that is beginning to flourish again in its new premises can be seen.

Another reason for Wieland to become committed to the Bamberg theater as a partner.

Just Best Connections.

Sales and Marketing Center in Bamberg



STOCKO headquarters in Wuppertal



Schleicher premises in Berlin



High-quality products and responsible environmental protection are almost a matter of course. Not without reason are the companies of the Wieland Holding certified according to quality standard ISO 9001 and environmental standard ISO 14001. Far-reaching new investments such as the expansion of a plant in Bamberg set a sign for a positive future.

Best Connections.

Business fields and entire production



► Business fields of Wieland Electric GmbH

■ Industrial technology

■ Building installation technology



► Business fields of STOCKO Division

■ Automotive

■ Industrial technology

■ Heating technology

■ Multimedia

■ Appliance technology



► Business fields of SCHLEICHER Division

■ Control systems

■ Timer relays, switching relays

■ CNC systems

■ Safety switching devices

■ PLC systems

■ Measuring and monitoring relays

■ Operating devices

■ Modular safety mini-controller modules

■ Fieldbus systems



Product groups

DIN rail terminal blocks
fasis, selos, taris



Safety technology
samos, safety center



Relays,
power supply
interface



Installation system
gesis IP+



Installation system
gesis CON, *gesis* ELECTRONIC



Electronic housings
dipos,
NGG, WEB



Fieldbus components
ricos



Remote automation
podis



Industrial multipole connectors
revos



Appliance terminals, terminal strips
appliance



Individual customer requirements can only be satisfied by those who understand them.

Therefore we focus our products and services on our customers' requirements without compromise. Over 90 years of experience and competence in the field of electrical connection technology speak in our favor. For more than ten years, Wieland Electric GmbH has also been successful in fieldbus and analog technology.

This success is not without reason.

It is the result of the concentrated and hard work of staff members who apply commitment and motivation to planning, development, manufacturing and support.

Design and development of suitable products at the right time and based on intelligent ideas have made us one of the leading providers of electrical connection technology worldwide.

Visit us on the Internet:

www.gesis.com

www.wieland-electric.com



Hotline numbers:

**For questions for the sales team
regarding availability, delivery date
and prices:** ☎ +49 9 51/93 24-990

**For technical questions on product characteristics
and applications of our products as well as their
functionality and accessories:**

gesis®, EIB devices: ☎ +49 9 51/93 24-996

Fax: ☎ +49 9 51/93 26-996

e-mail: **BIT.TS@wieland-electric.com**

With our flexible connector system **gesis** we are the international market leader in the field of building installation technology.

Our manufacturing is state-of-the-art. As with research and development, we also rely on the highest technical level in production. This way we ensure that only 100% quality leaves our company.

With our subsidiaries in Germany, the USA, Canada, Great Britain, France, Italy, Spain and Poland and with sales agencies in more than 50 countries we are continuously available to our customers and can offer support on short notice and prompt availability of our goods.

Do not hesitate to contact us and discuss your requirements with our staff members. We will be happy to assist you.

Contents

The idea of pluggable installation	10
Electrical installation with a system	12
Schedule gesis CON, gesis IP+	14
Areas of applications as an overview	18
Mains connection	20
Plant engineering	22
Solar technology	24
Construction power systems	26
Event technology	28
Outdoor lighting	30
Project and shipbuilding	32
3D system description	34
Overview matrix	36
RST 20i2	38
RST 20i3	50
RST 25i3	62
RST 20i4	68
RST 20i5	80
RST 25i5	94
Accessories	100

Technical data

Wire preparation	104
IP protection degrees	105
Installation instructions 2 to 5 pole	106
Material resistance	110
Technical data	111
Electrical installation online	114

The idea of pluggable installation

yesterday

► Conventional installation

Work steps:

Power distribution:

- Cut the cable to length
- Strip the cable sheath
- Insert the cable into the junction box
- Strip the wire insulation
- Connect the individual wires
- Close the junction box

Lamp installation:

- Open the lamp
- Strip the cable sheath
- Insert the wire into the lamp
- Strip the wire insulation
- Connect the individual wires
- Close the lamp

20
min.



The *gesis* installation philosophy:

The idea is as easy as it is brilliant.

An extensive network of components of electrical connection technology, pre-assembled and most carefully tested, enables a consistently pluggable solution from the distribution board to each point of demand.

The idea today

► Pluggable installation from Wieland

Work steps:

- Attach the lamp
- plug & play

4
min.

Additional advantages:

- ✓ Touch-safe
- ✓ Straightforward cable layout
- ✓ Simple replacement of devices
- ✓ Easy expansions or modifications
- ✓ Re-usable
- ✓ Mechanical codings
- ✓ Integrated locking device and strain relief

This saves time and reduces costs!

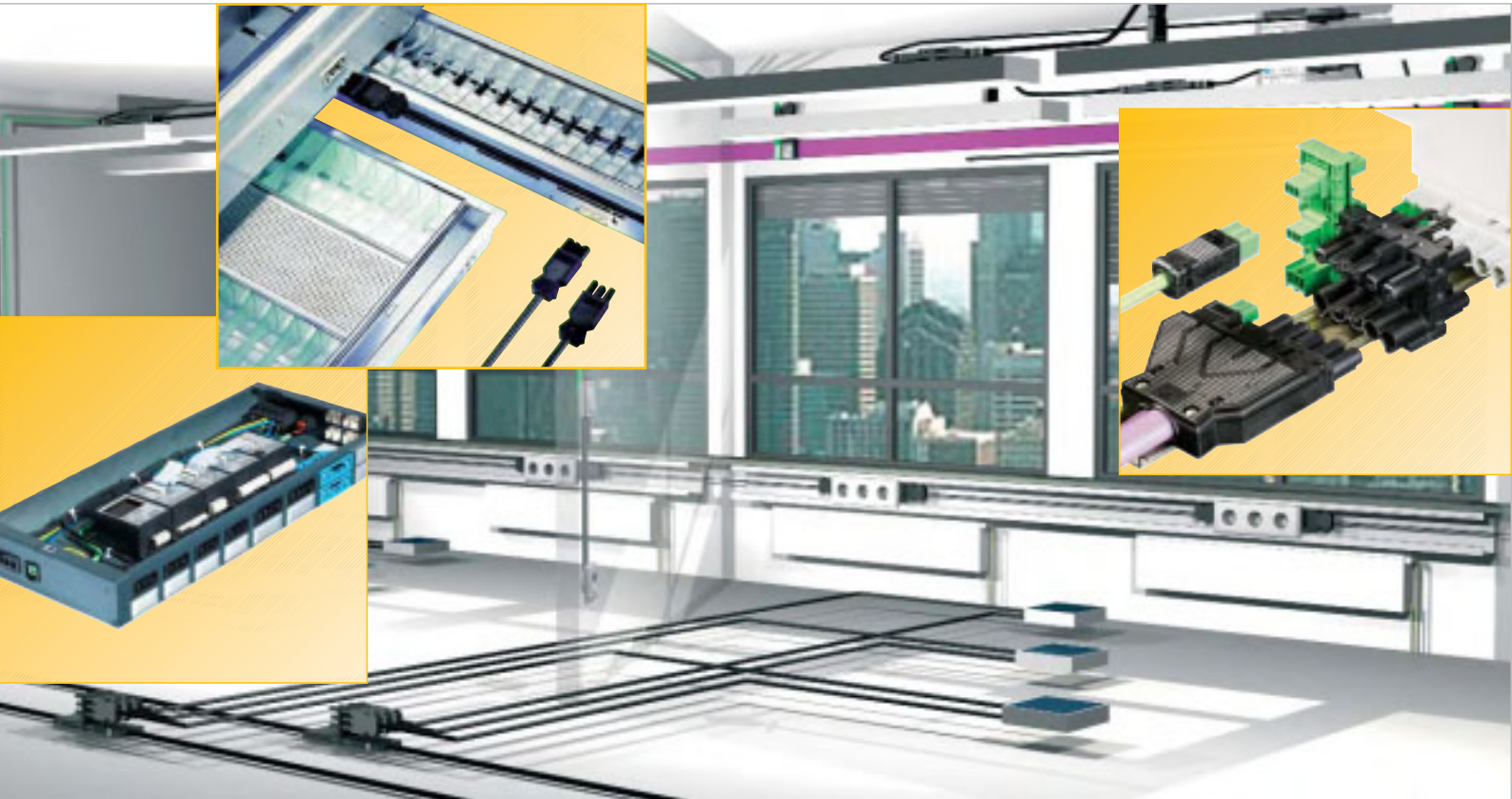
A great number of renowned manufacturers have recognized this positive trend and, as system partners, already offer their components with pluggable **gesis** connectors.

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.

Electrical installation with a system

Transfer of the successful *gesis* installation philosophy ...



- ▶ **Wieland, as the world market leader in the field of pluggable electrical installation, provides a consistently pluggable installation system: Complex installations from the distribution board to each point of demand can be implemented with only four base components.**

gesis CON
IP 20

- ▶ Pluggable connectors (male + female) for supply of the connector system – interface between conventional and pluggable installation



**INCOMING
SUPPLY**

- ▶ Distribution blocks for power or signal distribution within the network



DISTRIBUTION

- ▶ Pre-assembled cables for routing or supply of electrical power or signals



ROUTING

- ▶ Device connections are directly integrated into the end devices and function as the interface to the connector system



**DEVICE
CONNECTION**

The system

... in areas with increased protection requirements



gesis IP+

IP65 ...IP68 ⚠ ⚠

- ▶ With a new product on the market, Wieland transfers the successful **gesis** installation philosophy into a new market segment and sets new standards.

Degree of protection achieved:

IP 65	Jet water
IP 66	Powerful jet water
IP 67	Temporary submersion
IP 68	Lasting immersion (2 hours in 3 m deep water)

INCOMING
SUPPLY



DISTRIBUTION



ROUTING



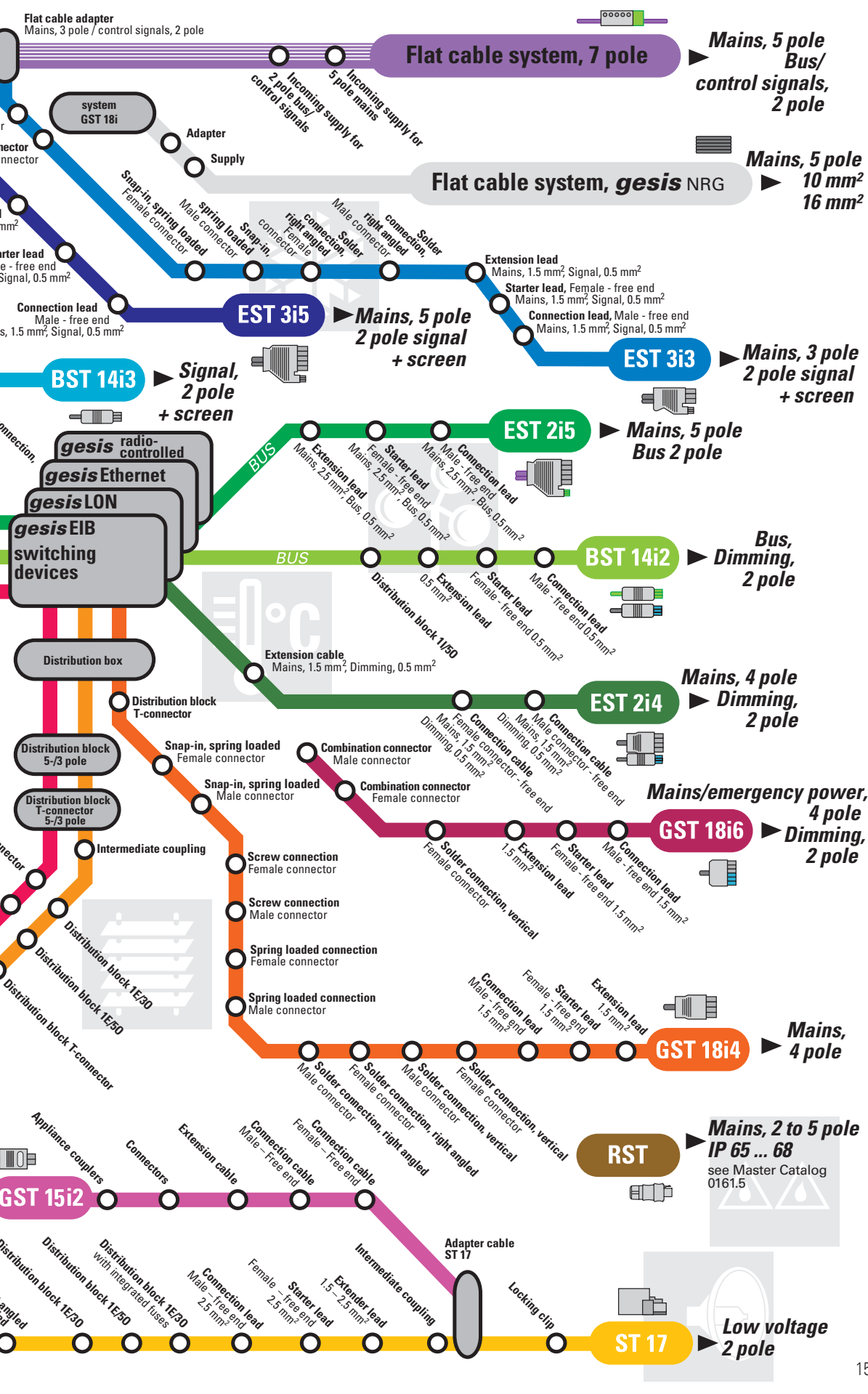
DEVICE
CONNECTION





















In many applications, electrical devices and systems must work safely under difficult environmental conditions for many years. For a reliable function the ingress of water or foreign particles (such as dust, oil, soot) into production systems, parking garages or outer premises must be avoided. Even an **unplanned immersion** is possible with the RST system within the scope of the specified degree of protection. The system is not designed for permanent operation under water.




The components



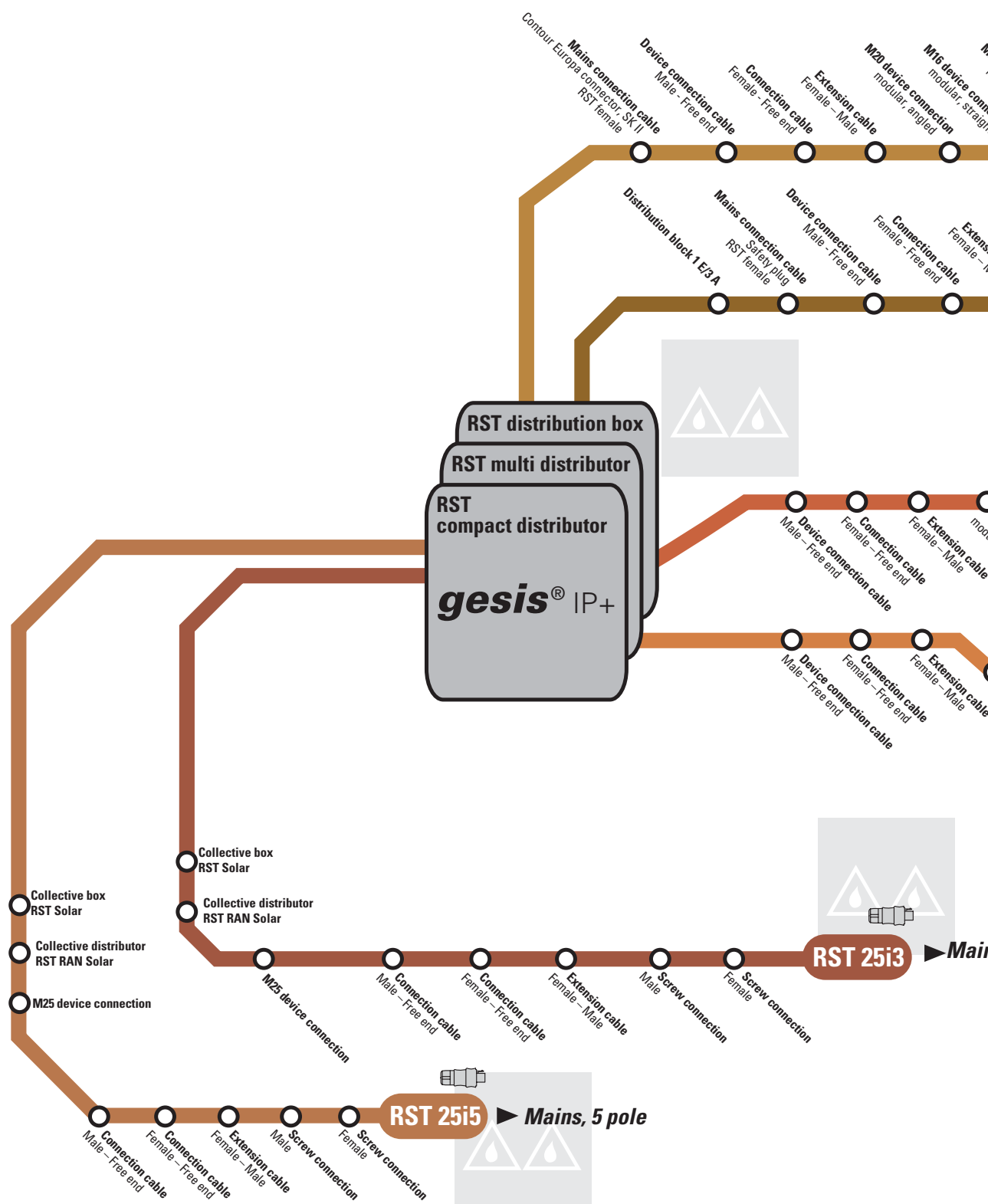
-  **GST 18i3**
Mains, 3 pole
 -  **GST 18i4**
Mains, 4 pole
 -  **GST 18i5**
Mains, 5 pole
 -  **GST 18i6**
Mains, 4 pole
emergency supply
 -  **BST 14i2**
Bus,
Dimming, 2 pole
 -  **EST 2i3**
Mains, 3 pole
Bus, 2 pole
 -  **EST 2i4**
Mains, 4 pole
Dimming, 2 pole
 -  **EST 2i5**
Mains, 5 pole
Bus, 2 pole
 -  **BST 14i3**
Signal, 2 pole
+ screen
 -  **EST 3i3**
Mains, 3 pole
Signal, 2 pole
+ screen
 -  **EST 3i5**
Mains, 5 pole
Signal, 2 pole
+ screen
 -  **Flat cable system, 5 pole**
Mains, 5 pole
2.5 mm²
 -  **Flat cable system, 2 pole**
Bus, 2 pole/
control signals
 -  **Flat cable system, 7 pole**
Mains, 5 pole
Bus, 2 pole/
control signal
 -  **Flat cable system gesis**
Mains, 5 pole
10 mm²
16 mm²
 -  **ST 16**
Low voltage 2 pole
 -  **ST 17**
Low voltage 2 pole
 -  **GST 15**
Mains, 2 to 5 pole

Distributor

gesis ELECTRONICS
EIB/KNX; LON
Ethernet; radio-
controlled

 -  **RST**
Mains, 2 to 5 pole
IP 65... IP 68

gesis® IP+ schedule for installation in rough environments



The components



Areas of application in an overview

**Mains connection
for electrical devices**

**Construction power
systems**

Outdoor lighting

Application

System engineering

Solar technology

Event technology

**Project and
shipbuilding**

Mains connection for electrical devices

Other countries – other mains connections: RST connector as the mediator between the nations

The challenge:

Particularly the export-oriented countries must offer their products in country-specific variations. The products frequently distinguish themselves by the mains connectors. Stockage of country-specific product variations has, not least, an adverse impact on delivery times and warehouse costs.

The solution:

Mains connections are made pluggable: one end is pre-assembled with the appropriate national mains connector, while the other end has always the same RST connector. Consequentially, the relevant end devices are equipped with RST device connectors, independently of the country.

Thus country-specific mains connections are available to you. The connection set required for the target country is attached only. This simplifies stockkeeping for export-oriented products especially.

RST mains connectors:

The cables are pre-assembled with the desired mains connector*) on mains side. The RST connector is molded to the device side. It is not only extremely compact, but is also protected against bending.

The connection between the device and the pre-assembled cable is protected against accidental loosening through an integrated safe locking device. A manual disconnect facility is optionally available.

*) available on request

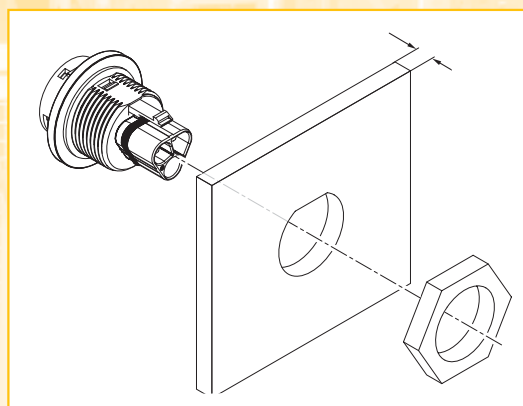


Application

Device connections:

Device connections are integrated into the relevant housing cut-outs and function as an outward interface.

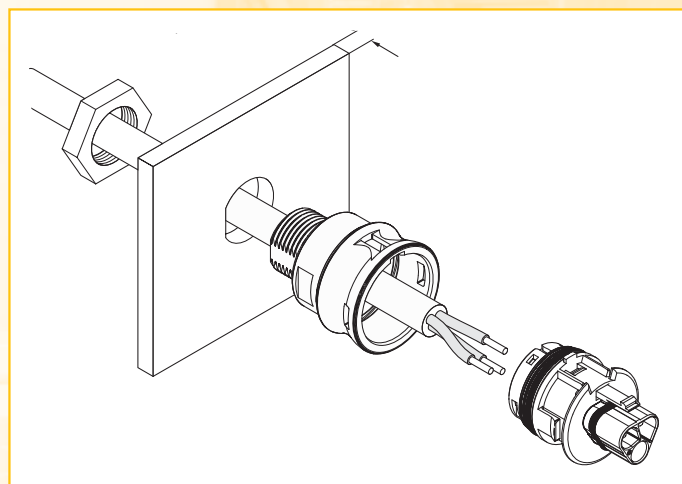
There are basically two variations: the single-piece **M25 standard device connections** are simply installed inside the housing.



Also see:

RST 20i2 Protection class II
RST 20i3 Mains with ground

The **modular device connections (two-piece)** are available in M16 and M20 designs as well as with 0° and 90° angles.



M20 0°



M16 0°



M20 90°

On request we can also realize intermediate angles ranging between 0° and 90° in order to provide a solution for specific housing geometries.



Mxx xx°

System engineering

gesis – the pluggable electrical installation now also for industrial use

The challenge:

Whether individual applications or complex systems – the tasks are the same: electrical consumer devices must be connected quickly and safely.

Conventional installations do not meet these requirements. Cutting the cables to length, stripping the cable sheath and wire insulation, and finally connecting of the components are not only time-consuming operations, but frequently also cause errors and result in rework. Cooperation of different trades (mechanical and electrical installation) during the setup of a system impedes the continuous progress of operations. This applies not only for initial installations. For expansions, regular servicing or replacement of defective devices the same installation steps recur over and over again.



The solution:

As a complete installation system, **gesis** IP+ provides definite time savings during installation. The components are pre-assembled in the factory and simply plugged together in the field. Troublesome cutting to length, stripping of sheath and insulation, and connecting is now a matter of the past.

Operational downtimes are thus clearly reduced. In the case of defective devices or regular servicing, the consumer devices can be disconnected from the network quickly. Another advantage is that the installer does not have to open the device for completion of the electrical connection, which means that incorrect assembly especially of water-protected devices can be excluded.



Application

Cost reductions:

Connections in system sections are frequently over-dimensioned. This was not least due to a lack of alternatives. But this is where a major savings potential is hidden.

The RST system counts on completely pre-assembled components which only have to be plugged in on site.

Pre-assembly in a separate location:

The **gesis** IP+ installation system enables completely new possibilities. Complete system sections can be pre-assembled and tested independent of the location of operation.

The individual modules are simply plugged together on site.



Making electrical devices pluggable:

Device connections function as an interface between the electrical consumer devices and the **gesis** IP+ installation system. The consumer device becomes pluggable through the integrated device connector and can therefore be incorporated into the installation system as required.

The device connectors have been equipped with standard threads (M16 and M25) and can therefore be replaced easily by conventional feed-through facilities.

Also see:

RST 20i3 Mains with ground
RST 20i4 Mains with ground
RST 20i5 Mains with ground



Possible applications:

- Motor connection (3~)
- Power distribution 250/400 V ~
- Power supply up to 50 V, bus
- Workstation illumination
- Painting checks



Solar technology

The safe way into the network: the AC Solar connector system

The challenge:

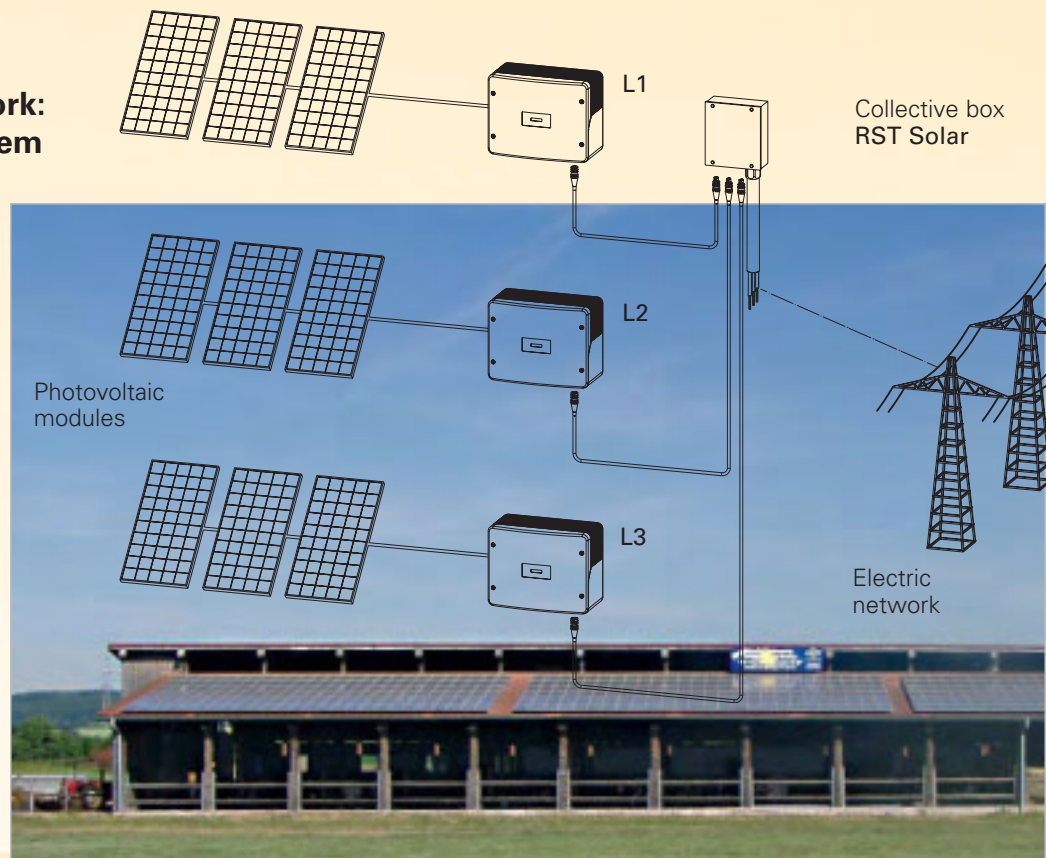
The extraordinary benefits of a pluggable electrical installation have been restricted to the DC side of photovoltaic systems thus far. The connection on the mains side still had to be made in the time-consuming conventional way. When several inverters are used within a system, the high installation effort becomes apparent.

The solution:

With its new AC Solar round connector system, Wieland provides an optimal solution for the AC area. Pre-assembled components with increased protection degree ensure a quick and safe installation even under the most adverse conditions.

The system includes collective distributors which are delivered in a pre-assembled design, and cable assemblies for the connection between the inverters and the collective distributors. The system is supplemented by connectors for assembly on site. Leading inverter manufacturers pre-assemble their devices with the relevant connectors, the interface to the system, in their factories.

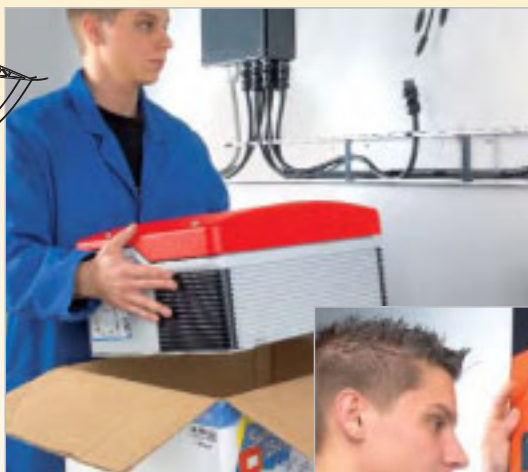
More and more manufacturers recognize this positive trend and offer their devices with RST connectors.



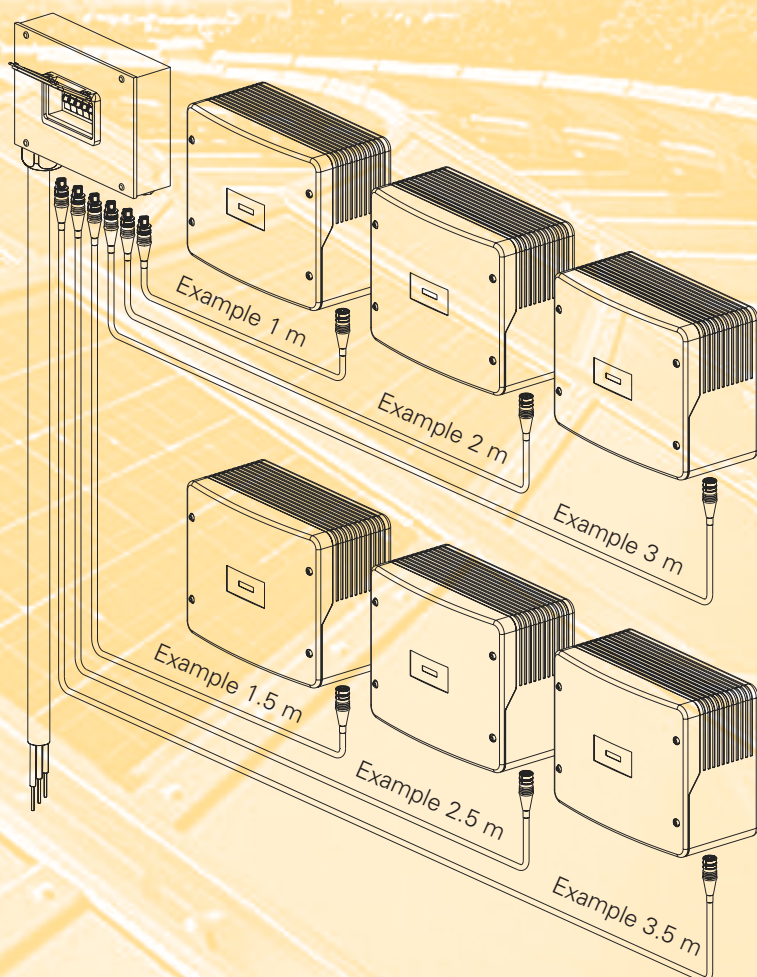
Other fields of application

- Emergency power supply through batteries (in buildings or systems)
- Transformation of on-board voltage (cars, trucks, railroad, caravans, boats)
- Metal working
- Power generation (fuel cell, wind power plants, photovoltaic systems)





Example: system up to 30 kWp



Also see:

- RST 25i3** Single-phase supply with ENS
- RST 25i5** Single-phase supply with three-phase monitoring
- RST 20i5** Three-phase supply

Additional information about this topic is available in our brochure "Solar Power is Pluggable", part number 0162.5.

Construction power systems

The flexible electrical installation: construction power system for initial supply of construction sites during structural works

The challenge:

Time pressure in the project business is greater than ever: it is therefore even more important that all processes function and are attuned with one another without a problem. The construction power systems make a major contribution, as they ensure the supply of electrical power during structural works. The requirements for such construction site supply are extremely high. On the one hand they must withstand extreme conditions and on the other hand provide as much flexibility as possible.



The solution:

Only three base modules are required to implement even complex installation in no time and according to the requirements. The pre-assembled cables are at the core. They are ready for use in all required lengths and can be installed as required. Distributor components furthermore enable the distribution of power to the relevant location. And finally there are the lamps. They have been equipped with device connectors and can be integrated into the installation by simply plugging them in.



Application

The benefits at a glance:

Low investment requirements:

All connection cables have been pre-assembled and tested. With the available range of device connectors almost any standard lamp can be made pluggable. Therefore, the lamp manufacturers can easily integrate them into their products.



Low stock requirements:

In contrast to the lamps with a fixed connection cable, these lamps can easily be stockpiled due to their pluggability. Transport becomes easier as well. The cables are stored separately. There are only a few different cable types, as the same lengths can be cascaded.

Easy handling:

The lamps can be assembled easily on the construction site, as the electrical connection is made after the lamps have been installed.

Due to the compact dimensions of the pluggable components, the cables can be laid out much more flexibly, as small bore holes or cut-outs are no obstacle.



Also see:

RST 20i3
RST 20i5

Mains 3 pole
Mains 5 pole



High operational safety:

The power supply system at the construction site cannot be used by third parties (unrelated trades), as the construction machines are normally not equipped with RST connectors. Its high degree of protection prevents any failure, even with short-term flooding of the connections.

Event technology

Pluggable solutions for event technology: electrical installations outdoors – one of the last adventures

The challenge:

Decorative illuminations during Christmas time or for other major events are extremely popular today. The possibilities for creating pleasant atmospheres or spotlighting objects are almost unlimited. But what happens behind the scenes? Standard outlets, carefully packed in PET bottles, or simply wrapped in a plastic bag – this is often common practice (not just in secrecy).

Apart from the fact that improvised solutions like that are questionable in view of safety technology, they are not aesthetically appealing at all. The fact is that there hasn't been an alternative up to now.



The solution:

The solution is a system which is suitable for outdoor use without additional protection measures: RST. Consistently pluggable and with IP68 protection degree, RST enables the outdoor connection of, for example, lamps quickly and safely. Special attention was put on the design in order to make it match inconspicuously with the existing installation.

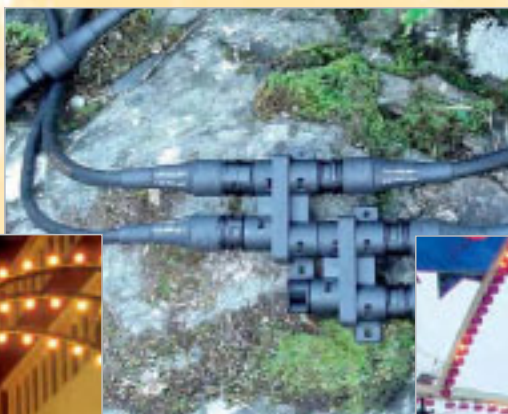


Event technology

(Project lighting, festivals, leisure parks, fairground rides, exhibitions, concerts, light advertisements)

Christmas lighting

(Post lighting, tree lighting, sales booths)



Application



Connectors for illumination cables:

Customary illumination cables can be integrated into the installation through special 2 pole connectors with the corresponding rectangular strain relief. This applies to applications in the professional as well as in the private sector.

The connectors are protected against accidental loosening; they can be unlatched with a tool only. This is a considerable plus in safety for places that are generally accessible. For protected areas (that are only accessible by experts), the connectors can be equipped with a manual disconnect facility for easy disassembly.



Available on request!

Flexible light tube cable:

A 1 m long supply cable is available as an interface between customary 2 pole light tubes.



Available on request!



Post outlet:

The post outlet is simply integrated into existing posts and thus ensures the power supply. It even provides minimal dimensions and optimal weather protection. The post outlet consists of a splash-water-protected device connector which is mounted directly on the post, as well as a firmly connected cable in various lengths for internal wiring. The cable is strain-relieved and the contacts are protected against condensation.

The protective cover is removed and the decorative component is plugged in with the corresponding flexible light tube – plug & play!

Also see:

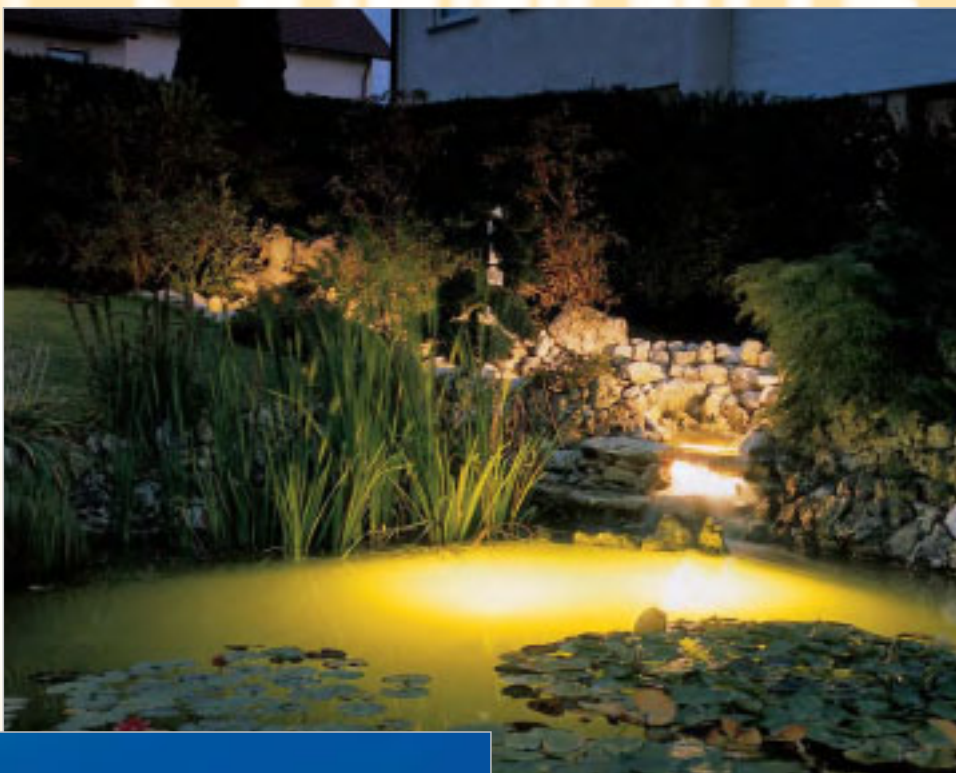
RST 20i2 Protection class II
RST 20i3 Mains with ground
Accessories

Outdoor lighting

plug & play for outdoor lamps: electrical installations according to the “lego principle”.

The challenge:

Expert operation plays a major role particularly for electrical installations outdoors. Difficult installation conditions and high time pressure often cause errors, loss of the protection degree and finally failure of the system. Unfortunately customers often send their complaints about cases like that to the lamp manufacturer and are left with a bad impression.

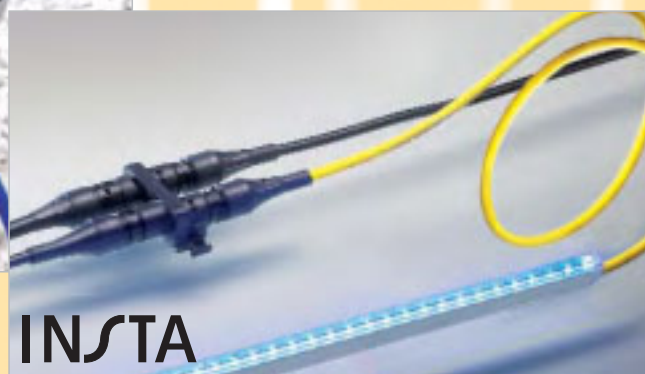


The solution:

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. Lamps can thus be delivered in a pre-assembled design. They only have to be plugged in on site. The connectors are also touch safe when they have not yet been plugged in; they provide a locking device against accidental loosening.

The possibility of connecting almost all customary cable types (also underground cables), as well as the IP 68 protection degree make the RST connector a strong partner for outdoor lighting. Underground installation is possible when the following items are kept in mind: the regulations according to DIN VDE 0100 must be fulfilled. Continuous draining of water must be guaranteed by suitable drainage measures. The connectors must be installed horizontally and protected against mechanical strain (in a plastic tube, if required).

Application



Connectors:

For the various lamp types, mains connectors for 250V and low-voltage connectors for LED technology up to 50V are available.

These are mechanically coded and can therefore not be mismatched.

For parallel applications this provides additional safety.

Also see:

RST 20i2 Protection class II, low voltage

RST 20i3 Mains 3 pole

RST 20i5 Mains, 5 pole

Project and shipbuilding

gesis – the synonym for pluggable electrical installation

The challenge:

Whether in underground garages, greenhouses or in shipbuilding: electrical installations with increased requirements regarding the degree of protection can be found everywhere. Especially in these fields, it is extremely important that the electrical installation is carried out by an expert.

But how does it work in practice? Difficult installation conditions and extreme time pressure often lead to errors, loss of protection and finally to the failure of the system.



The solution:

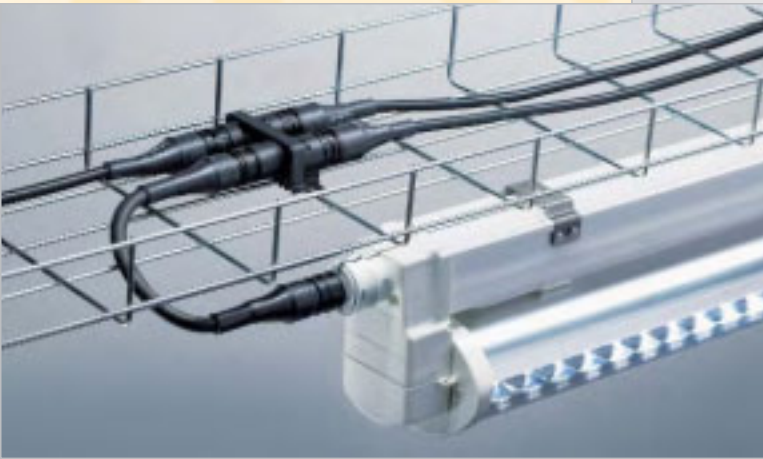
The idea is as easy as it is brilliant. An extensive network of components pre-assembled in the plant and most carefully tested enables a consistently pluggable solution from the distributor to the point of use. This saves time and reduces the costs!

Application

The benefits at a glance:

Installation up to date:

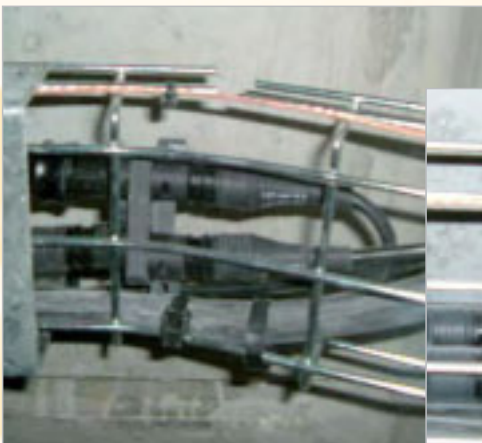
The **gesis** installation system and its sophisticated concept mirror the state of the art in modern technology.



Reduced construction times (initial installation):

An installation with **gesis IP+** reduces the costs not only for initial installations.

Even short-term reorganization can be carried out without a problem. This is enhanced by the guarantee of continuous installation quality.



Continuous operational cost savings:

Maintenance costs and repair during operation are possible even under more difficult work conditions (architecture).

Defective consumer devices are simply replaced without disconnecting the system.



3D system description

① Connectors

Connectors can be assembled on site. 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 enable the connection of all common cable types.

A special variant also enables the connection of illumination cables for decorative strings of lights.

Depending on the requirements the connectors are available with spring clamp or screw technology.

② Splitter connectors

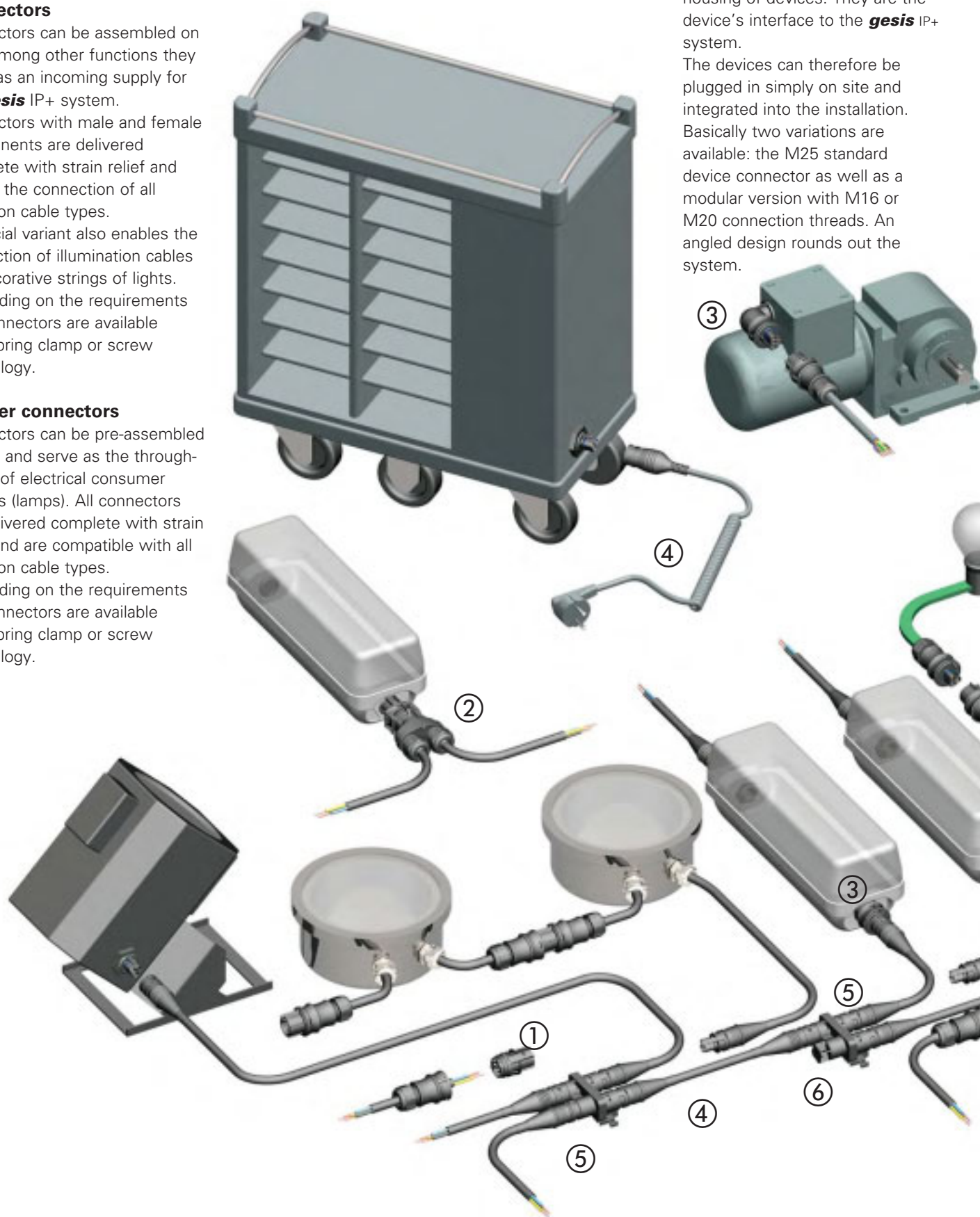
Connectors can be pre-assembled on site and serve as the through-wiring of electrical consumer devices (lamps). All connectors are delivered complete with strain relief and are compatible with all common cable types.

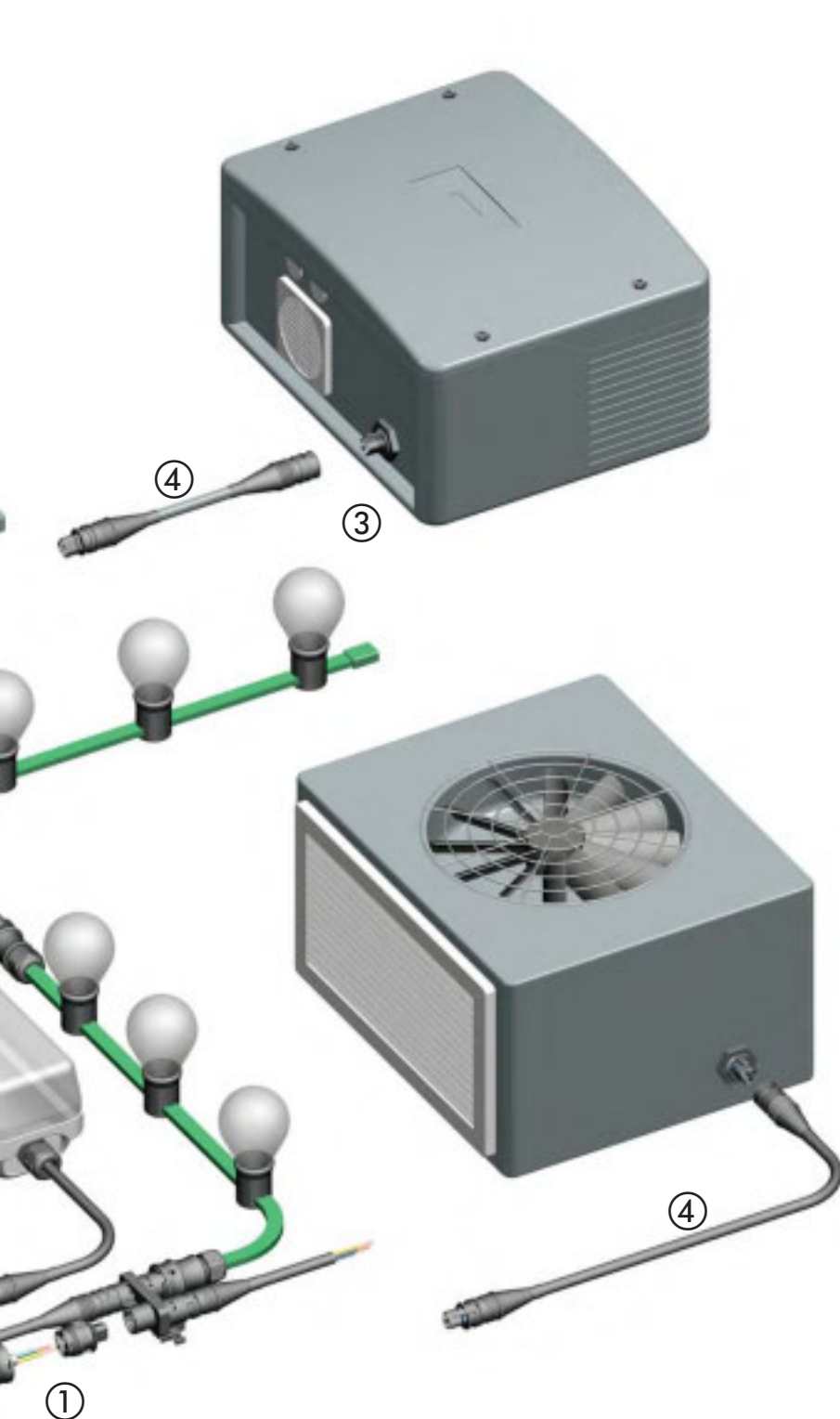
Depending on the requirements the connectors are available with spring clamp or screw technology.

③ Device connections

Device connections are integrated in corresponding bore holes in the housing of devices. They are the device's interface to the **gesis** IP+ system.

The devices can therefore be plugged in simply on site and integrated into the installation. Basically two variations are available: the M25 standard device connector as well as a modular version with M16 or M20 connection threads. An angled design rounds out the system.





④ Cable assemblies

Electrical power is supplied by using cable assemblies. Three basic versions are distinguished: Mains connection cables provide the incoming supply of the **gesis** IP+ system. They have been prepared for a traditional connection or with a standard plug 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, and serve as feed-through wiring. The 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 incorporated in the installation and thus enable a tap-off to the consumer devices.

The distribution block is available with or without mounting flanges.

⑥ End caps









They are used to safely cover unused contacts.

The IP protection is therefore maintained when the device is unplugged.

Overview matrix for connectors, device connections, distribution units

Overview of standard components:

Depending on the application you can choose among 10 codings. Mechanically coded means that only the matching male and female connectors can be plugged together. Thus you can be sure that your various applications are clearly distinguished — without having to rework wrong connections. The connector colors signal the matching connections. The standard mains coding is an exception. Here you can select between black and gray. These are compatible with one another.

			RST 20i2 2 pole, 20 A		RST 20i3 3 pole, 20 A	
Marking of poles			L, N	1, 2	L, N, ground	1, 2, ground
Application			Protection class II	LV, signals, bus up to 50 V	Mains 250 V	Mains 250/400 V
Contact insert Male and female			 	 	 	 
			Spring clamp technology Screw technology	Spring clamp technology Screw technology	Spring clamp technology Screw technology	Spring clamp technology Screw technology
Connectors	1 x cable entry	Ø 6 – 10 mm				
		Ø 10 – 14 mm				
		Ø 13 – 18 mm				
		Flat cable 13 x 6 mm				
	2 x cable entry	Ø 6 – 10 mm				
Device connectors	1-piece	M25				
		M16 straight				
	2-piece	M20 straight				
		M20 angled				
Distributor units	Distribution block 1 E/3 A					
	RST compact distributor/ multi distributor		Available on request	Available on request	Available on request	Available on request
	Individual distribution box		Available on request	Available on request	Available on request	Available on request
Cable assemblies	Expansion cable Female – Male					
	Mains connection Female – Free end					
	Device connection Male – Free end					
	Mains connection Safety plug – female					
	Mains connection Contour European plug, SKII – female					

and cable assemblies

Application

RST 25i3 3 pole, 25 A	RST 20i4 4 pole, 20 A	RST 20i5 5 pole, 20 A			RST 25i5 5 pole, 25 A (1~)
L, N, ground	1, 2, 3, ground	1, 2, 3, N, ground	1, 2, 3, 4, 5	L, N, ground, +, -	L, N, ground, 1, 2
Mains 250 V	Mains 250/400 V	Mains 250/400 V	LV, signals, bus up to 50 V	Mains 250 V / dimming	Mains 250/400 V
 	 	 	 	 	 
Screw technology	Screw technology, crimp technology	Screw technology, crimp technology	Screw technology, crimp technology	Screw technology, crimp technology	Screw technology
Available on request					Available on request
Available on request					Available on request
Available on request					Available on request
Available on request	Available on request	Available on request	Available on request	Available on request	Available on request
Available on request	Available on request	Available on request	Available on request	Available on request	Available on request
			Available on request		
			Available on request		
			Available on request		

gesis[®]

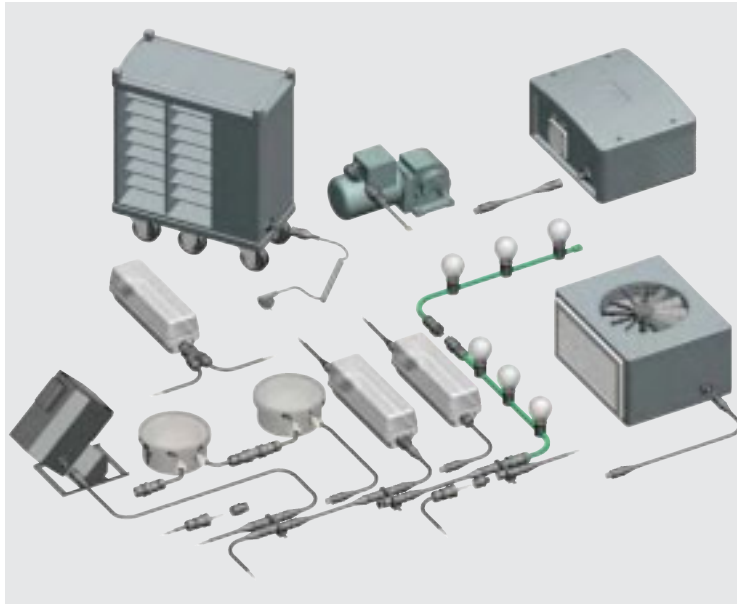


RST 20i2

Mains, 2 pole, low voltage

RST 20i2

Application example



General

The two pole connector is based on the 3 pole variation with one pole left empty.

Basically there are two variations. A connector for low-voltage applications (such as LED lamps) and a connector for protection class II applications. The latter are downward compatible with the 3 pole system with ground connector (RST20i3). Thus you can change from the system with ground connector to the 2 pole system – but not vice versa!

Both connectors are mechanically coded. This means that only associated pairs of male and female can be connected with the correct polarity. You therefore have the security of a clear separation of different applications without having to redo any incorrect connections.

The color of the connectors indicates the links that belong together.

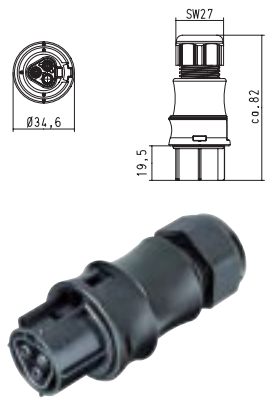


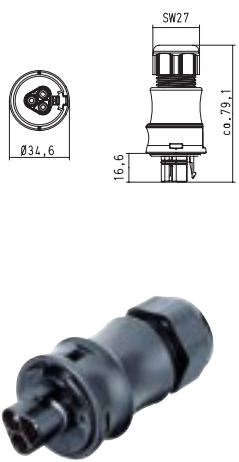


Coding

					Application		
					Protection class II		50 V, LV, bus signals
					Mechanical coding		1, 2
					L, N		
					gray		black
					brown		
Description	Description	Connection style	Strain relief housing	Connection points per pole	gray	black	brown
Connectors	1 x cable entry	Screw technology Spring clamp techn.	yes	1			
	2 x cable entry	Screw technology Spring clamp techn.	yes	2			
Distribution units	Distribution block 1 E/3 A						
	RST compact distributor/ multi distributor				available on request	available on request	available on request
	Individual distribution box				available on request	available on request	available on request
Cable assemblies	Connection cable Male – Free end						
	Connection cable Female – Free end						
	Extension cable Male – Female	pre-assembled	pre-assembled	pre-assembled			
	Connection cable Ground – Female						
	Connection cable Contour European plug SK II – Female						

Connectors

Connectors

Connectors

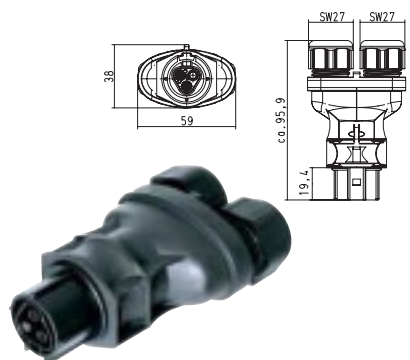


				With spring clamp connections for rigid cables of 0.5 – 2.5 mm ² , fine-stranded cables of 0.5 – 1.5 mm ² with ferrules, stranded cables of 0.75 – 1.5 mm ² with ferrules. Unassembled with cable gland ¹⁾ and locking device. See "Technical Data" for sheath and insulation strip lengths as well as the ferrules to be used.		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. See "Technical Data" for sheath and insulation strip lengths.	
Application	Coding	Wire diameter	Color	Part No.	Std. Pack	Part No.	Std. Pack
Female connector							
Protection class II	 L, N	6 – 10 mm	gray black	96.021.0053.0		96.021.4053.0	
		10 – 14 mm	gray black	96.021.0153.0		96.021.4153.0	
		Illumination cable H05RNH2-F2 x 1.5 ²	gray black	96.021.0453.0		96.021.4453.0	
50 V, LV, bus signals	 1, 2	6 – 10 mm	brown	96.021.0051.4		96.021.4051.4	
		10 – 14 mm		96.021.0151.4		96.021.4151.4	
Application	Coding	Wire diameter	Color	Part No.	Std. Pack	Part No.	Std. Pack
Male connector							
Protection class II	 L, N	6 – 10 mm	gray black	96.022.0053.0		96.022.4053.0	
		10 – 14 mm	gray black	96.022.0153.0		96.022.4153.0	
		Illumination cable H05RNH2-F2 x 1.5 ²	gray black	96.022.0453.0		96.022.4453.0	
50 V, LV, bus signals	 1, 2	6 – 10 mm	brown	96.022.0051.4		96.022.4051.4	
		10 – 14 mm		96.022.0151.4		96.022.4151.4	

¹⁾ Cable gland with bend protection available on request

²⁾ With wire protection available on request

Connectors

Mains, 2 pole, low voltage Connectors

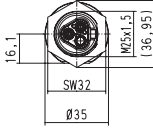
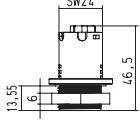


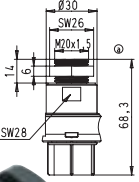
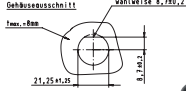

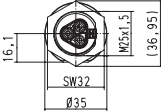
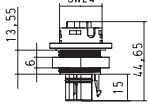


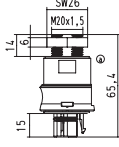
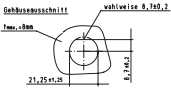

				With spring clamp connections for rigid cables of 0.5 – 2.5 mm ² , fine-stranded cables of 0.5 – 1.5 mm ² with ferrules, stranded cables of 0.75 – 1.5 mm ² with ferrules. Unassembled with cable gland ¹⁾ and locking device. See “Technical Data” for sheath and insulation strip lengths as well as the ferrules to be used.	With screw connection²⁾ for rigid, fine-stranded and stranded cables of 0.75 – 2.5 mm ² . Unassembled with cable gland ¹⁾ and locking device. See “Technical Data” for sheath and insulation strip lengths.		
Application	Coding	Wire diameter	Color	Part No.	Std. Pack	Part No.	Std. Pack
Female connector				See “Accessories” for the mounting plate used to fasten the splitter connector.		See “Accessories” for the mounting plate used to fasten the splitter connector.	
							
Protection class II	 L, N	6 – 10 mm	gray black	96.021.0253.0 96.021.0253.1		96.021.4253.0 96.021.4253.1	
		10 – 14 mm	gray black	96.021.0353.0 96.021.0353.1		96.021.4353.0 96.021.4353.1	
		Illumination cable H05RNH2-F2 x 1.5 ²	gray black	available on request available on request		available on request available on request	
50 V, LV, bus signals	 1, 2	6 – 10 mm	brown	96.021.0251.4 96.021.0351.4		96.021.4251.4 96.021.4351.4	
		10 – 14 mm					
Application	Coding	Wire diameter	Color	Part No.	Std. Pack	Part No.	Std. Pack

41

Appliance connectors

Appliance connector M25, standard

Appliance connector M20, modular, straight

		Apparatus connector M25, standard		Apparatus connector M27, standard		Apparatus connector M27, straight			
		<p>With spring clamp connections 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.</p>		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, external cable gland.</p>		<p>With spring clamp connections 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.</p>		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.</p>	
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Female connector		See “Technical Data” for insulation strip lengths and the ferrules to be used.		See “Technical Data” for insulation strip lengths.		See “Technical Data” for insulation strip lengths and the ferrules to be used.		See “Technical Data” for insulation strip lengths.	
		  			   				
	Protection class II	gray black	96.021.1053.0 96.021.1053.1		96.021.5053.0 96.021.5053.1		96.021.2053.0 96.021.2053.1		96.021.6053.0 96.021.6053.1
50 V, LV, bus signals	brown	96.021.1051.4		96.021.5051.4		96.021.2051.4		96.021.6051.4	
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Male connector									
		  			   				
	Protection class II	gray black	96.022.1053.0 96.022.1053.1		96.022.5053.0 96.022.5053.1		96.022.2053.0 96.022.2053.1		96.022.6053.0 96.022.6053.1
50 V, LV, bus signals	brown	96.022.1051.4		96.022.5051.4		96.022.2051.4		96.022.6051.4	

Appliance connector M16, modular, straight

Mains, 2 pole, low voltage Appliance connector M20, modular, angled




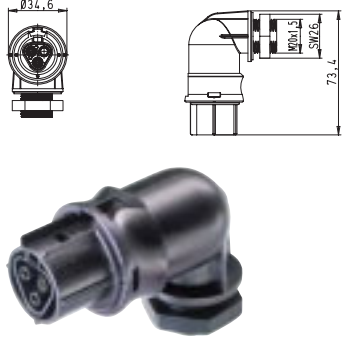
With spring clamp connections for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland.

With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland.



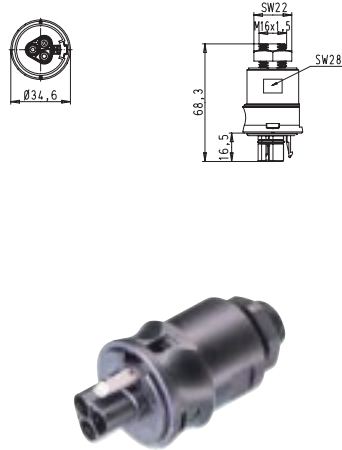
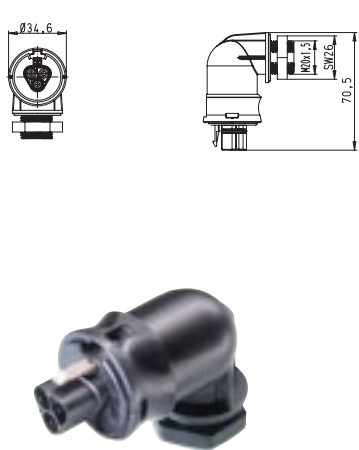
With spring clamp connections for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.

With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.

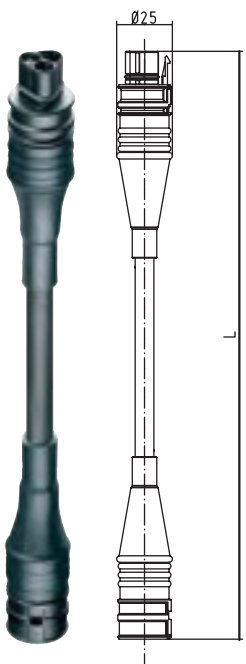
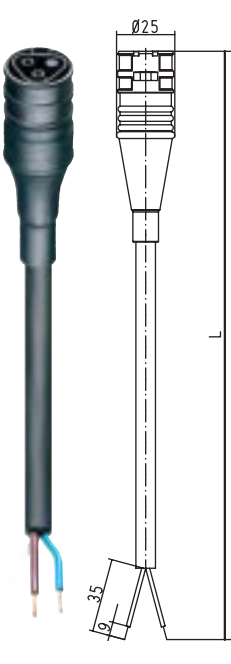
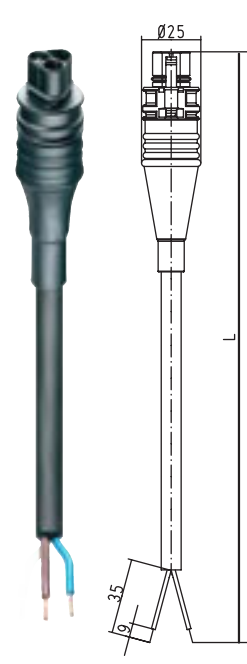
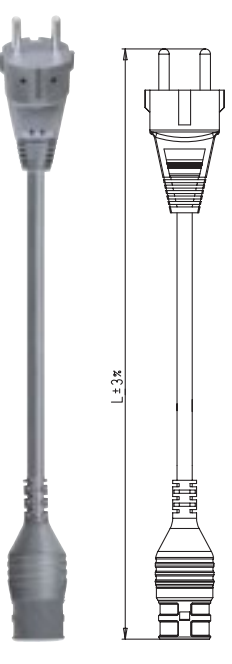


Female connector

Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
 L, N  1, 2		See "Technical Data" for insulation strip lengths and the ferrules to be used.		See "Technical Data" for insulation strip lengths.		See "Technical Data" for insulation strip lengths and the ferrules to be used.		See "Technical Data" for insulation strip lengths.	
									
	gray	96.021.2153.0		96.021.6153.0		96.023.2053.0		96.023.6053.0	
	black	96.021.2153.1		96.021.6153.1		96.023.2053.1		96.023.6053.1	
	brown	96.021.2151.4		96.021.6151.4		96.023.2051.4		96.023.6051.4	

Male connector

Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
 L, N  1, 2									
									
	gray	96.022.2153.0		96.022.6153.0		96.024.2053.0		96.024.6053.0	
	black	96.022.2153.1		96.022.6153.1		96.024.2053.1		96.024.6053.1	
	brown	96.022.2151.4		96.022.6151.4		96.024.2051.4		96.024.6051.4	

Cable assemblies 1.5 mm², mains 2 pole

		Extension cable		Connection cable		Connection cable		Mains connection cable	
		H05VV-F 2G1,5		H05VV-F 2G1,5		H05VV-F 2G1,5		H05VV-F 2G1,5 mm ²	
		Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device		Contour European plug SK II RST female	
				Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm			
Cable assemblies									
		Part No. Std. Pack		Part No. Std. Pack		Part No. Std. Pack		Part No. Std. Pack	
Protection class II L, N  Female  Male	Length ²⁾	Black insulation							
	1.0 m	96.222.1000.1		96.222.1003.1		96.222.1004.1			
	2.0 m	96.222.2000.1		96.222.2003.1		96.222.2004.1			
	3.0 m	96.222.3000.1		96.222.3003.1		96.222.3004.1			
	4.0 m	96.222.4000.1		96.222.4003.1		96.222.4004.1			
	5.0 m	96.222.5000.1		96.222.5003.1		96.222.5004.1			
	6.0 m	96.222.6000.1		96.222.6003.1		96.222.6004.1			
	7.0 m	96.222.7000.1		96.222.7003.1		96.222.7004.1			
	8.0 m	96.222.8000.1		96.222.8003.1		96.222.8004.1			
		Gray insulation						All gray	
	1.0 m	96.222.1000.0		96.222.1003.0		96.222.1004.0		99.702.0000.7 1.5 m	
	2.0 m	96.222.2000.0		96.222.2003.0		96.222.2004.0		99.703.0000.7 2.5 m	
	3.0 m	96.222.3000.0		96.222.3003.0		96.222.3004.0			
	4.0 m	96.222.4000.0		96.222.4003.0		96.222.4004.0			
	5.0 m	96.222.5000.0		96.222.5003.0		96.222.5004.0			
	6.0 m	96.222.6000.0		96.222.6003.0		96.222.6004.0			
	7.0 m	96.222.7000.0		96.222.7003.0		96.222.7004.0			
	8.0 m	96.222.8000.0		96.222.8003.0		96.222.8004.0			
50 V, LV, bus signals 1, 2		available in the 4th quarter of 2006		available in the 4th quarter of 2006		available in the 4th quarter of 2006			

¹⁾ Other cables available on request

²⁾ Other lengths available on request

Extension cable

Connection cable

Connection cable

H07RN-F 2G1,5

Female – Male
with locking device

H07RN-F 2G1,5

Female – Free end
with ultrasonically welded wire
ends

H07RN-F 2G1,5

Male – Free end
with ultrasonically welded wire
ends and locking device

H07RN-F 2G1,5

**Contour European plug
SK II**
with splash guard
RST female

Cable strip length: 35 mm
Insulation strip length: 9 mm

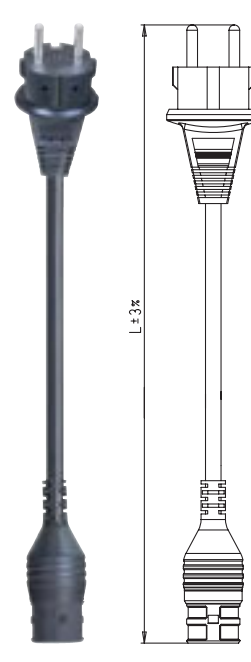
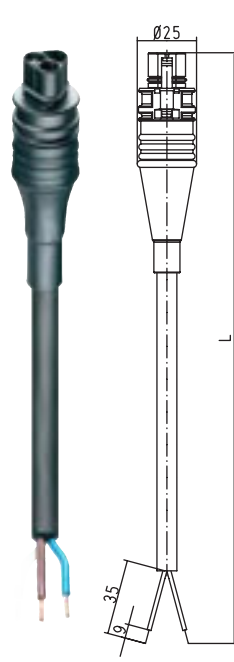
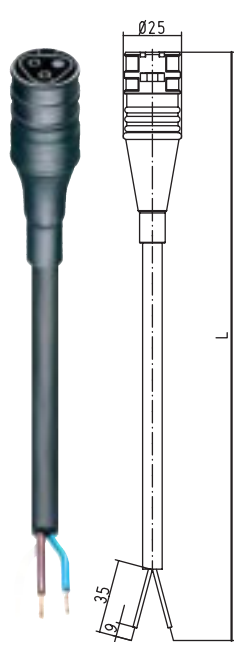
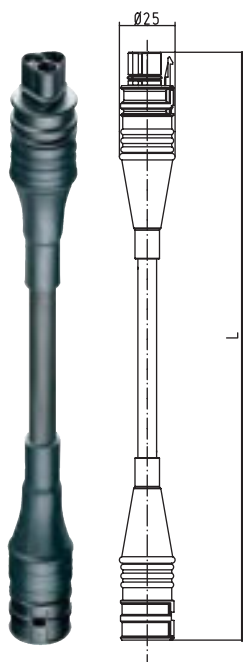
Cable strip length: 35 mm
Insulation strip length: 9 mm





Cable assemblies



N = bl
L = br

Cable¹⁾ and shrinkage
tube in black

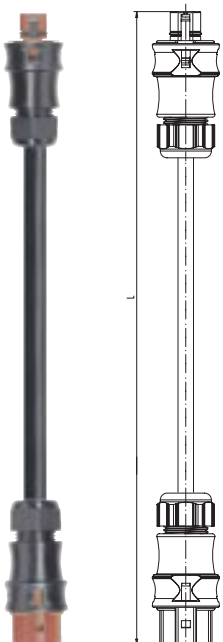
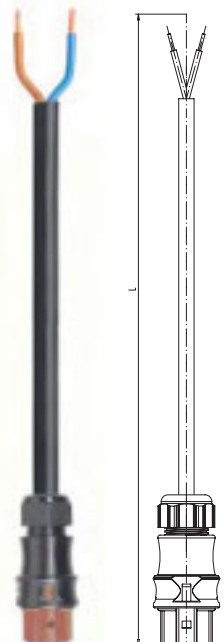
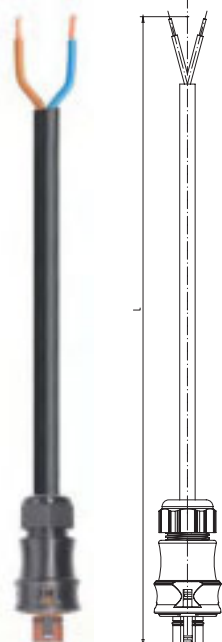


	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Protection class II L, N  Female  Male		Black insulation					
	1.0 m	96.222.1030.1	96.222.1033.1	96.222.1034.1			
	2.0 m	96.222.2030.1	96.222.2033.1	96.222.2034.1			
	3.0 m	96.222.3030.1	96.222.3033.1	96.222.3034.1			
	4.0 m	96.222.4030.1	96.222.4033.1	96.222.4034.1			
	5.0 m	96.222.5030.1	96.222.5033.1	96.222.5034.1			
	6.0 m	96.222.6030.1	96.222.6033.1	96.222.6034.1			
	7.0 m	96.222.7030.1	96.222.7033.1	96.222.7034.1			
	8.0 m	96.222.8030.1	96.222.8033.1	96.222.8034.1			
		Gray insulation					
	1.0 m	96.222.1030.0	96.222.1033.0	96.222.1034.0			
	2.0 m	96.222.2030.0	96.222.2033.0	96.222.2034.0			
	3.0 m	96.222.3030.0	96.222.3033.0	96.222.3034.0			
	4.0 m	96.222.4030.0	96.222.4033.0	96.222.4034.0			
	5.0 m	96.222.5030.0	96.222.5033.0	96.222.5034.0			
	6.0 m	96.222.6030.0	96.222.6033.0	96.222.6034.0			
7.0 m	96.222.7030.0	96.222.7033.0	96.222.7034.0				
8.0 m	96.222.8030.0	96.222.8033.0	96.222.8034.0				
50 V, LV, bus signals 1, 2  Female  Male		available in the 4th quarter of 2006	available in the 4th quarter of 2006	available in the 4th quarter of 2006			

¹⁾ Other cables available on request

²⁾ Other lengths available on request

Cable assemblies 1.5 mm², low voltage 50 V

		Extension cable		Connection cable		Connection cable			
		H05VV-F 2G1,5		H05VV-F 2G1,5		H05VV-F 2G1,5			
		Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device			
				Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm			
Cable assemblies									
1 = bl 2 = br									
Cable ¹⁾ in black									
Connector spring clamp, black									
	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack		
50 V, LV, bus signals 1, 2		Black insulation							
	1.0 m	96.522.1002.4		96.522.1007.4		96.522.1008.4			
	2.0 m	96.522.2002.4		96.522.2007.4		96.522.2008.4			
	3.0 m	96.522.3002.4		96.522.3007.4		96.522.3008.4			
	4.0 m	96.522.4002.4		96.522.4007.4		96.522.4008.4			
	5.0 m	96.522.5002.4		96.522.5007.4		96.522.5008.4			
	6.0 m	96.522.6002.4		96.522.6007.4		96.522.6008.4			
	7.0 m	96.522.7002.4		96.522.7007.4		96.522.7008.4			
8.0 m	96.522.8002.4		96.522.8007.4		96.522.8008.4				

¹⁾ Other cables available on request

²⁾ Other lengths available on request

Extension cable

Connection cable

Connection cable

H07RN-F 2G1,5

Female – Male
with locking device

H07RN-F 2G1,5

Female – Free end
with ultrasonically welded wire
ends

H07RN-F 2G1,5

Male – Free end
with ultrasonically welded wire
ends and locking device

Cable strip length: 35 mm
Insulation strip length: 9 mm

Cable strip length: 35 mm
Insulation strip length: 9 mm

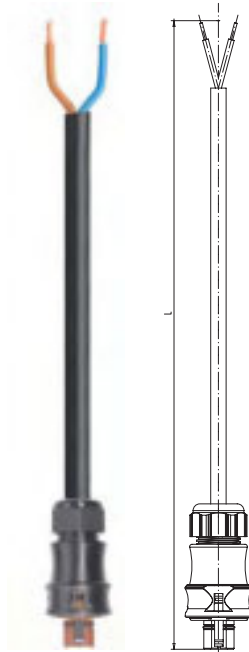
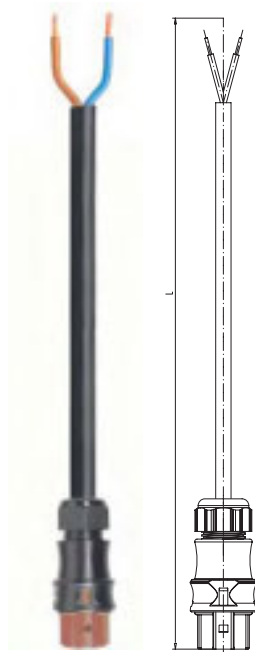
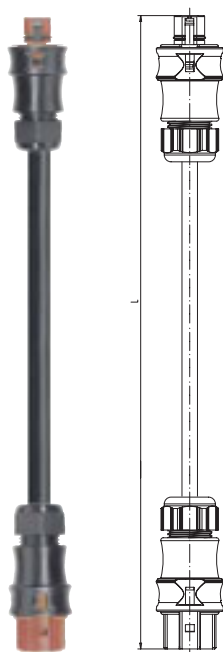
Cable assemblies



1 = bl
2 = br

Cable¹⁾ in black

Connector
spring clamp, black



Length²⁾

Part No. Std. Pack

Part No. Std. Pack

Part No. Std. Pack

50 V, LV,
bus signals
1, 2



Female



Male

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

Black insulation

96.522.1032.4
96.522.2032.4
96.522.3032.4
96.522.4032.4
96.522.5032.4
96.522.6032.4
96.522.7032.4
96.522.8032.4




96.522.1037.4
96.522.2037.4
96.522.3037.4
96.522.4037.4
96.522.5037.4
96.522.6037.4
96.522.7037.4
96.522.8037.4

96.522.1038.4
96.522.2038.4
96.522.3038.4
96.522.4038.4
96.522.5038.4
96.522.6038.4
96.522.7038.4
96.522.8038.4

¹⁾ Other cables available on request

²⁾ Other lengths available on request

Distribution units

RST compact distributor			RST multi distributor		Distribution box	
	– Equip as needed with M25 appliance connectors 2 to 5 pole – 1 input; 3 outputs – pre-wired with 2.5 mm ² – with mounting option		– Equip as needed with M25 appliance connectors 2 to 5 pole – 1 input; 7 outputs (max.) – Safety fuses 6.3 or 10 A can be integrated – pre-wired with 2.5 mm ²		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 carried out 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.	
Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
						
	Forecasted for the 4th quarter of 2006		Forecasted for the 4th quarter of 2006		available on request	

48

RST 20i2

Mains, 2 pole, low voltage

RST 20i2

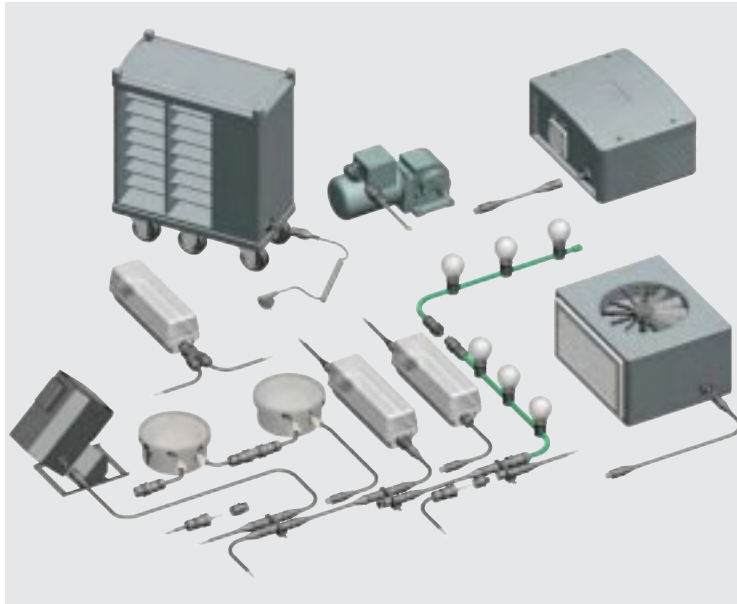
gesis[®]



RST 20i3

Mains, 3 pole

Application example





General

The 3 pole connectors come in two variations. The standard version for general mains applications, and a green coding for applications in multi-phase systems.

Both connectors are mechanically coded. This means that only associated pairs of male and female can be connected with the correct polarity. You therefore have the security of a clear separation of different applications without having to redo any incorrect connections. The color of the connectors indicates the links that belong together.

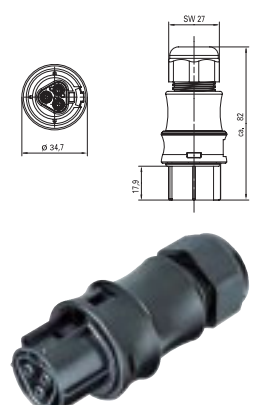


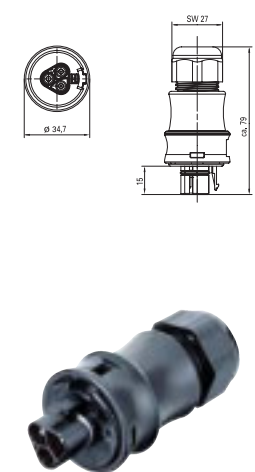


RST 20i3

Coding

					Application		
					Mains 250 V		Mains 250/400 V
					L, N, ground		1, 2, ground
							
Name	Description	Connection style	Strain relief housing	Connection points per pole	gray	black	green
Connectors	1 x cable entry	Screw technology Spring clamp techn.	yes	1			
	2 x cable entry	Screw technology Spring clamp techn.	yes	2			
Distribution units	Distribution block 1 E/3 A						
	RST compact distributor/multi distributor				available on request	available on request	available on request
	Individual distribution box				available on request	available on request	available on request
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled			
	Connection cable Female – Free end						
	Extension cable Male – Female						
	Connection cable Ground – Female						
	Connection cable Contour European plug SK II – Female						

Connectors

Connector for cables of Ø 6 – 10 and 10 – 14 mm

				With spring clamp connections 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. 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 mm ² . Unassembled with cable gland ¹⁾ and locking device. See “Technical Data” for sheath and insulation strip lengths.		
Application	Coding	Cable diameter	Color	Part No.	Std. Pack	Part No.	Std. Pack
Female connector							
Mains 250 V	 L, ground, N	6 – 10 mm	gray black	96.031.0053.0		96.031.4053.0	
		10 – 14 mm	gray black	96.031.0153.0		96.031.4153.0	
		13 – 18 mm	gray black	96.031.0153.1		96.031.4153.1	
Mains 250/400 V	 1, 2, ground	6 – 10 mm	green	96.031.0055.7		96.031.4055.7	
		10 – 14 mm		96.031.0155.7		96.031.4155.7	
		13 – 18 mm					
Application	Coding	Cable diameter	Color	Part No.	Std. Pack	Part No.	Std. Pack
Male connector							
Mains 250 V	 L, ground, N	6 – 10 mm	gray black	96.032.0053.0		96.032.4053.0	
		10 – 14 mm	gray black	96.032.0153.0		96.032.4153.0	
		13 – 18 mm	gray black	96.032.0153.1		96.032.4153.1	
Mains 250/400 V	 1, 2, ground	6 – 10 mm	green	96.032.0055.7		96.032.4055.7	
		10 – 14 mm		96.032.0155.7		96.032.4155.7	
		13 – 18 mm					
				¹⁾ Cable gland with bend protection available on request ²⁾ With wire protection available on request			

52

Connector for cable Ø 13 – 18 mm

Splitter connector

With screw connection²⁾ for rigid, fine-stranded and stranded cables of max. 4.0 mm².
Unassembled with cable gland and locking device.

See "Technical Data" for sheath and insulation strip lengths.

Part No. Std. Pack

With spring clamp connections 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 gland¹⁾ and locking device.

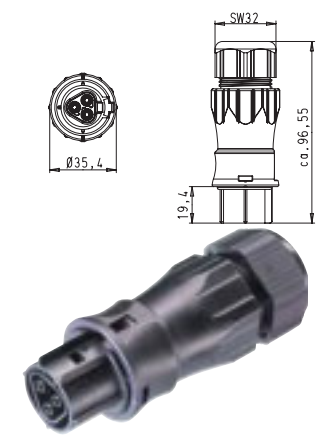
See "Technical Data" for sheath and insulation strip lengths as well as the ferrules to be used.

Part No. Std. Pack

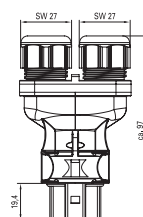
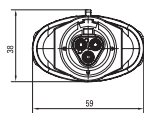
With screw connection²⁾ for rigid, fine-stranded and stranded cables of 0.75 – 2.5 mm².
Unassembled with cable gland¹⁾ and locking device.

See "Technical Data" for sheath and insulation strip lengths.

Part No. Std. Pack

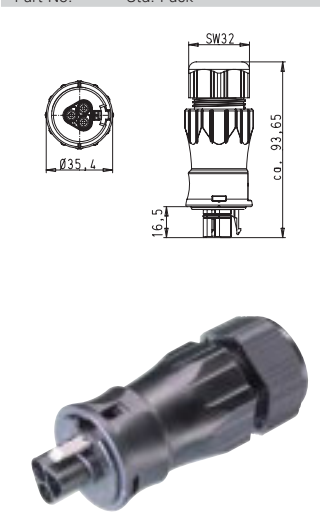


See "Accessories" for the mounting plate used to fasten the splitter connector.



See "Accessories" for the mounting plate used to fasten the splitter connector.

	96.031.0253.0 96.031.0253.1	96.031.4253.0 96.031.4253.1	
	96.031.0353.0 96.031.0353.1	96.031.4353.0 96.031.4353.1	
96.031.4553.0 96.031.4553.1			
96.031.4555.7	96.031.0255.7 96.031.0355.7	96.031.4255.7 96.031.4255.7	
Part No. Std. Pack			





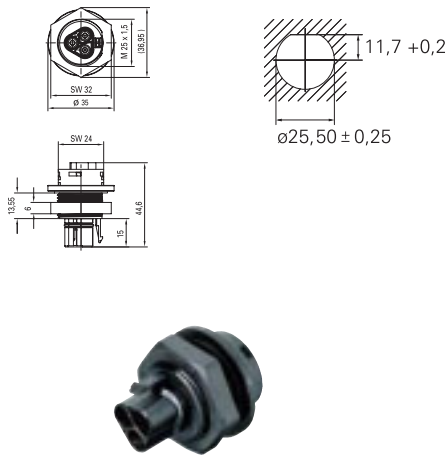
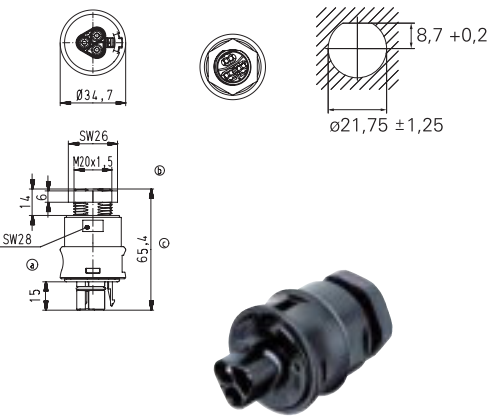
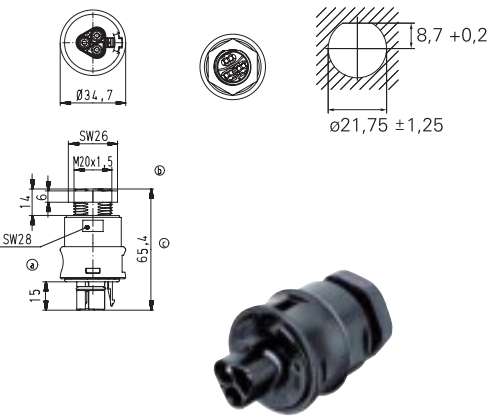
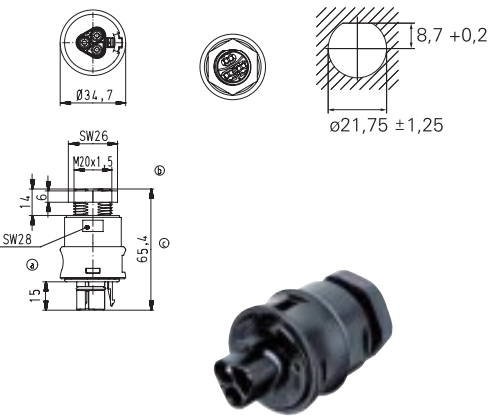


96.032.4553.0 96.032.4553.1
96.032.4555.7

Appliance connectors

Appliance connector M25, standard

Appliance connector M20, modular, straight

		<p>With spring clamp connections 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.</p>		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, external cable gland.</p>		<p>igid 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.</p>		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.</p>	
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Female connector		See "Technical Data" for insulation strip lengths and the ferrules to be used.		See "Technical Data" for insulation strip lengths.		See "Technical Data" for insulation strip lengths and the ferrules to be used.		See "Technical Data" for insulation strip lengths.	
									
		<p>Mains 250 V</p> <p>gray</p> <p>96.031.1053.0</p> <p>96.031.1053.1</p>		<p>96.031.5053.0</p> <p>96.031.5053.1</p>		<p>96.031.2053.0</p> <p>96.031.2053.1</p>		<p>96.031.6053.0</p> <p>96.031.6053.1</p>	
		<p>Mains 250/400 V</p> <p>green</p> <p>96.031.1055.7</p>		<p>96.031.5055.7</p>		<p>96.031.2055.7</p>		<p>96.031.6055.7</p>	
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Male connector									
		<p>Mains 250 V</p> <p>gray</p> <p>96.032.1053.0</p> <p>96.032.1053.1</p>		<p>96.032.5053.0</p> <p>96.032.5053.1</p>		<p>96.032.2053.0</p> <p>96.032.2053.1</p>		<p>96.032.6053.0</p> <p>96.032.6053.1</p>	
		<p>Mains 250/400 V</p> <p>green</p> <p>96.032.1055.7</p>		<p>96.032.5055.7</p>		<p>96.032.2055.7</p>		<p>96.032.6055.7</p>	

Appliance connector M16, modular, straight

Appliance connector M20, modular, angled

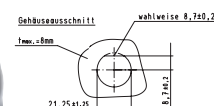
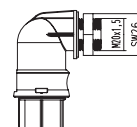
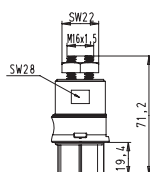
Female connector

With spring clamp connections 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 M16x1.5 thread, internal cable gland.

With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland.

With spring clamp connections 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.

With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.



Mains 250 V
L, N, ground

gray
black

96.031.2153.0
96.031.2153.1

96.031.6153.0
96.031.6153.1

96.033.2053.0
96.033.2053.1

96.033.6053.0
96.033.6053.1

Mains 250/400 V
1, 2, ground

green

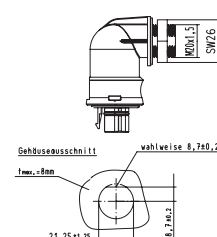
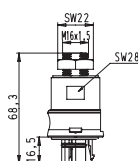
96.031.2155.7

96.031.6155.7

96.033.2055.7

96.033.6055.7

Male connector



Mains 250 V
L, N, ground

gray
black

96.032.2153.0
96.032.2153.1

96.032.6153.0
96.032.6153.1

96.034.2053.0
96.034.2053.1

96.034.6053.0
96.034.6053.1

Mains 250/400 V
1, 2, ground

green

96.032.2155.7

96.032.6155.7

96.034.2055.7

96.034.6055.7

Cable assemblies, 1.5 mm²

		Extension cable		Connection cable		Connection cable		Mains connection cable	
		H05VV-F 3G1,5		H05VV-F 3G1,5		H05VV-F 3G1,5		H05VV-F 3G1,5 mm ²	
		Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device		Safety plug RST female connector	
				Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm			
<div>Cable assemblies</div> <div><p>N = bl L = br ground = gn/yl</p></div> <div>Cable¹⁾ and shrinkage tube in black</div>									
	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack		
Mains 250 V L, N, ground		Black insulation							
		96.232.1000.1		96.232.1003.1		96.232.1004.1			
	1.0 m	96.232.2000.1		96.232.2003.1		96.232.2004.1			
	2.0 m	96.232.3000.1		96.232.3003.1		96.232.3004.1			
	3.0 m	96.232.4000.1		96.232.4003.1		96.232.4004.1			
	4.0 m	96.232.5000.1		96.232.5003.1		96.232.5004.1			
	5.0 m	96.232.6000.1		96.232.6003.1		96.232.6004.1			
	6.0 m	96.232.7000.1		96.232.7003.1		96.232.7004.1			
	7.0 m	96.232.8000.1		96.232.8003.1		96.232.8004.1			
	8.0 m								
		Gray insulation							
	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				
								All gray	
								99.706.0000.7	1.5 m
								99.707.0000.7	2.5 m
Mains 250/400 V 1, 2, ground		Green insulation							
		96.232.1001.7		96.232.1005.7		96.232.1006.7			
	1.0 m	96.232.2001.7		96.232.2005.7		96.232.2006.7			
	2.0 m	96.232.3001.7		96.232.3005.7		96.232.3006.7			
	3.0 m	96.232.4001.7		96.232.4005.7		96.232.4006.7			
	4.0 m	96.232.5001.7		96.232.5005.7		96.232.5006.7			
	5.0 m	96.232.6001.7		96.232.6005.7		96.232.6006.7			
	6.0 m	96.232.7001.7		96.232.7005.7		96.232.7006.7			
	7.0 m	96.232.8001.7		96.232.8005.7		96.232.8006.7			
	8.0 m								

¹⁾ Other cables available on request

²⁾ Other lengths available on request

Extension cable

Connection cable

Connection cable

Mains connection cable *Mains, 3 pole*

H07RN-F 3G1,5

Female – Male
with locking device

H07RN-F 3G1,5

Female – Free end
with ultrasonically welded wire ends

H07RN-F 3G1,5

Male – Free end
with ultrasonically welded wire ends and locking device

H07RN-F 3G1,5

Safety plug
with splash guard
RST female connector

Cable strip length: 35 mm
Insulation strip length: 9 mm

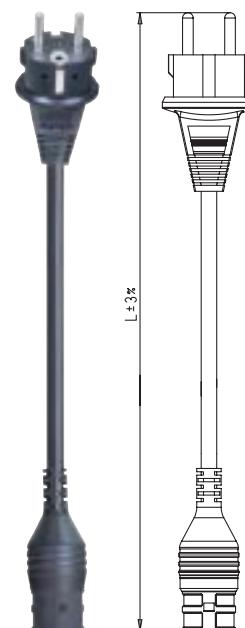
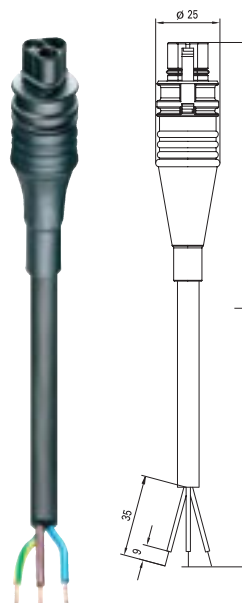
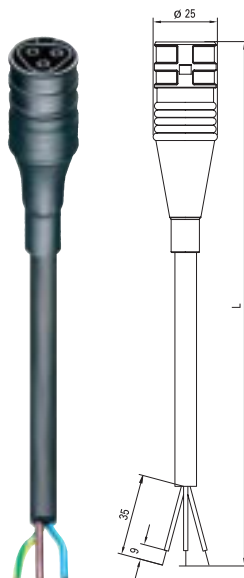
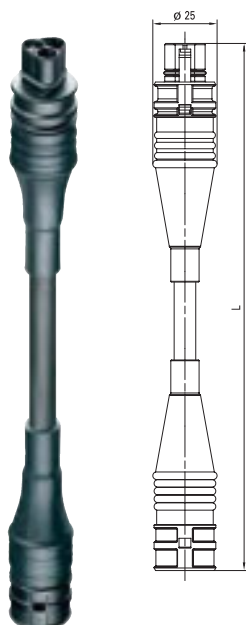
Cable strip length: 35 mm
Insulation strip length: 9 mm





Cable assemblies



N = bl
L = br
ground = gn/yl

Cable¹⁾ and shrinkage tube in black



	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack		
Mains 250 V L, N, ground	1.0 m 2.0 m 3.0 m 4.0 m 5.0 m 6.0 m 7.0 m 8.0 m	Black insulation 96.232.1030.1 96.232.2030.1 96.232.3030.1 96.232.4030.1 96.232.5030.1 96.232.6030.1 96.232.7030.1 96.232.8030.1		96.232.1033.1 96.232.2033.1 96.232.3033.1 96.232.4033.1 96.232.5033.1 96.232.6033.1 96.232.7033.1 96.232.8033.1		96.232.1034.1 96.232.2034.1 96.232.3034.1 96.232.4034.1 96.232.5034.1 96.232.6034.1 96.232.7034.1 96.232.8034.1		All black 99.704.0000.7 99.705.0000.7	1.5 m 2.5 m
 Female									
 Male									
	1.0 m 2.0 m 3.0 m 4.0 m 5.0 m 6.0 m 7.0 m 8.0 m	Gray insulation 96.232.1030.0 96.232.2030.0 96.232.3030.0 96.232.4030.0 96.232.5030.0 96.232.6030.0 96.232.7030.0 96.232.8030.0		96.232.1033.0 96.232.2033.0 96.232.3033.0 96.232.4033.0 96.232.5033.0 96.232.6033.0 96.232.7033.0 96.232.8033.0		96.232.1034.0 96.232.2034.0 96.232.3034.0 96.232.4034.0 96.232.5034.0 96.232.6034.0 96.232.7034.0 96.232.8034.0			
Mains 250/400 V 1, 2, ground	1.0 m 2.0 m 3.0 m 4.0 m 5.0 m 6.0 m 7.0 m 8.0 m	Green insulation 96.232.1031.7 96.232.2031.7 96.232.3031.7 96.232.4031.7 96.232.5031.7 96.232.6031.7 96.232.7031.7 96.232.8031.7		96.232.1035.7 96.232.2035.7 96.232.3035.7 96.232.4035.7 96.232.5035.7 96.232.6035.7 96.232.7035.7 96.232.8035.7		96.232.1036.7 96.232.2036.7 96.232.3036.7 96.232.4036.7 96.232.5036.7 96.232.6036.7 96.232.7036.7 96.232.8036.7			
 Female									
 Male									

¹⁾ Other cables available on request

²⁾ Other lengths available on request

Cable assemblies, 2.5 mm²

		H05VV-F 3G2,5 Female – Male with locking device	H05VV-F 3G2,5 Female – Free end with ultrasonically welded wire ends	H05VV-F 3G2,5 Male – Free end with ultrasonically welded wire ends and locking device	
			Cable strip length: 35 mm Insulation strip length: 9 mm	Cable strip length: 35 mm Insulation strip length: 9 mm	
<div>Cable assemblies</div> <div><p>N = bl L = br ground = gn/yl</p></div> <div>Cable¹⁾ and shrinkage tube in black</div>					
	Length ²⁾	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	
Mains 250 V L, N, ground		Black insulation			
	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	
		Gray insulation			
	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	
Mains 250/400 V 1, 2, ground		Green insulation			
	1.0 m	96.233.1001.7	96.233.1005.7	96.233.1006.7	
	2.0 m	96.233.2001.7	96.233.2005.7	96.233.2006.7	
	3.0 m	96.233.3001.7	96.233.3005.7	96.233.3006.7	
	4.0 m	96.233.4001.7	96.233.4005.7	96.233.4006.7	
	5.0 m	96.233.5001.7	96.233.5005.7	96.233.5006.7	
	6.0 m	96.233.6001.7	96.233.6005.7	96.233.6006.7	
	7.0 m	96.233.7001.7	96.233.7005.7	96.233.7006.7	
	8.0 m	96.233.8001.7	96.233.8005.7	96.233.8006.7	

¹⁾ Other cables available on request
²⁾ Other lengths available on request

Extension cable

Connection cable

Connection cable

H07RN-F 3G2,5

Female – Male
with locking device

H07RN-F 3G2,5

Female – Free end
with ultrasonically welded wire ends

H07RN-F 3G2,5

Male – Free end
with ultrasonically welded wire ends and locking device

Cable strip length: 35 mm
Insulation strip length: 9 mm

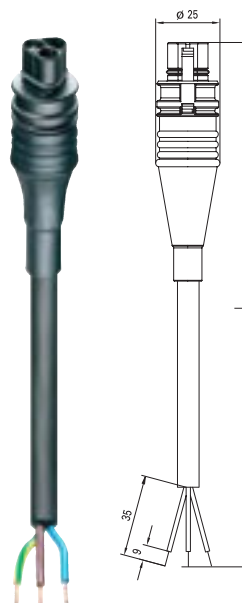
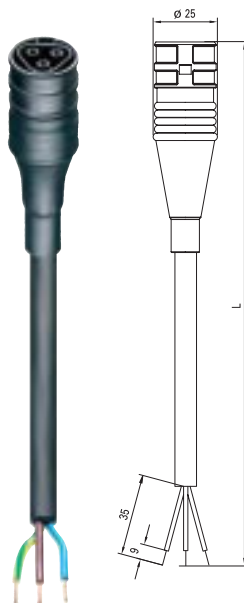
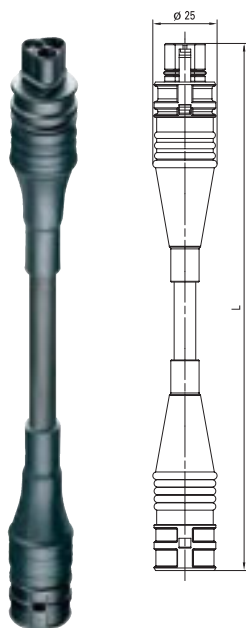
Cable strip length: 35 mm
Insulation strip length: 9 mm

Cable assemblies



N = bl
L = br
ground = gn/yl

Cable¹⁾ and shrinkage tube in black



	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Mains 250 V		Black insulation					
L, N, ground	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	
Female							
Male		Gray insulation					
	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	
Mains 250/400 V		Green insulation					
1, 2, ground	1.0 m	96.233.1031.7		96.233.1035.7		96.233.1036.7	
	2.0 m	96.233.2031.7		96.233.2035.7		96.233.2036.7	
	3.0 m	96.233.3031.7		96.233.3035.7		96.233.3036.7	
	4.0 m	96.233.4031.7		96.233.4035.7		96.233.4036.7	
	5.0 m	96.233.5031.7		96.233.5035.7		96.233.5036.7	
	6.0 m	96.233.6031.7		96.233.6035.7		96.233.6036.7	
	7.0 m	96.233.7031.7		96.233.7035.7		96.233.7036.7	
	8.0 m	96.233.8031.7		96.233.8035.7		96.233.8036.7	
Female							
Male							

¹⁾ Other cables available on request

²⁾ Other lengths available on request

Distribution units

Distribution block, 1E/3A		Distribution block, 1E/3A		
	with mounting option with locking levers 1 input, male connector, 3 pole 3 outputs, female connector, 3 pole	without mounting option with locking levers 1 input, male connector, 3 pole 3 outputs, female connector, 3 pole		
Color	Part No.	Std. Pack	Part No.	Std. Pack
Mains 250 V	gray black	96.030.0153.0 96.030.0153.1	96.030.0253.0 96.030.0253.1	
L, N, ground				
Mains 250/400 V	green	96.030.0155.7	96.030.0255.7	
1, 2, ground				

RST compact distributor

RST multi distributor

Distribution box

- Equip as needed with M25 appliance connectors 2 to 5 pole
- 1 input; 3 outputs
- pre-wired with 2.5 mm²
- with mounting option

- Equip as needed with M25 appliance connectors 2 to 5 pole
- 1 input; 7 outputs (max.)
- Safety fuses 6.3 or 10 A can be integrated
- pre-wired with 2.5 mm²
- with mounting option

The individual distribution boxes offer optimum solutions for your specific application. The distributors 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 carried out 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

Part No. Std. Pack

Part No. Std. Pack



Forecasted for the 4th quarter of 2006

Forecasted for the 4th quarter of 2006

Available on request

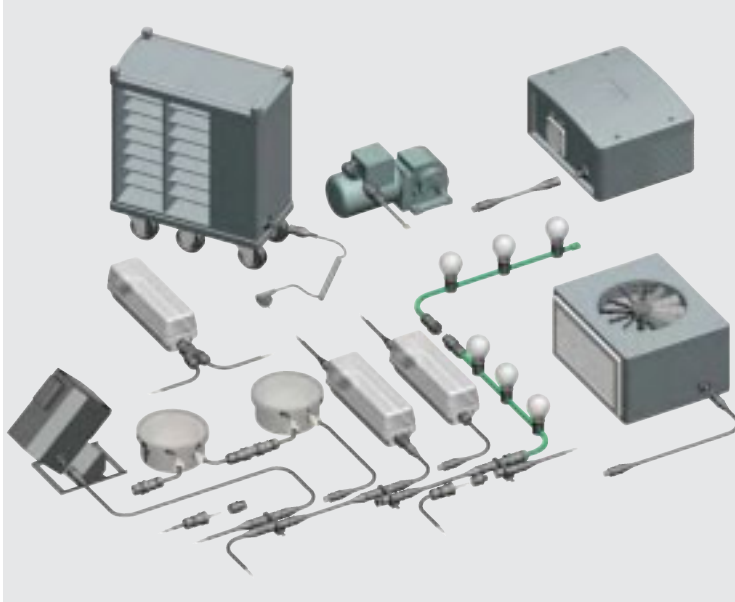
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RST 25i3

Single-phase supply with ENS

Application example



General


The three pole system is designed for a current of max. 25 A and is therefore predestined for applications in solar technology (AC side). Special collective distributors are to bundle the electrical power of up to 6 inverters and are thus completing the system.

These connectors have their own mechanical coding.

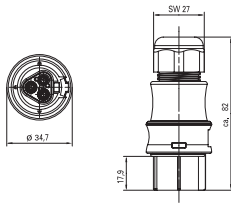

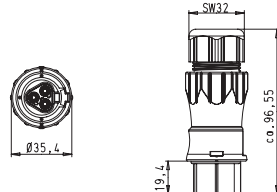

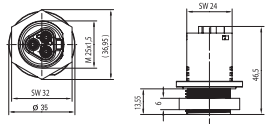


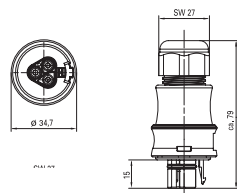

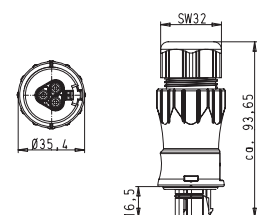

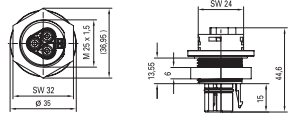


This means that only associated pairs of male and female can be connected with the correct polarity. This ensures a clear separation from the connectors of the other product series.

RST 25i3

Coding

					Application
					Single-phase supply with 25 A (ENS)
					Mechanical coding
					L, N, ground
					
Name	Description	Connection style	Strain relief housing	Connection points per pole	concrete gray
Connectors	1 x cable entry	Screw technology Spring clamp techn.	yes	1	
	Collective distributor RST RAN Solar				
Distribution units	Collective box RST Solar				
	Connection cable Male – Free end				
Cable assemblies	Connection cable Female – Free end	pre-assembled	pre-assembled	pre-assembled	
	Extension cable Male – Female				

Components 25 A

			Connectors		Connectors		M 25 appliance connector	
			Screw technology for cables with a diameter of 10 – 14 mm. Screw technology for solid and f ine-stranded wires up to 4.0 mm ²		Screw technology for cables with a diameter of 13 – 18 mm. Screw technology for solid and fine-stranded wires up to 4.0 mm ² ¹⁾		Screw technology for solid and fine-stranded wires up to 6.0 mm ²	
Application	Coding	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Female connector			 		 		 	
Single-phase supply with 25 A (ENS)	 L, N, ground	concrete gray/ black	96.031.4154.3		96.031.4554.3		96.031.5054.3	
Type								
Application	Coding	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Male connector			 		 		 	
Single-phase supply with 25 A (ENS)	 L, N, ground	concrete gray/ black	96.032.4154.3		96.032.4554.3		96.032.5054.3	
Type								
¹⁾ Larger cross sections available on request								

64

Collective distributor RST RAN Solar

Collective distribution box RST Solar

Single-phase supply with ENS

6 x inputs RST 25i3 / gray coding
1 x cable gland M40
2 x cable gland M20
5 x connector clamps 35 mm²
6 x circuit breakers B25

Dimensions in mm
L x W x H
350 x 300 x 100 mm

3 x inputs RST 25i3 / gray coding
1 x cable gland M32
2 x cable gland M20
5 x connector clamps 10 mm²

Dimensions in mm
L x W x H
180 x 180 x 90 mm

Part No. Std. Pack

Part No. Std. Pack



Sheet metal/
powder-coated

Plastic

99.512.0000.7

99.502.0000.7


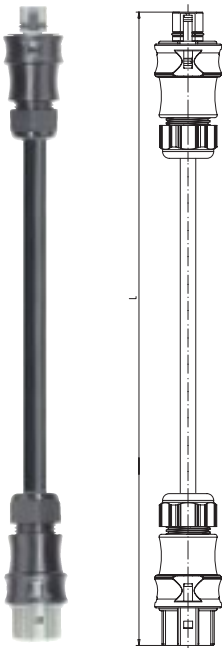
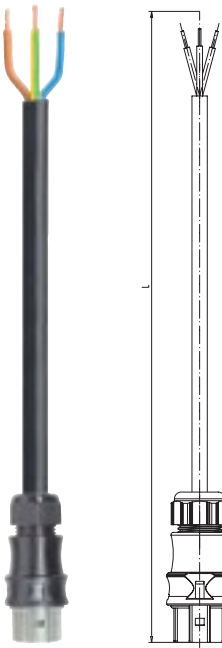
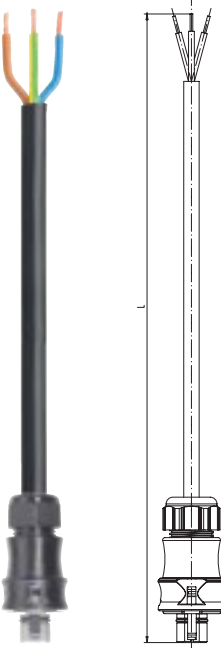


Customized solutions
available on request


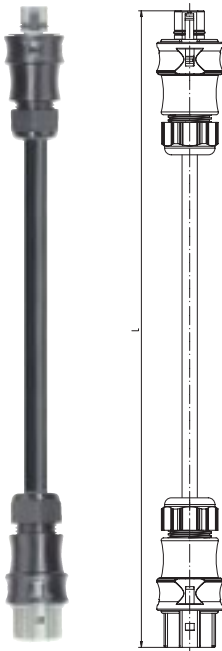
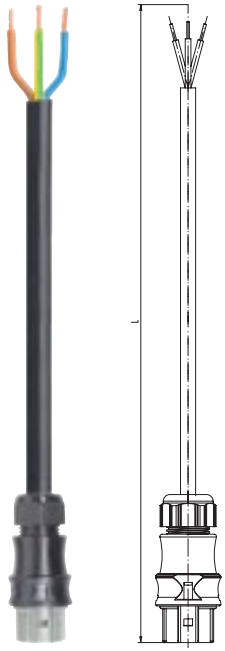




Examples:

- Stainless steel (picture)
- C 25 circuit breaker
- with overvoltage protection
- pre-assembled U-rail

Cable assemblies, 4.0 mm²

			Extension cable		Connection cable		Connection cable		
			H05VV-F 3G4,0 ¹⁾		H05VV-F 3G4,0 ¹⁾		H05VV-F 3G4,0 ¹⁾		
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device		
					Cable strip length: 35 mm Insulation strip length: 9 mm Cable diameter H05VV-F ³⁾ : 10.5 – 13.1 mm		Cable strip length: 35 mm Insulation strip length: 9 mm Cable diameter H05VV-F ³⁾ : 10.5 – 13.1 mm		
Cable assemblies									
<div><p>ground = gn/yl N = bl L = br</p></div> <p>The cable colors have been adapted to the new European standard HD 208 S2. The assignment corresponds to international recommendations.</p>									
									
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Single-phase supply with 25 A (ENS)	L, N, ground	concrete gray/black	1.0 m	96.834.1000.3		96.834.1003.3		96.834.1004.3	
			1.5 m	96.834.1500.3		96.834.1503.3		96.834.1504.3	
			2.0 m	96.834.2000.3		96.834.2003.3		96.834.2004.3	
			2.5 m	96.834.2500.3		96.834.2503.3		96.834.2504.3	
			3.0 m	96.834.3000.3		96.834.3003.3		96.834.3004.3	
			3.5 m	96.834.3500.3		96.834.3503.3		96.834.3504.3	
	4.0 m	96.834.4000.3		96.834.4003.3		96.834.4004.3			
	L, N, ground	Cable: black							
									

			Extension cable		Connection cable		Connection cable	
			H07RN-F 3G4,0 ¹⁾		H07RN-F 3G4,0 ¹⁾		H07RN-F 3G4,0 ¹⁾	
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device	
					Cable strip length: 35 mm Insulation strip length: 9 mm Cable diameter H07RN-F ³⁾ : 12.7 – 16.2 mm		Cable strip length: 35 mm Insulation strip length: 9 mm Cable diameter H07RN-F ³⁾ : 12.7 – 16.2 mm	
Cable assemblies								
<div><p>ground = gn/yl N = bl L = br</p></div> <p>The cable colors have been adapted to the new European standard HD 208 S2. The assignment corresponds to international recommendations.</p>								
Application		Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack
Single-phase supply with 25 A (ENS)	<div>L, N, ground</div> <div></div> <div>Female</div>	concrete gray/black	1.0 m	96.834.1030.3		96.834.1033.3		
			1.5 m	96.834.1530.3		96.834.1533.3		
			2.0 m	96.834.2030.3		96.834.2033.3		
			2.5 m	96.834.2530.3		96.834.2533.3		
			3.0 m	96.834.3030.3		96.834.3033.3		
	<div>L, N, ground</div> <div></div> <div>Male</div>	Cable: black	3.5 m	96.834.3530.3		96.834.3533.3		
			4.0 m	96.834.4030.3		96.834.4033.3		
						96.834.1034.3		
						96.834.1534.3		
						96.834.2034.3		

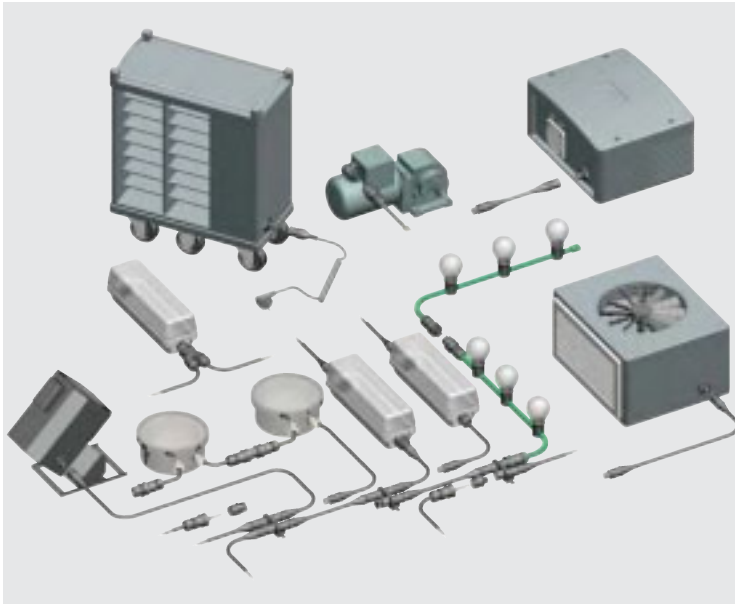
gesis[®]



RST 20i4

Mains, 4 pole

Application example



General

The four pole connector is based on the 5 pole variation with one pole left empty.

These connectors have been designed for connecting electrical drives.

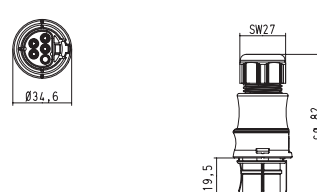





They are mechanically coded. This means that only associated pairs of male and female can be connected with the correct polarity. This ensures a clear separation from the connectors of the other product series.

Coding

					Application	
					Mains 250/400 V	
					Mechanical coding	
					1, 2, 3, ground	
Name	Description	Connection style	Strain relief housing	Connection points per pole	gray	black
Connectors	1 x cable entry	Screw technology Crimp technology	yes	1		
	2 x cable entry	Screw technology	yes	1		
Distribution units	RST compact distributor/ multi distributor				available on request	available on request
	Individual distribution box				available on request	available on request
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled		
	Connection cable Female – Free end					
	Extension cable Male – Female					

Connectors

Connector for cables of Ø 6 – 10 and 10 – 14 mm

				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. See “Technical Data” for sheath and insulation strip lengths.		With crimp contacts for fine-stranded and stranded cables of 0.75 – 4.0 mm ² . Unassembled with cable gland ¹⁾ and locking device. Crimp contacts separately available under “Accessories” See “Technical Data” for sheath and insulation strip lengths.	
Application	Coding	Cable	Color	Part No.	Std. Pack	Part No.	Std. Pack
Female connector				 			
Mains 250/400 V	 1, 2, 3, ground	6 – 10 mm	gray black	96.041.4053.0 96.041.4053.1		96.141.0053.0 96.141.0053.1	3rd. quart. 2006 3rd. quart. 2006
		10 – 14 mm	gray black	96.041.4153.0 96.041.4153.1		96.141.0153.0 96.141.0153.1	3rd. quart. 2006 3rd. quart. 2006
		13 – 18 mm	gray black				
Application	Coding	Cable	Color	Part No.	Std. Pack	Part No.	Std. Pack
Male connector				 			
Mains 250/400 V	 1, 2, 3, ground	6 – 10 mm	gray black	96.042.4053.0 96.042.4053.1		96.142.0053.0 96.142.0053.1	3rd. quart. 2006 3rd. quart. 2006
		10 – 14 mm	gray black	96.042.4153.0 96.042.4153.1		96.142.0153.0 96.142.0153.1	3rd. quart. 2006 3rd. quart. 2006
		13 – 18 mm	gray black				
				¹⁾ Cable gland with bend protection available on request ²⁾ With wire protection available on request			

Connector for cable Ø 13 – 18 mm

Splitter connector

With screw connection²⁾ for rigid, fine-stranded and stranded cables of max. 4.0 mm². Unassembled with cable gland and locking device.

See "Technical Data" for sheath and insulation strip lengths.

With crimp contacts for fine-stranded and stranded cables of 0.75 – 4.0 mm². Unassembled with cable gland¹⁾ and locking device. Crimp contacts separately available under "Accessories"

See "Technical Data" for sheath and insulation strip lengths.

With screw connection²⁾ for rigid, fine-stranded and stranded cables of 0.75 – 1.5 mm². Unassembled with cable gland¹⁾ and locking device.

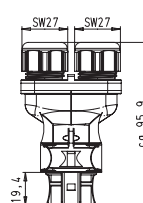
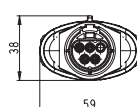
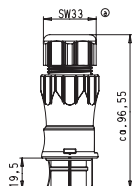
See "Technical Data" for sheath and insulation strip lengths.

Part No. Std. Pack

Part No. Std. Pack

Part No. Std. Pack

See "Accessories" for the mounting plate used to fasten the splitter connector.



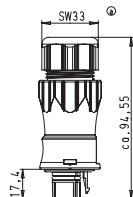
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96.041.4553.1

96.141.0553.0 3rd. quart. 2006
96.141.0553.1 3rd. quart. 2006

96.041.4253.0
96.041.4253.1
96.041.4353.0
96.041.4353.1

Part No. Std. Pack

Part No. Std. Pack



96.042.4553.0
96.042.4553.1

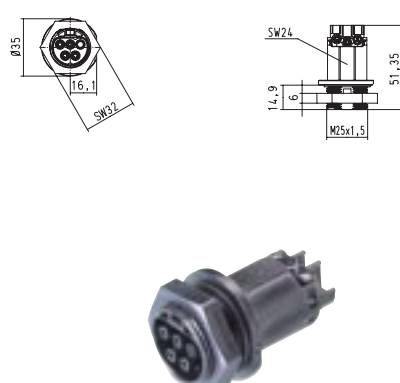



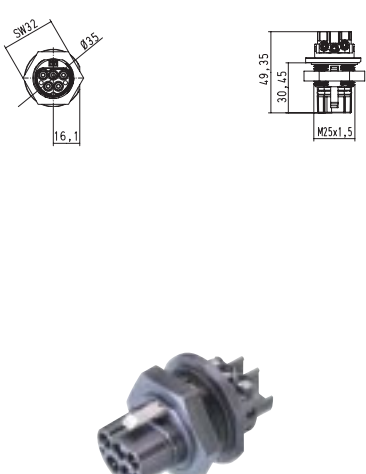
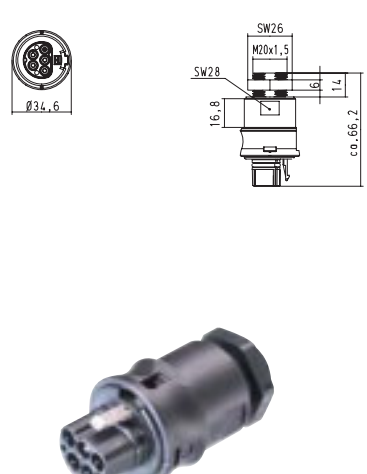


96.142.0553.0 3rd. quart. 2006
96.142.0553.1 3rd. quart. 2006

¹⁾ Cable gland with bend protection available on request
²⁾ With wire protection available on request

Appliance connectors

Appliance connector M25, standard

Appliance connector M20, modular, straight

Appliance connector M25, standard												
		With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm ² . 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, internal cable gland. See “Technical Data” for insulation strip lengths.			With crimp connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm ² . 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, external cable gland. Crimp contacts separately available under “Accessories” See “Technical Data” for insulation strip lengths.			With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm ² . 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.		With crimp connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm ² . 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland. Crimp contacts separately available under “Accessories” See “Technical Data” for insulation strip lengths.		
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack			
Female connector												
												
Mains 250/400 V 1, 2, 3, ground	gray black	96.041.5053.0 96.041.5053.1		96.141.1053.0 96.141.1053.1	3rd. quart. 2006 3rd. quart. 2006	96.041.6053.0 96.041.6053.1		96.141.2053.0 96.141.2053.1	3rd. quart. 2006 3rd. quart. 2006			
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack			
Male connector												
												
Mains 250/400 V 1, 2, 3, ground	gray black	96.042.5053.0 96.042.5053.1		96.142.1053.0 96.142.1053.1	3rd. quart. 2006 3rd. quart. 2006	96.042.6053.0 96.042.6053.1		96.142.2053.0 96.142.2053.1	3rd. quart. 2006 3rd. quart. 2006			

Appliance connector M16, modular, straight

Appliance connector M20, modular, angled

With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland.

See "Technical Data" for insulation strip lengths.

With crimp connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland. Crimp contacts separately available under "Accessories"

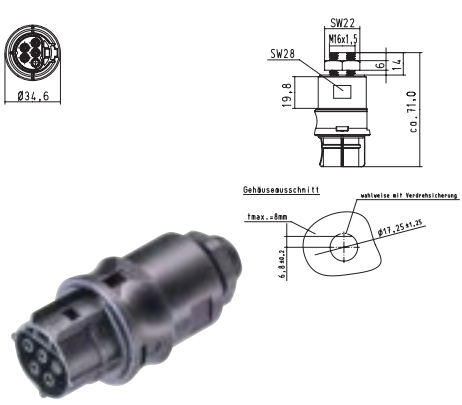
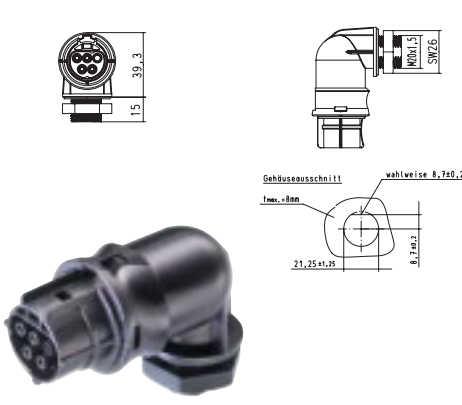
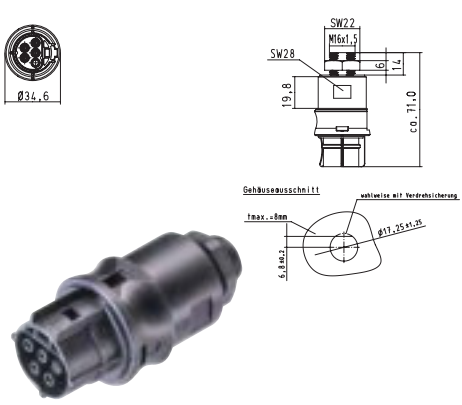
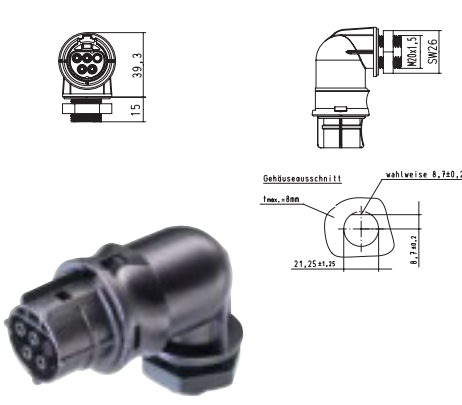
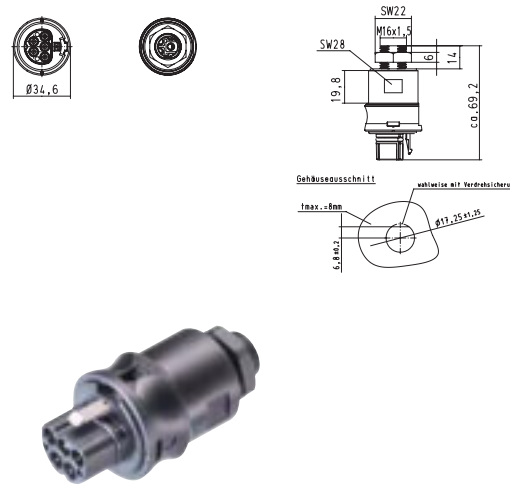
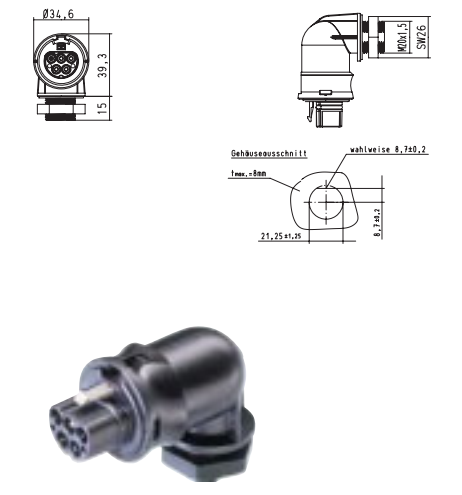
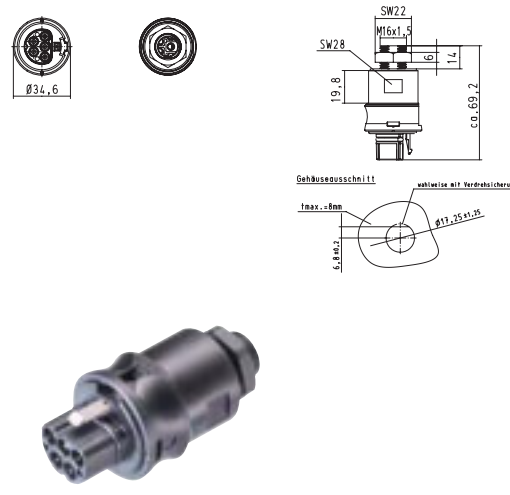
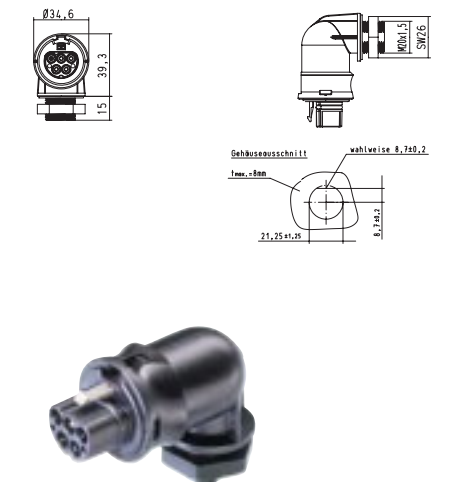
See "Technical Data" for insulation strip lengths.

With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.


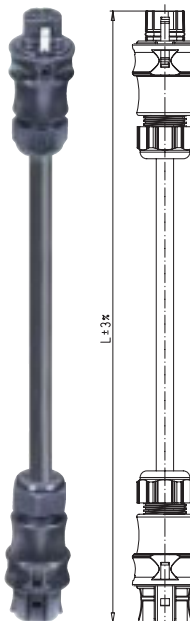
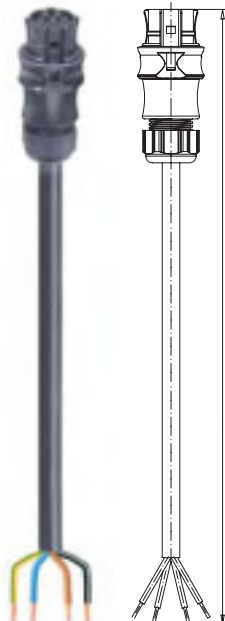
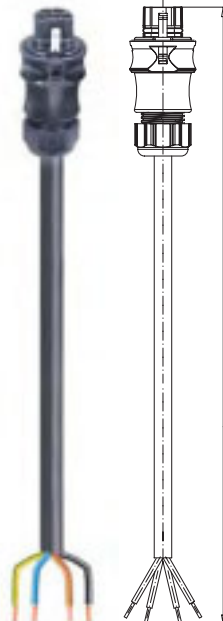


See "Technical Data" for insulation strip lengths.

With crimp connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland. Crimp contacts separately available under "Accessories"

See "Technical Data" for insulation strip lengths.

Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Female connector									
Mains 250/400 V 1, 2, 3, ground	gray black	96.041.6153.0 96.041.6153.1		96.141.2153.0 96.141.2153.1	3rd. quart. 2006 3rd. quart. 2006	96.043.6053.0 96.043.6053.1		96.143.2053.0 96.143.2053.1	3rd. quart. 2006 3rd. quart. 2006
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Male connector									
Mains 250/400 V 1, 2, 3, ground	gray black	96.042.6153.0 96.042.6153.1		96.142.2153.0 96.142.2153.1	3rd. quart. 2006 3rd. quart. 2006	96.044.6053.0 96.044.6053.1		96.144.2053.0 96.144.2053.1	3rd. quart. 2006 3rd. quart. 2006
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack


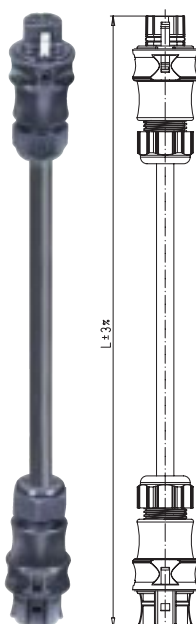
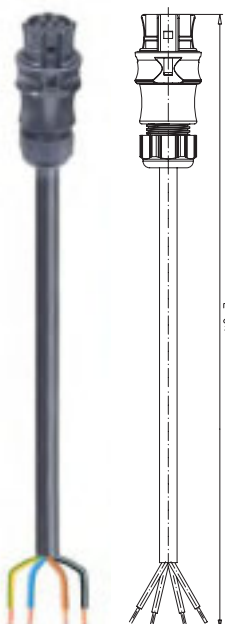
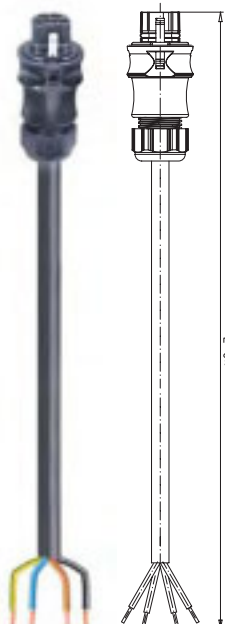


Cable assemblies, 1.5 mm²

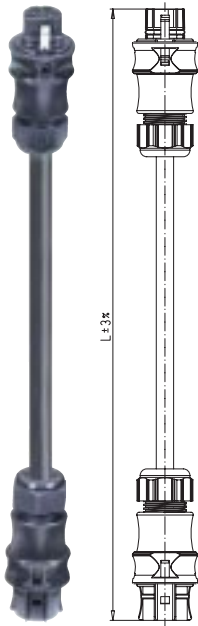
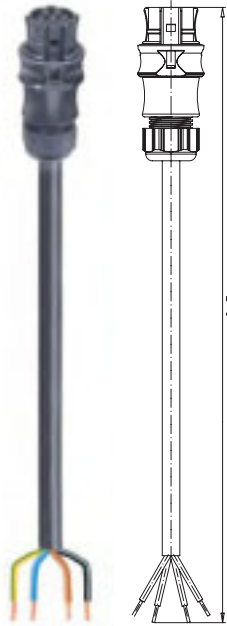
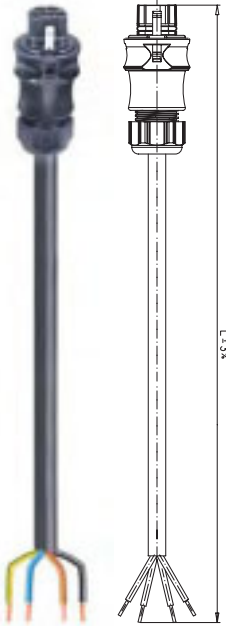


			Extension cable		Connection cable		Connection cable		
			H05VV-F 4G1,5		H05VV-F 4G1,5		H05VV-F 4G1,5		
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device		
					Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm		
Cable assemblies									
<div><p>ground = gn/yl 3 = bl 1 = br 2 = bk</p><p>Cable¹⁾ in black Connector in black Screw technology</p></div>									
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Mains 250/400 V	1, 2, 3, ground	black	1.0 m	96.442.1000.1		96.442.1003.1		96.442.1004.1	
	 Female		2.0 m	96.442.2000.1		96.442.2003.1		96.442.2004.1	
			3.0 m	96.442.3000.1		96.442.3003.1		96.442.3004.1	
			4.0 m	96.442.4000.1		96.442.4003.1		96.442.4004.1	
			5.0 m	96.442.5000.1		96.442.5003.1		96.442.5004.1	
			6.0 m	96.442.6000.1		96.442.6003.1		96.442.6004.1	
			7.0 m	96.442.7000.1		96.442.7003.1		96.442.7004.1	
			8.0 m	96.442.8000.1		96.442.8003.1		96.442.8004.1	
	1, 2, 3, ground	Cable: black							
	 Male								

¹⁾ Other cables available on request
²⁾ Other lengths available on request

			Extension cable		Connection cable		Connection cable	
			H07RN-F 4G1,5		H07RN-F 4G1,5		H07RN-F 4G1,5	
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device	
					Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm	
Cable assemblies								

Cable assemblies, 2.5 mm²




				Extension cable		Connection cable		Connection cable		
				H05VV-F 4G2,5		H05VV-F 4G2,5		H05VV-F 4G2,5		
				Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device		
						Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm		
Cable assemblies										
<div><p>ground = gn/yl 3 = bl 1 = br 2 = bk</p><p>Cable¹⁾ in black Connector in black Screw technology</p></div>										
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	
Mains 250/400 V	1, 2, 3, ground  Female	black	1.0 m	96.443.1000.1		96.443.1003.1		96.443.1004.1		
			2.0 m	96.443.2000.1		96.443.2003.1		96.443.2004.1		
			3.0 m	96.443.3000.1		96.443.3003.1		96.443.3004.1		
			4.0 m	96.443.4000.1		96.443.4003.1		96.443.4004.1		
			5.0 m	96.443.5000.1		96.443.5003.1		96.443.5004.1		
			6.0 m	96.443.6000.1		96.443.6003.1		96.443.6004.1		
			7.0 m	96.443.7000.1		96.443.7003.1		96.443.7004.1		
	8.0 m	96.443.8000.1		96.443.8003.1		96.443.8004.1				
	1, 2, 3, ground  Male	Cable: black								

			Extension cable		Connection cable		Connection cable	
			H07RN-F 4G2,5		H07RN-F 4G2,5		H07RN-F 4G2,5	
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device	
					Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm	
Cable assemblies								
			Length ¹⁾	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack
Mains 250/400 V	1, 2, 3, ground  Female	black	1.0 m	96.443.1030.1	96.443.1033.1	96.443.1034.1	96.443.1034.1	96.443.1034.1
			2.0 m	96.443.2030.1	96.443.2033.1	96.443.2034.1	96.443.2034.1	96.443.2034.1
			3.0 m	96.443.3030.1	96.443.3033.1	96.443.3034.1	96.443.3034.1	96.443.3034.1
			4.0 m	96.443.4030.1	96.443.4033.1	96.443.4034.1	96.443.4034.1	96.443.4034.1
			5.0 m	96.443.5030.1	96.443.5033.1	96.443.5034.1	96.443.5034.1	96.443.5034.1
			6.0 m	96.443.6030.1	96.443.6033.1	96.443.6034.1	96.443.6034.1	96.443.6034.1
			7.0 m	96.443.7030.1	96.443.7033.1	96.443.7034.1	96.443.7034.1	96.443.7034.1
			8.0 m	96.443.8030.1	96.443.8033.1	96.443.8034.1	96.443.8034.1	96.443.8034.1
	1, 2, 3, ground  Male	Cable: black						

¹⁾ Other cables available on request

²⁾ Other lengths available on request

Distribution units

RST compact distributor			RST multi distributor		Distribution box
	<ul style="list-style-type: none"> – Equip as needed with M25 appliance connectors 2 to 5 pole – 1 input; 3 outputs – pre-wired with 2.5 mm² – with mounting option 		<ul style="list-style-type: none"> – Equip as needed with M25 appliance connectors 2 to 5 pole – 1 input; 7 outputs (max.) – Safety fuses 6.3 or 10 A can be integrated – pre-wired with 2.5 mm² – with mounting option 		<p>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 carried out 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.</p>
Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No. Std. Pack
					
	Forecasted for the 4th quarter of 2006		Forecasted for the 4th quarter of 2006		Available on request

RST 20i4

Mains, 4 pole

RST 20i4

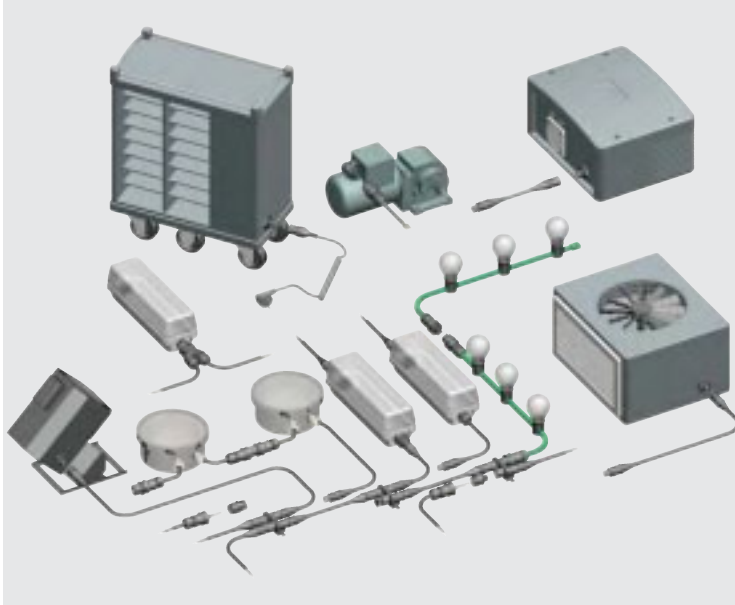
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RST 20i5

Mains, 5 pole, low voltage, mains + dimming

Application example






General

The 5 pole connectors come in three variations. The standard version for general mains applications; a version to combine mains and dimming signals; and finally a version for low voltage applications.





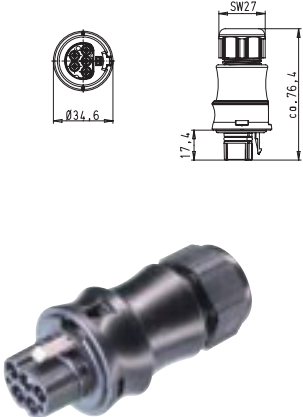



All connectors are mechanically coded. This means that only associated pairs of male and female can be connected with the correct polarity. You therefore have the security of a clear separation of different applications without having to redo any incorrect connections. The color of the connectors indicates the links that belong together.

Coding

					Application			
					Mains 250/400 V		50 V, LV, bus signals	Mains 250 V + dimming
					Mechanical coding			
					3, ground, N, 2, 1		1, 2, 3, 4, 5	L, ground, N, +, -
								
Name	Description	Connection style	Strain relief housing	Connection points per pole	gray	black	brown	turquoise
Connectors	1 x cable entry	Screw technology	yes	1				
	2 x cable entry	Crimp technology	yes	1				
Distribution units	RST compact distributor/ multi distributor	Screw technology			available on request	available on request	available on request	available on request
	Individual distribution box				available on request	available on request	available on request	available on request
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled				
	Connection cable Female – Free end							
	Extension cable Male – Female							

Connectors

Connector for cables of Ø 6 – 10 and 10 – 14 mm

					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. See "Technical Data" for sheath and insulation strip lengths.		With crimp contacts for fine-stranded and stranded cables of 0.75 – 4.0 mm ² . Unassembled with cable gland ¹⁾ and locking device. Crimp contacts separately available under "Accessories" See "Technical Data" for sheath and insulation strip lengths.	
Application	Coding	Cable	Color		Part No.	Std. Pack	Part No.	Std. Pack
Female connector								
Mains 250/400 V		6 – 10 mm	gray black	96.051.4053.0 96.051.4053.1	96.151.0053.0 96.151.0053.1	3rd. quart. 2006 3rd. quart. 2006		
		10 – 14 mm	gray black	96.051.4153.0 96.051.4153.1	96.151.0153.0 96.151.0153.1	3rd. quart. 2006 3rd. quart. 2006		
		13 – 18 mm	gray black					
Mains 250 V + dimming		6 – 10 mm	turquoise	96.051.4053.6 96.051.4153.6	96.151.0053.6 96.151.0153.6	3rd. quart. 2006 3rd. quart. 2006		
		10 – 14 mm						
		13 – 18 mm						
50 V, LV, bus signals		6 – 10 mm	brown	96.051.4051.4 96.051.4151.4	96.151.0051.4 96.151.0151.4	3rd. quart. 2006 3rd. quart. 2006		
		10 – 14 mm						
		13 – 18 mm						
Application	Coding	Cable	Color		Part No.	Std. Pack	Part No.	Std. Pack
Male connector								
Mains 250/400 V		6 – 10 mm	gray black	96.052.4053.0 96.052.4053.1	96.152.0053.0 96.152.0053.1	3rd. quart. 2006 3rd. quart. 2006		
		10 – 14 mm	gray black	96.052.4153.0 96.052.4153.1	96.152.0153.0 96.152.0153.1	3rd. quart. 2006 3rd. quart. 2006		
		13 – 18 mm	gray black					
Mains 250 V + dimming		6 – 10 mm	turquoise	96.052.4053.6 96.052.4153.6	96.152.0053.6 96.152.0152.6	3rd. quart. 2006 3rd. quart. 2006		
		10 – 14 mm						
		13 – 18 mm						
50 V, LV, bus signals		6 – 10 mm	brown	96.052.4051.4 96.052.4151.4	96.152.0051.4 96.152.0151.4	3rd. quart. 2006 3rd. quart. 2006		
		10 – 14 mm						
		13 – 18 mm						

¹⁾ Cable gland with bend protection available on request

²⁾ With wire protection available on request

Connector for cable Ø 13 – 18 mm

With screw connection²⁾ for rigid, fine-stranded and stranded cables of max. 4.0 mm². Unassembled with cable gland and locking device.

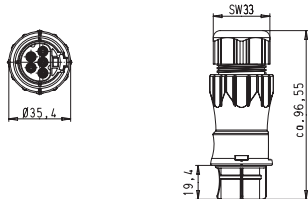
See "Technical Data" for sheath and insulation strip lengths.

Part No. Std. Pack

With crimp contacts for fine-stranded and stranded cables of 0.75 – 4.0 mm². Unassembled with cable gland¹⁾ and locking device. Crimp contacts separately available under "Accessories"

See "Technical Data" for sheath and insulation strip lengths.

Part No. Std. Pack



Splitter connector

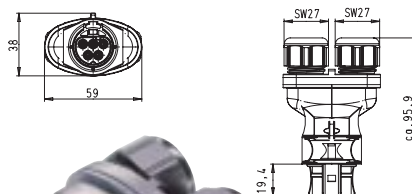
Mains, 5 pole, low voltage, mains + dimming

With screw connection²⁾ for rigid, fine-stranded and stranded cables of 0.75 – 1.5 mm². Unassembled with cable gland¹⁾ and locking device.

See "Technical Data" for sheath and insulation strip lengths.

Part No. Std. Pack

See "Accessories" for the mounting plate used to fasten the splitter connector.



96.051.4253.0
96.051.4253.1
96.051.4353.0
96.051.4353.1

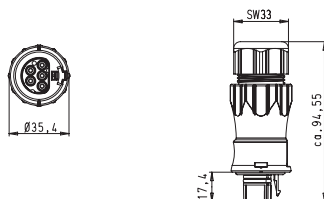
96.051.4553.0 96.151.0553.0 3rd. quart. 2006
96.051.4553.0 96.151.0553.0 3rd. quart. 2006

96.051.4553.6 96.151.0553.6 3rd. quart. 2006

96.051.4553.4 96.151.0553.4 3rd. quart. 2006

Part No. Std. Pack

Part No. Std. Pack



96.051.4253.6
96.051.43.53.6

96.051.4251.4
96.051.4351.4

96.052.4553.0 96.152.0553.0 3rd. quart. 2006
96.052.4553.0 96.152.0553.0 3rd. quart. 2006

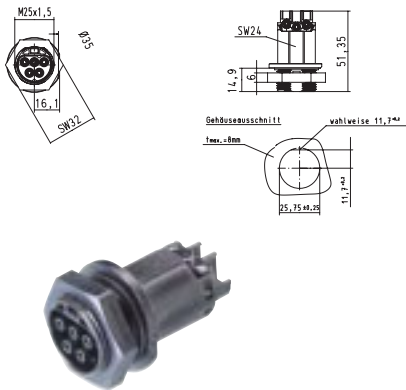







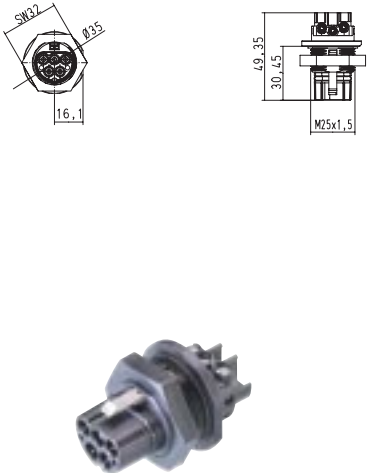
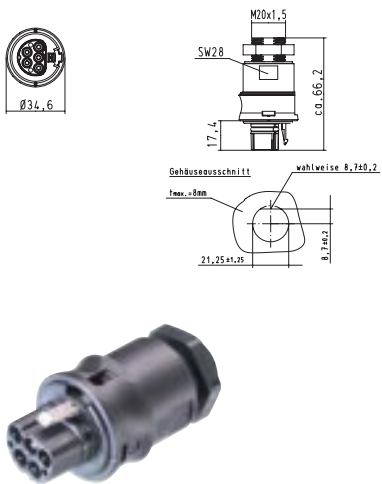






96.052.4551.6 96.152.0551.6 3rd. quart. 2006

96.052.4551.4 96.152.0551.4 3rd. quart. 2006

Appliance connectors

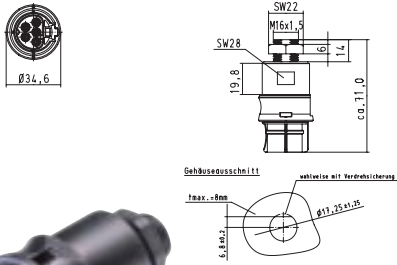
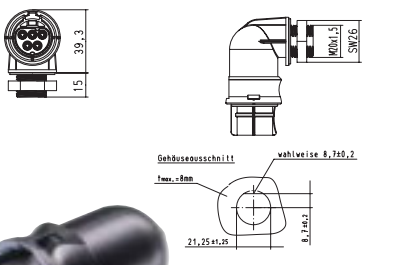


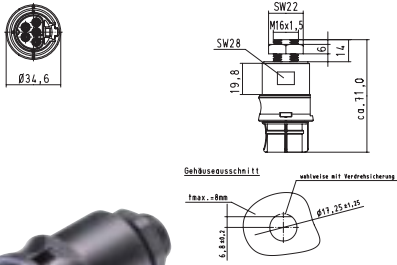
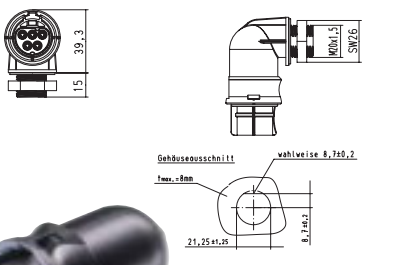


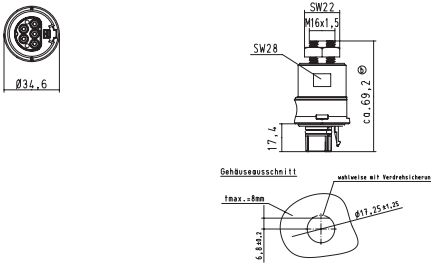
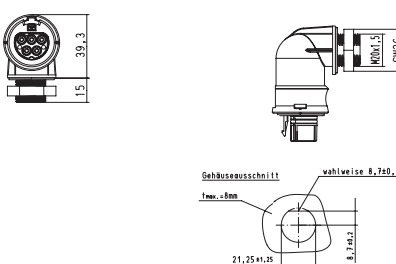


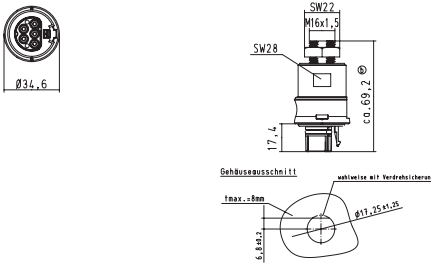
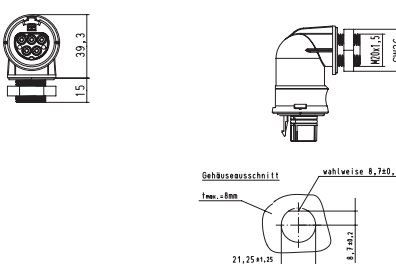


Appliance connector M25, standard

Appliance connector M20, modular, straight


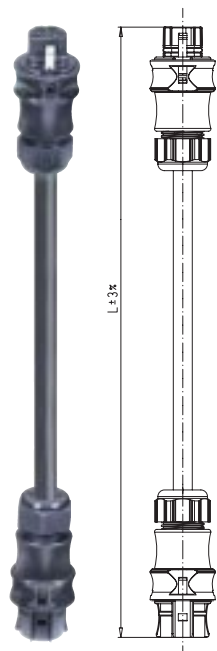
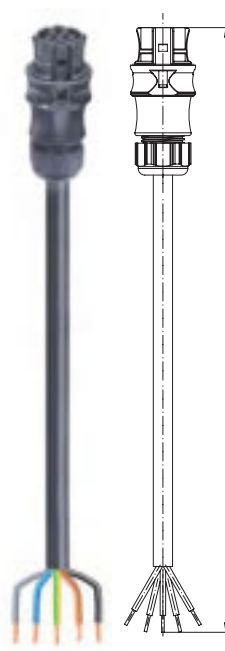
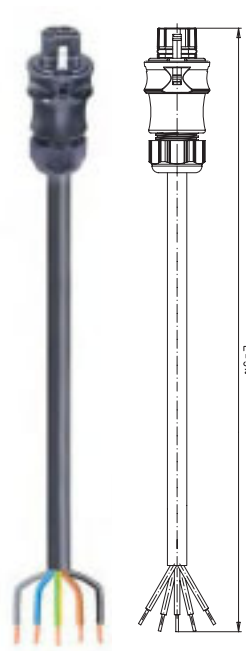




		Appliance connector M25, standard		Appliance connector M20, modular, straight	
		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, internal cable gland.</p> <p>See "Technical Data" for insulation strip lengths.</p>		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.</p> <p>See "Technical Data" for insulation strip lengths.</p>	
		<p>With crimp connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, external cable gland. Crimp contacts separately available under "Accessories"</p> <p>See "Technical Data" for insulation strip lengths.</p>		<p>With crimp connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland. Crimp contacts separately available under "Accessories"</p> <p>See "Technical Data" for insulation strip lengths.</p>	
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack
Female connector					
		 Mains 250/400 V		 Mains 250/400 V	
		 Mains 250 V + dim.		 Mains 250 V + dim.	
		 50 V, LV, bus signals		 50 V, LV, bus signals	
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack
Male connector					
		 Mains 250/400 V		 Mains 250/400 V	
		 Mains 250 V + dim.		 Mains 250 V + dim.	
		 50 V, LV, bus signals		 50 V, LV, bus signals	


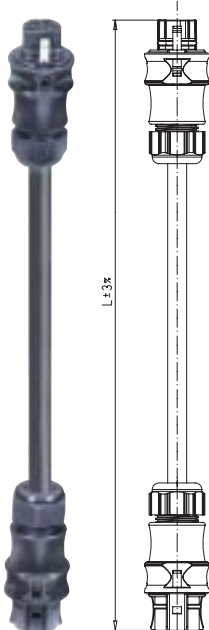
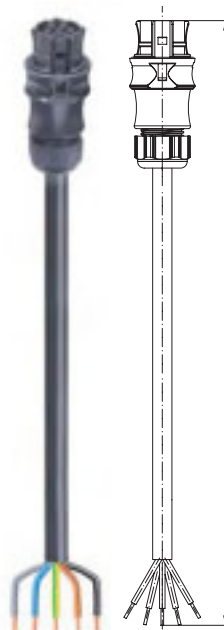
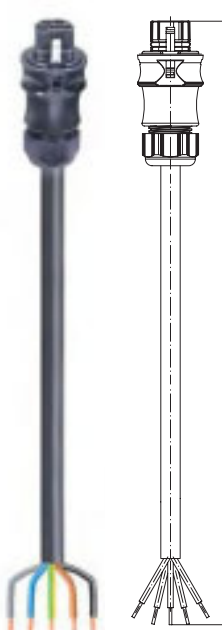






Appliance connector M16, modular, straight

Mains, 5 pole, low voltage, mains + dimming Appliance connector M20, modular, angled

		Appliance connector M16, modular, straight		Appliance connector M20, modular, angled	
		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland.</p> <p>See "Technical Data" for insulation strip lengths.</p>		<p>With crimp connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland. Crimp contacts separately available under "Accessories"</p> <p>See "Technical Data" for insulation strip lengths.</p>	
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack
Female connector					
					
					
					
Mains 250/400 V	gray/black	96.051.6153.0 96.051.6153.1		96.053.6053.0 96.053.6053.1	96.153.2053.0 96.153.2053.1
Mains 250 V + dim.	turquoise	96.051.6153.6	96.151.2153.6	96.053.6053.6	96.153.2053.6
50 V, LV, bus signals	brown	96.051.6151.4	96.151.2151.4	96.053.6051.4	96.153.2051.4
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack
Male connector					
					
					
					
Mains 250/400 V	gray/black	96.052.6153.0 96.052.6153.1	96.152.2153.0 96.152.2153.1	96.054.6053.0 96.054.6053.1	96.154.2053.0 96.154.2053.1
Mains 250 V + dim.	turquoise	96.052.6153.6	96.152.2153.6	96.054.6053.6	96.154.2053.6
50 V, LV, bus signals	brown	96.052.6151.4	96.152.2151.4	96.054.6051.4	96.154.2051.4


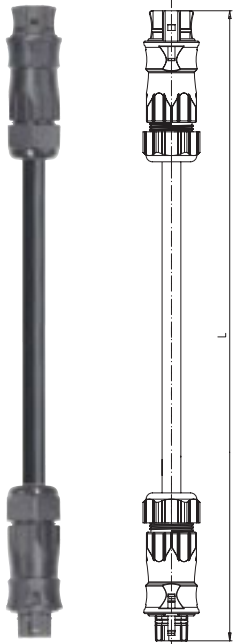
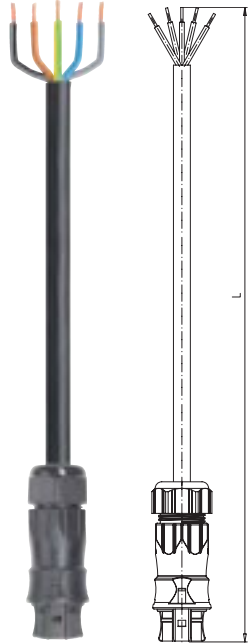
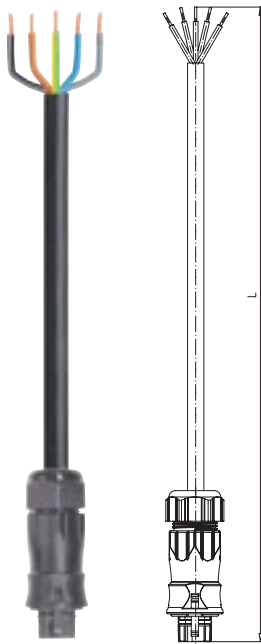






Cable assemblies, 1.5 mm²


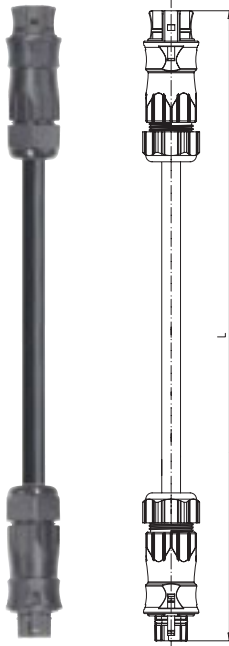
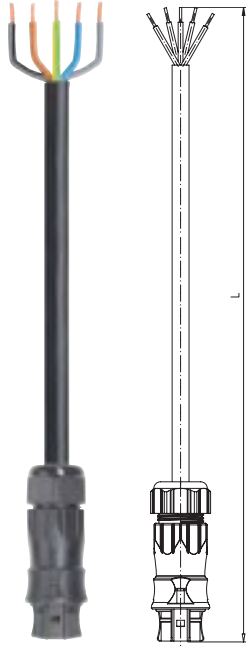
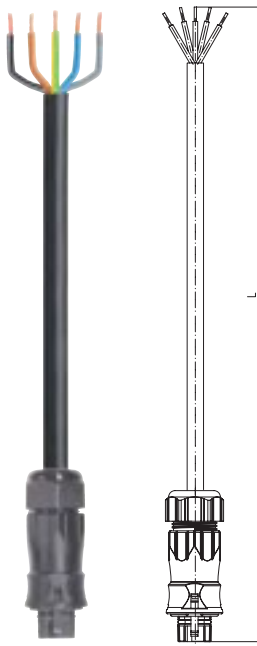






			Extension cable		Connection cable		Connection cable		
			H05VV-F 5G1,5		H05VV-F 5G1,5		H05VV-F 5G1,5		
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device		
					Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm		
<div>Pre-assembled mains cables</div> <div><div>ground = gn/yl N = bl 1 = br 2 = bk 3 = gray</div></div> <div>Cable¹⁾ in black Connector in black Screw technology</div>									
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Mains 250/400 V	3, ground, N, 2, 1 	black	1.0 m	96.452.1000.1		96.452.1003.1		96.452.1004.1	
			2.0 m	96.452.2000.1		96.452.2003.1		96.452.2004.1	
	3.0 m	96.452.3000.1		96.452.3003.1		96.452.3004.1			
	4.0 m	96.452.4000.1		96.452.4003.1		96.452.4004.1			
	5.0 m	96.452.5000.1		96.452.5003.1		96.452.5004.1			
	6.0 m	96.452.6000.1		96.452.6003.1		96.452.6004.1			
	7.0 m	96.452.7000.1		96.452.7003.1		96.452.7004.1			
	8.0 m	96.452.8000.1		96.452.8003.1		96.452.8004.1			
Mains 250 V + dimming	L, ground, N, +, - 	turquoise	1.0 m	96.452.1000.6		96.452.1003.6		96.452.1004.6	
			2.0 m	96.452.2000.6		96.452.2003.6		96.452.2004.6	
	3.0 m	96.452.3000.6		96.452.3003.6		96.452.3004.6			
	4.0 m	96.452.4000.6		96.452.4003.6		96.452.4004.6			
	5.0 m	96.452.5000.6		96.452.5003.6		96.452.5004.6			
	6.0 m	96.452.6000.6		96.452.6003.6		96.452.6004.6			
	7.0 m	96.452.7000.6		96.452.7003.6		96.452.7004.6			
	8.0 m	96.452.8000.6		96.452.8003.6		96.452.8004.6			
LV, signals, bus, 50 V	1, 2, 3, 4, 5 	brown	1.0 m	Available on request		Available on request		Available on request	
			2.0 m						
	3.0 m								
	4.0 m								
	5.0 m								
	6.0 m								
	7.0 m								
	8.0 m								
		Cable: black							

			Extension cable		Connection cable		Connection cable			
			H07RN-F 5G1,5		H07RN-F 5G1,5		H07RN-F 5G1,5			
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device			
					Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm			
Pre-assembled mains cables										
<div><p>ground = gn/y N = bl 1 = br 2 = bk 3 = gray</p><p>Cable¹⁾ in black Connector in black Screw technology</p></div>										
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	
Mains 250/400 V	3, ground, N, 2, 1	black	1.0 m	96.452.1030.1		96.452.1033.1		96.452.1034.1		
			2.0 m	96.452.2030.1		96.452.2033.1		96.452.2034.1		
			3.0 m	96.452.3030.1		96.452.3033.1		96.452.3034.1		
			4.0 m	96.452.4030.1		96.452.4033.1		96.452.4034.1		
			5.0 m	96.452.5030.1		96.452.5033.1		96.452.5034.1		
			6.0 m	96.452.6030.1		96.452.6033.1		96.452.6034.1		
			7.0 m	96.452.7030.1		96.452.7033.1		96.452.7034.1		
			8.0 m	96.452.8030.1		96.452.8033.1		96.452.8034.1		
Mains 250 V + dimming	L, ground, N, +, -	turquoise	1.0 m	96.452.1030.6		96.452.1033.6		96.452.1034.6		
			2.0 m	96.452.2030.6		96.452.2033.6		96.452.2034.6		
			3.0 m	96.452.3030.6		96.452.3033.6		96.452.3034.6		
			4.0 m	96.452.4030.6		96.452.4033.6		96.452.4034.6		
			5.0 m	96.452.5030.6		96.452.5033.6		96.452.5034.6		
			6.0 m	96.452.6030.6		96.452.6033.6		96.452.6034.6		
			7.0 m	96.452.7030.6		96.452.7033.6		96.452.7034.6		
			8.0 m	96.452.8030.6		96.452.8033.6		96.452.8034.6		
LV, signals, bus, 50 V	1, 2, 3, 4, 5	brown	1.0 m	Available on request		Available on request		Available on request		
			2.0 m							
			3.0 m							
			4.0 m							
			5.0 m							
			6.0 m							
			7.0 m							
			8.0 m							

¹⁾ Other cables available on request
²⁾ Other lengths available on request


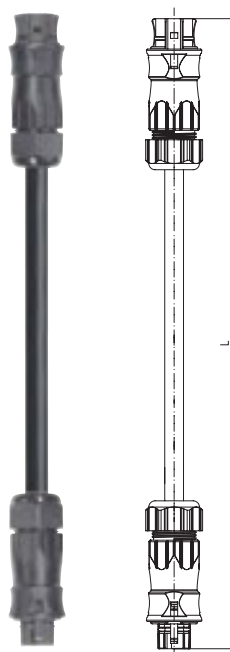
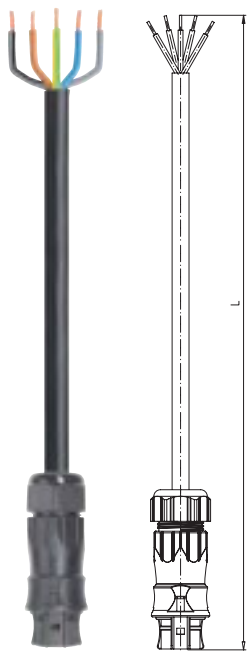
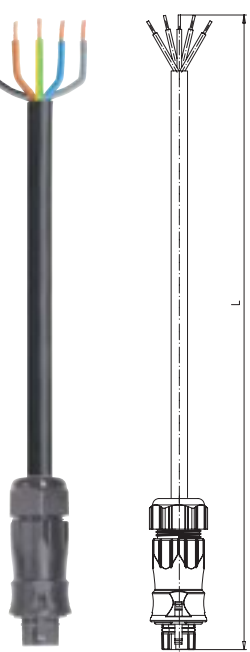






Cable assemblies, 2.5 mm²

			Extension cable		Connection cable		Connection cable			
			H05VV-F 5G2,5		H05VV-F 5G2,5		H05VV-F 5G2,5			
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device			
					Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm			
<div>Pre-assembled mains cables</div> <div><div>ground = gn/yl N = bl 1 = br 2 = bk 3 = gray</div></div> <div>Cable¹⁾ in black Connector in black Screw technology</div>										
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	
Mains 250/400 V	3, ground, N, 2, 1  Female  Male	black Cable: black	1.0 m	96.453.1000.1		96.453.1003.1		96.453.1004.1		
			2.0 m	96.453.2000.1		96.453.2003.1		96.453.2004.1		
			3.0 m	96.453.3000.1		96.453.3003.1		96.453.3004.1		
			4.0 m	96.453.4000.1		96.453.4003.1		96.453.4004.1		
			5.0 m	96.453.5000.1		96.453.5003.1		96.453.5004.1		
			6.0 m	96.453.6000.1		96.453.6003.1		96.453.6004.1		
			7.0 m	96.453.7000.1		96.453.7003.1		96.453.7004.1		
			8.0 m	96.453.8000.1		96.453.8003.1		96.453.8004.1		
Mains 250 V + dimming	L, ground, N, +, -  Female  Male	turquoise Cable: black	1.0 m	96.453.1000.6		96.453.1003.6		96.453.1004.6		
			2.0 m	96.453.2000.6		96.453.2003.6		96.453.2004.6		
			3.0 m	96.453.3000.6		96.453.3003.6		96.453.3004.6		
			4.0 m	96.453.4000.6		96.453.4003.6		96.453.4004.6		
			5.0 m	96.453.5000.6		96.453.5003.6		96.453.5004.6		
			6.0 m	96.453.6000.6		96.453.6003.6		96.453.6004.6		
			7.0 m	96.453.7000.6		96.453.7003.6		96.453.7004.6		
			8.0 m	96.453.8000.6		96.453.8003.6		96.453.8004.6		
LV, signals, bus, 50 V	1, 2, 3, 4, 5  Female  Male	brown Cable: black	1.0 m	Available on request		Available on request		Available on request		
			2.0 m							
			3.0 m							
			4.0 m							
			5.0 m							
			6.0 m							
			7.0 m							
			8.0 m							

				Extension cable		Connection cable		Connection cable	
				H07RN-F 5G2,5		H07RN-F 5G2,5		H07RN-F 5G2,5	
				Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device	
						Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm	
<div>Pre-assembled mains cables</div> <div><div>ground = gn/yl N = bl 1 = br 2 = bk 3 = gray</div></div> <div>Cable¹⁾ in black Connector in black Screw technology</div>									
Application	Coding	Color	Length ¹⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Mains 250/400 V	3, ground, N, 2, 1	black	1.0 m	96.453.1030.1		96.453.1033.1		96.453.1034.1	
	 Female	Cable: black	2.0 m	96.453.2030.1		96.453.2033.1		96.453.2034.1	
			3.0 m	96.453.3030.1		96.453.3033.1		96.453.3034.1	
			4.0 m	96.453.4030.1		96.453.4033.1		96.453.4034.1	
			5.0 m	96.453.5030.1		96.453.5033.1		96.453.5034.1	
			6.0 m	96.453.6030.1		96.453.6033.1		96.453.6034.1	
	 Male		7.0 m	96.453.7030.1		96.453.7033.1		96.453.7034.1	
			8.0 m	96.453.8030.1		96.453.8033.1		96.453.8034.1	
Mains 250 V + dimming	L, N, ground, +, -	light turquoise	1.0 m	96.453.1030.6		96.453.1033.6		96.453.1034.6	
	 Female	Cable: black	2.0 m	96.453.2030.6		96.453.2033.6		96.453.2034.6	
			3.0 m	96.453.3030.6		96.453.3033.6		96.453.3034.6	
			4.0 m	96.453.4030.6		96.453.4033.6		96.453.4034.6	
			5.0 m	96.453.5030.6		96.453.5033.6		96.453.5034.6	
			6.0 m	96.453.6030.6		96.453.6033.6		96.453.6034.6	
	 Male		7.0 m	96.453.7030.6		96.453.7033.6		96.453.7034.6	
			8.0 m	96.453.8030.6		96.453.8033.6		96.453.8034.6	
LV, signals, bus, 50 V	1, 2, 3, 4, 5	brown	1.0 m	Available on request		Available on request		Available on request	
	 Female	Cable: black	2.0 m						
			3.0 m						
			4.0 m						
			5.0 m						
			6.0 m						
	 Male		7.0 m						
			8.0 m						


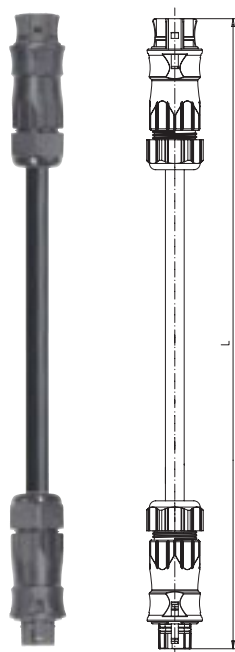
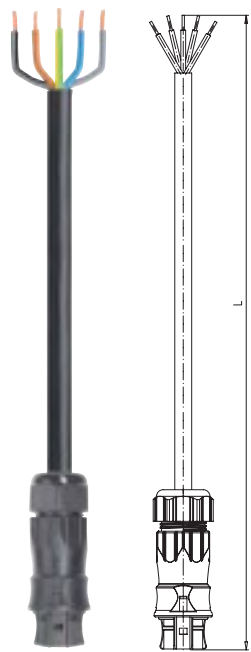
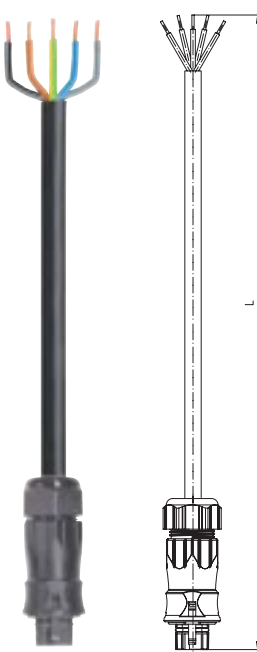



¹⁾ Other cables available on request
²⁾ Other lengths available on request

Cable assemblies, 4.0 mm²

				Extension cable		Connection cable		Connection cable	
				H05VV-F 5G4,0 Female – Male with locking device		H05VV-F 5G4,0 Female – Free end with ultrasonically welded wire ends		H05VV-F 5G4,0 Male – Free end with ultrasonically welded wire ends and locking device	
						Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm	
<div>Pre-assembled mains cables</div> <div><p>ground = gn/yl N = bl 1 = br 2 = bk 3 = gray</p><p>Cable¹⁾ in black Connector in black Screw technology</p></div>									
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Mains 250/400 V	3, ground, N, 2, 1  Female  Male	black Cable: black	1.0 m	96.454.1000.1		96.454.1003.1		96.454.1004.1	
			2.0 m	96.454.2000.1		96.454.2003.1		96.454.2004.1	
			3.0 m	96.454.3000.1		96.454.3003.1		96.454.3004.1	
			4.0 m	96.454.4000.1		96.454.4003.1		96.454.4004.1	
			5.0 m	96.454.5000.1		96.454.5003.1		96.454.5004.1	
			6.0 m	96.454.6000.1		96.454.6003.1		96.454.6004.1	
			7.0 m	96.454.7000.1		96.454.7003.1		96.454.7004.1	
			8.0 m	96.454.8000.1		96.454.8003.1		96.454.8004.1	
Mains 250 V + dimming	L, N, ground, +, -  Female  Male	turquoise Cable: black	1.0 m	96.454.1000.6		96.454.1003.6		96.454.1004.6	
			2.0 m	96.454.2000.6		96.454.2003.6		96.454.2004.6	
			3.0 m	96.454.3000.6		96.454.3003.6		96.454.3004.6	
			4.0 m	96.454.4000.6		96.454.4003.6		96.454.4004.6	
			5.0 m	96.454.5000.6		96.454.5003.6		96.454.5004.6	
			6.0 m	96.454.6000.6		96.454.6003.6		96.454.6004.6	
			7.0 m	96.454.7000.6		96.454.7003.6		96.454.7004.6	
			8.0 m	96.454.8000.6		96.454.8003.6		96.454.8004.6	
LV, signals, bus, 50 V	1, 2, 3, 4, 5  Female  Male	brown Cable: black	1.0 m	Available on request		Available on request		Available on request	
			2.0 m						
			3.0 m						
			4.0 m						
			5.0 m						
			6.0 m						
			7.0 m						
			8.0 m						




¹⁾ Other cables available on request

²⁾ Other lengths available on request

				Extension cable		Connection cable		Connection cable	
				H07RN-F 5G4,0		H07RN-F 5G4,0		H07RN-F 5G4,0	
				Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device	
						Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm	
<div>Pre-assembled mains cables</div> <div><p>ground = gn/yl N = bl 1 = br 2 = bk 3 = gray</p><p>Cable¹⁾ in black Connector in black Screw technology</p></div>									
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Mains 250/400 V	3, ground, N, 2, 1 	black	1.0 m	96.454.1030.1		96.454.1033.1		96.454.1034.1	
	Female	Cable: black	2.0 m	96.454.2030.1		96.454.2033.1		96.454.2034.1	
			3.0 m	96.454.3030.1		96.454.3033.1		96.454.3034.1	
			4.0 m	96.454.4030.1		96.454.4033.1		96.454.4034.1	
			5.0 m	96.454.5030.1		96.454.5033.1		96.454.5034.1	
			6.0 m	96.454.6030.1		96.454.6033.1		96.454.6034.1	
			7.0 m	96.454.7030.1		96.454.7033.1		96.454.7034.1	
			8.0 m	96.454.8030.1		96.454.8033.1		96.454.8034.1	
Mains 250 V + dimming	L, N, ground, +, - 	turquoise	1.0 m	96.454.1030.6		96.454.1033.6		96.454.1034.6	
	Female	Cable: black	2.0 m	96.454.2030.6		96.454.2033.6		96.454.2034.6	
			3.0 m	96.454.3030.6		96.454.3033.6		96.454.3034.6	
			4.0 m	96.454.4030.6		96.454.4033.6		96.454.4034.6	
			5.0 m	96.454.5030.6		96.454.5033.6		96.454.5034.6	
			6.0 m	96.454.6030.6		96.454.6033.6		96.454.6034.6	
			7.0 m	96.454.7030.6		96.454.7033.6		96.454.7034.6	
			8.0 m	96.454.8030.6		96.454.8033.6		96.454.8034.6	
LV, signals, bus, 50 V	1, 2, 3, 4, 5 	brown	1.0 m	Available on request		Available on request		Available on request	
	Female	Cable: black	2.0 m						
			3.0 m						
			4.0 m						
			5.0 m						
			6.0 m						
			7.0 m						
			8.0 m						

¹⁾ Other cables available on request
²⁾ Other lengths available on request

Distribution units

RST compact distributor			RST multi distributor		Distribution box
	<ul style="list-style-type: none"> – Equip as needed with M25 appliance connectors 2 to 5 pole – 1 input; 3 outputs – pre-wired with 2.5 mm² – with mounting option 		<ul style="list-style-type: none"> – Equip as needed with M25 appliance connectors 2 to 5 pole – 1 input; 7 outputs (max.) – Safety fuses 6.3 or 10 A can be integrated – pre-wired with 2.5 mm² – with mounting option 		<p>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 carried out 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.</p>
Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No. Std. Pack
					
	Forecasted for the 4rd quarter of 2006		Forecasted for the 4rd quarter of 2006		Available on request

RST 20i5

Mains, 5 pole, low voltage, mains + dimming

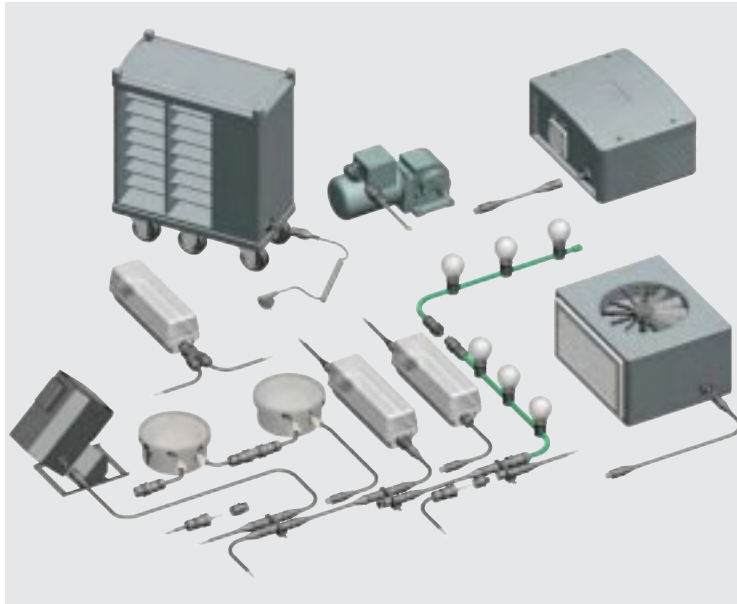
gesis[®]



RST 25i5

Single-phase supply with three-phase monitoring

Application example



General

The system is specially adapted to the requirements of solar technology.

The connectors can be loaded with 25 A on two contacts (L, N). They are used for single-phase supply with three-phase monitoring.

Special collective distributors are to bundle the electrical power of up to 6 inverters and thus completing the system.

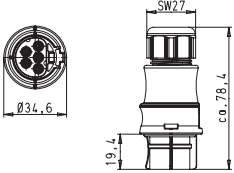

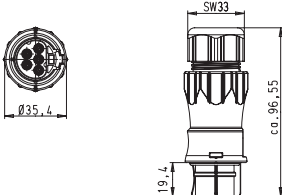

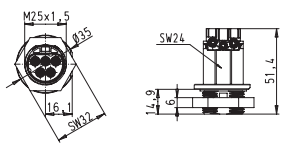


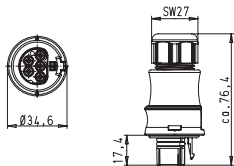

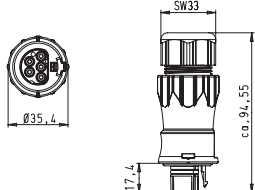

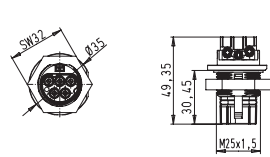


These connectors have their own mechanical coding.

This means that only associated pairs of male and female can be connected with the correct polarity. This ensures a clear separation from the connectors of the other product series.

Coding

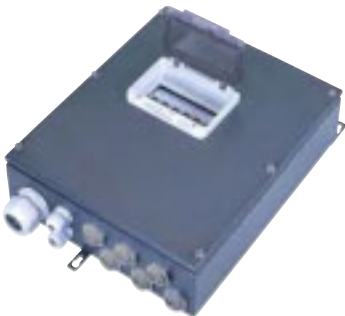


					Application
					Single-phase supply with 25 A and 3-phase monitoring
					Mechanical coding
					L, N, ground, 1, 2
					concrete gray
Name	Description	Connection style	Strain relief housing	Connection points per pole	
Connectors	1 x cable entry	Screw technology	yes	1	
Distribution units	Collective distributor RST RAN Solar				
	Collective box RST Solar				
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	
	Connection cable Female – Free end				
	Extension cable Male – Female				

Components 25 A


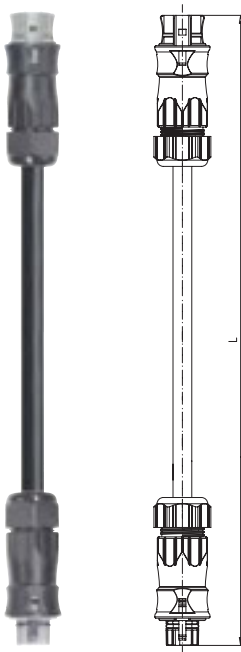
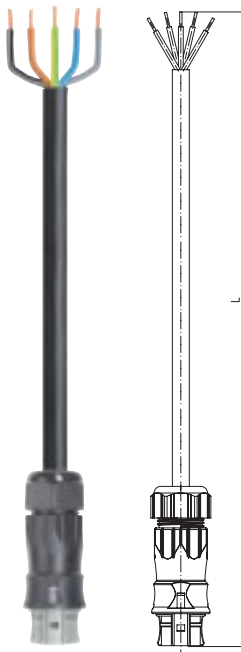
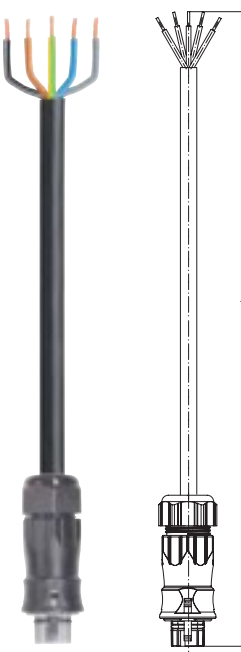


			Connectors		Connectors		M 25 appliance connectors	
			Screw technology for cables with a diameter of 10 – 14 mm . Screw technology for solid and fine-stranded wires up to 4.0 mm ²		Screw technology for cables with a diameter of 13 – 18 mm . Screw technology for solid and fine-stranded wires up to 4.0 mm ² ¹⁾		Screw technology for solid and fine-stranded wires up to 4.0 mm ²	
Application	Coding	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Female connector			 		 		 	
Single-phase supply with 25 A and three-phase monitoring	 L, N, ground, 1, 2	concrete gray/ black	96.051.4154.3		96.051.4554.3		96.051.5054.3	
Type								
Application	Coding	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Male connector			 		 		 	
Single-phase supply with 25 A and three-phase monitoring	 L, N, ground, 1, 2	concrete gray/ black	96.052.4154.3		96.052.4554.3		96.052.5054.3	
Type								
¹⁾ Larger cross sections available on request								

Collective distributor RST RAN Solar


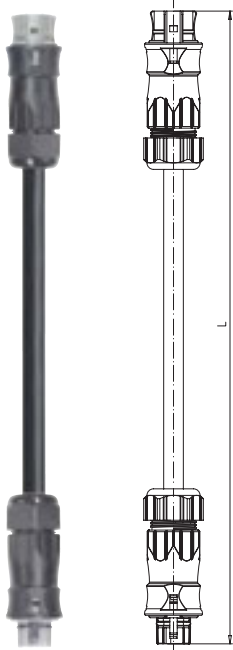
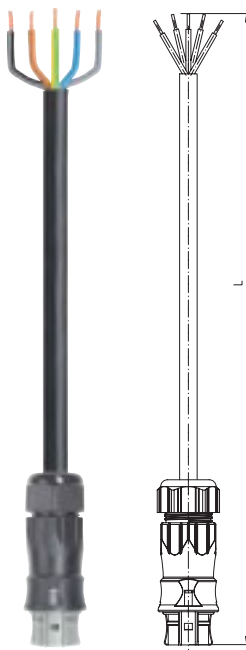
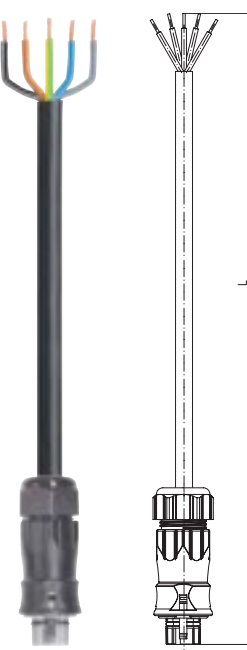


Single-phase supply with three-phase monitoring Collective distribution box RST Solar

		6 x inputs RST 25i5 / gray coding 1 x cable gland M40 2 x cable glands M20 5 x connector clamps 35 mm ² 6 x circuit breakers B25 Dimensions in mm L x W x H 350 x 300 x 100 mm	3 x inputs RST 25i5 / gray coding 1 x cable gland M32 2 x cable glands M20 5 x connector clamps 10 mm ² Dimensions in mm L x W x H 180 x 180 x 90 mm
		Part No. Std. Pack	Part No. Std. Pack
			
	Sheet metal/ powder-coated	99.527.0000.7	
	Plastic		99.528.0000.7
		Customized solutions available on request 	
		Examples: – Stainless steel (picture) – C 25 circuit breaker – with overvoltage protection – pre-assembled U-rail	

Cable assemblies, 4.0 mm²

			Extension cable		Connection cable		Connection cable			
			H05VV-F 5G4,0 ¹⁾		H05VV-F 5G4,0 ¹⁾		H05VV-F 5G4,0 ¹⁾			
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device			
					Cable strip length: 35 mm Insulation strip length: 9 mm Cable diameter H05VV-F ³⁾ : 13.0 – 16.1 mm		Cable strip length: 35 mm Insulation strip length: 9 mm Cable diameter H05VV-F ³⁾ : 13.0 – 16.1 mm			
<div>Cable assemblies</div> <div><div>ground = gn/yl N = bl 1 = br 2 = bk L = gray</div></div> <div>The cable colors have been adapted to the new European standard HD 208 S2. The assignment corresponds to international recommendations.</div>										
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	
Single-phase supply with 25 A and three-phase monitoring	L, N, ground, 1, 2  Female	concrete gray/black	1.0 m	96.854.1000.3		96.854.1003.3		96.854.1004.3		
			1.5 m	96.854.1500.3		96.854.1503.3		96.854.1504.3		
			2.0 m	96.854.2000.3		96.854.2003.3		96.854.2004.3		
			2.5 m	96.854.2500.3		96.854.2503.3		96.854.2504.3		
			3.0 m	96.854.3000.3		96.854.3003.3		96.854.3004.3		
	Cable: black	3.5 m	96.854.3500.3		96.854.3503.3		96.854.3504.3			
		4.0 m	96.854.4000.3		96.854.4003.3		96.854.4004.3			
		L, N, ground, 1, 2  Male								

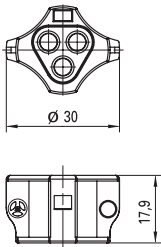
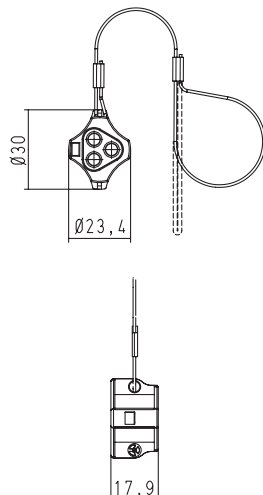
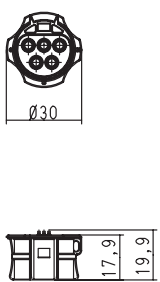
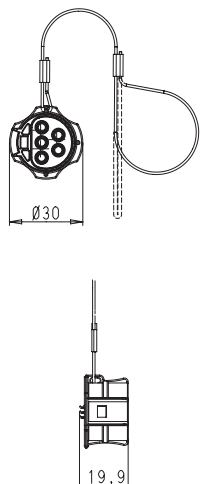

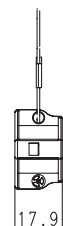


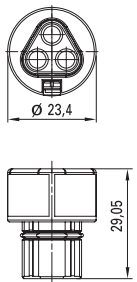
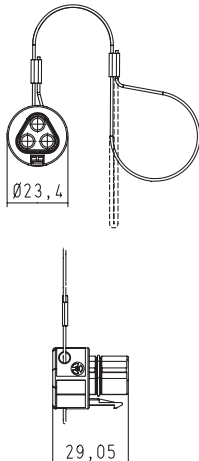
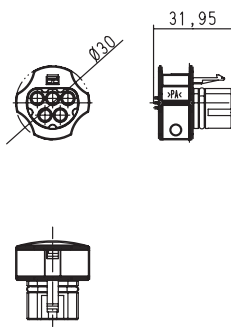
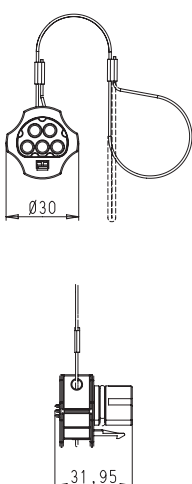



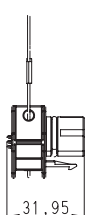
Single-phase supply with three-phase monitoring

			Extension cable		Connection cable		Connection cable		
			H07RN-F 5G4,0 ¹⁾		H07RN-F 5G4,0 ¹⁾		H07RN-F 5G4,0 ¹⁾		
			Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device		
					Cable strip length: 35 mm Insulation strip length: 9 mm Cable diameter H07RN-F ³⁾ : 15.6 – 19.9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm Cable diameter H07RN-F ³⁾ : 15.6 – 19.9 mm		
Cable assemblies									
 <p>ground = gn/yl N = bl 1 = br 2 = bk L = gray</p> <p>The cable colors have been adapted to the new European standard HD 208 S2. The assignment corresponds to international recommendations.</p>									
Application	Coding	Color	Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Single-phase supply with 25 A and three-phase monitoring	L, N, ground, 1, 2	concrete gray/black	1.0 m	96.854.1030.3		96.854.1033.3		96.854.1034.3	
			1.5 m	96.854.1530.3		96.854.1533.3		96.854.1534.3	
			2.0 m	96.854.2030.3		96.854.2033.3		96.854.2034.3	
			2.5 m	96.854.2530.3		96.854.2533.3		96.854.2534.3	
			3.0 m	96.854.3030.3		96.854.3033.3		96.854.3034.3	
	Cable: black	3.5 m	96.854.3530.3		96.854.3533.3		96.854.3534.3		
		4.0 m	96.854.4030.3		96.854.4033.3		96.854.4034.3		
		L, N, ground, 1, 2							
		Male							

Accessories

End caps, 2 to 3 pole

End caps, 4 to 5 pole

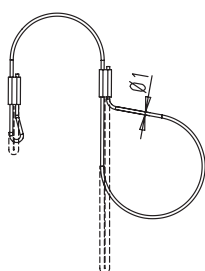
	For safely covering unused male or female connectors.		Protected against loss For safely covering unused male or female connectors.		For safely covering unused male or female connectors.		Protected against loss For safely covering unused male or female connectors.	
	Color	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack
For covering unused male connectors								
								
For covering unused female connectors	gray black concrete gray green	05.564.4453.0 05.564.4453.1	99.415.6205.2 99.416.6205.2	05.565.9953.0 05.565.9953.1	99.531.0000.7 99.532.0000.7			
	Color	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack
For covering unused female connectors								
								
gray black	Z5.564.4553.0 Z5.564.4553.1	99.413.6205.2 99.414.6205.2	Z5.565.9853.0 Z5.565.9853.1	99.529.0000.7 99.530.0000.7				

Accessories

Fastening cord

For fastening of end caps

Part No. Std. Pack

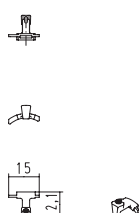


Manual disconnect*

For later installation of 2 to 5 pole connectors. Connections can easily be released by using the manual disconnect.

Also see the "Installation instructions"!

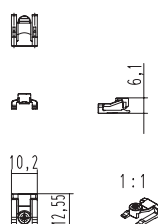
Part No. Std. Pack



For later installation of cable assemblies RST 20i2 and RST 20i3 with shrinkage tube. Connections can easily be released by using the manual disconnect.

Also see the "Installation instructions"!

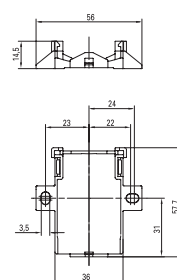
Part No. Std. Pack



Mounting plate

For splitter connectors

Part No. Std. Pack



99.000.9950.6

05.564.8653.1
05.564.8653.3
05.564.8653.7

05.565.9953.1
05.565.9953.3
05.565.9953.7

01.006.1553.1
01.006.1553.0

* Note:
Connections with manual disconnect are not approved according to VDE 0606 (fixed installations, for example in buildings). The VDE 0627 regulation will still apply nevertheless.
Also see the "Installation instructions"!

Accessories and sample kits

Crimp contacts*		Crimping tool:		Ferrules	Insertion tool
	For safely covering unused male or female connectors.	With system kit		For RST 2013 spring clamp connectors with insulating sleeve for wires of 0.5 mm ² according to DIN 46228-E0,5-10 0.75 mm ² accord. to DIN 46228-E0,75-12 1.0 mm ² accord. to DIN 46228-E1,0-12 1.5 mm ² accord. to DIN 46228-E1,5-12 Material: Sleeve: Polypropylene; temperature resistance up to 105°C, tracking resistant Tube: E-Cu, galvanically tin-plated	For termination points with spring clamp technology for ferrules 0.08 – 6 mm ² , AWG 28 – 10 • Square compression • Releasable latch • Compression adjustable Total length: 174 mm
Color	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack
Female contacts	available in the 3rd quarter of 2006	available in the 3rd quarter of 2006			
Marking (groove)					
without 0.75 – 1.0 mm ²	02.125.5521.8 100	Crimping tool 95.101.0800.0	0.5 mm² white 06.600.3827.0		
1 1.5 mm ²	02.125.5621.8 100	Crimping die B 05.502.2100.0	0.75 mm² gray 06.600.3727.0		
2 2.5 mm ²	02.125.5721.8 100	Contact positioner 05.502.3600.0	1.00 mm² red 06.600.3627.0		
3 4.0 mm ²	02.125.5821.8 100		1.50 mm² black 06.600.3927.0		
Color	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack
Male contacts	available in the 3rd quarter of 2006	Unlocking tool for crimp contacts	Screwdriver accord. to DIN 5264		
Marking (groove)			 <p>For opening the clamping body of the spring contacts for the GST 18 connector systems and DIN rail terminal blocks 0.6 x 3.5 mm blade</p>		
without 0.75 – 1.0 mm ²	05.545.0021.8 100	05.502.3500.0	06.502.4000.0		
1 1.5 mm ²	05.545.0121.8 100		for RST spring clamp connections		
2 2.5 mm ²	05.545.0221.8 100		0.4 x 2.5 mm blade		
3 4.0 mm ²	05.545.0321.8 100		06.502.4300.0		

* Available on straps or in magazines on request

Accessories

RST 20i3 sample kit

to try out

- Contents:
- Connectors
 - Device connections
 - End caps

Part No. Std. Pack



RST 20i5 sample kit

to try out

- Contents:
- Connectors
 - Device connections
 - End caps

Part No. Std. Pack



RST 20i2...i5 sample kit

Complete kit

- Contents:
- Connectors, including all codings
 - Appliance connectors
 - Cable assemblies
 - Distributor
 - End caps

Part No. Std. Pack



Sample illumination cable

Sample piece

- Contents:
- RST 20i2 connector pre-assembled with illumination cable
 - Lamp base and end piece (no lamp)

Part No. Std. Pack

99.429.0000.0

99.430.0000.0

99.431.0000.0

99.490.0000.0

Additional gaskets available on request



The illumination cable is not a standard Wieland product.

Available on request

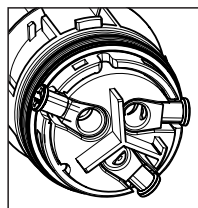
Wire preparation

RST 2/3 pole

Insulation strip lengths and ferrules

all lengths indicated in mm

Screw connection:



Screwdriver

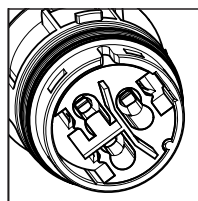
PZ1

Rated torque:

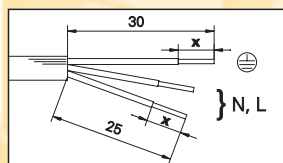
0.8 – 1.0 nm

Spring

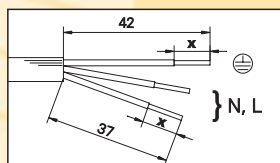
clamp connection:



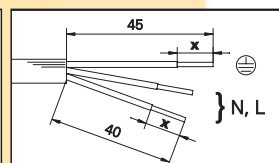
Connector
6 – 10 mm
10 – 14 mm



Connector
13 – 18 mm



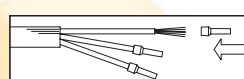
Splitter connector
max. 2 x 2.5 mm²!



Insulation strip length X =

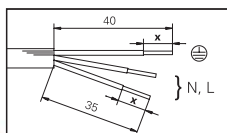
Wire range	0.75 mm²	1.0 mm²	1.5 mm²	2.5 mm²	4 mm²	AWG 12–18
solid	8	8	8	8	8	–
fine-stranded	8	8	8	8	8	–
stranded	8	8	8	8	8	8
ultrasonically compressed	8	8	8	8	8	–

Fine-stranded and stranded wires

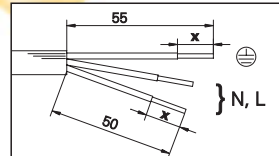


Ferrules required!

Connectors



Splitter connectors



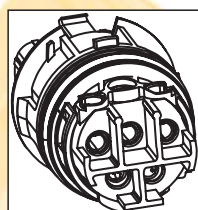
Insulation strip length X =

Wire range	0.5 mm²	0.75 mm²	1 mm²	1.5 mm²	2.5 mm²
solid	14.5 + 1	14.5 + 1	14.5 + 1	14.5 + 1	14.5 + 1
fine-stranded	12.0 + 1	13.0 + 1	13.0 + 1	13.0 + 1	
Ferrules according to DIN	46228-E0.5-10	46228-E0.75-12	46228-E1.0-12	46228-E1.5-12	
stranded		13.0 + 1	13.0 + 1	13.0 + 1	
Ferrules according to DIN		46228-E0.75-12	46228-E1.0-12	46228-E1.5-12	
ultrasonically compressed				14.5 + 1	14.5 + 1

RST 4/5 pole

all lengths indicated in mm

Screw connection:



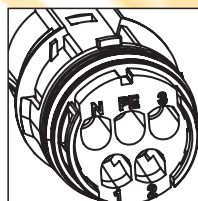
Screwdriver

PZ1

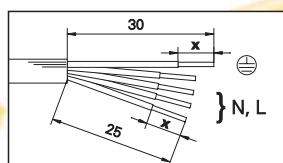
Rated torque:

0.5 – 0.7 nm

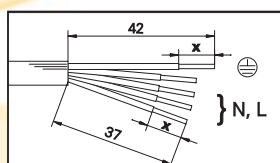
Crimp connection:



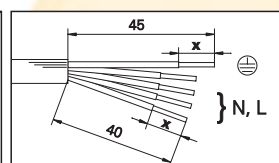
Connector
6 – 10 mm
10 – 14 mm



Connector
13 – 18 mm



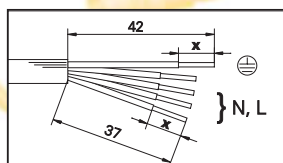
Splitter connector
max. 2 x 1.5 mm²!



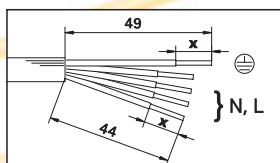
Insulation strip length X =

Wire range	0.75 mm²	1.0 mm²	1.5 mm²	2.5 mm²	4 mm²	AWG 12–18
solid	8	8	8	8	8	–
fine-stranded	8	8	8	8	8	–
stranded	8	8	8	8	8	8
ultrasonically compressed	8	8	8	8	8	–

Connector
6 – 10 mm
10 – 14 mm



Connector
13 – 18 mm



Insulation strip length X =

Conductor cross section	0.75 mm²	1.0 mm²	1.5 mm²	2.5 mm²	4 mm²
fine-stranded	7.0 + 1	7.0 + 1	7.0 + 1	7.0 + 1	7.0 + 1

IP protection degrees:

Documentation:

Example: IP 65

IP protection degree:
foreign bodies and accidental contact

	Protection against accidental contact	Protection against foreign bodies
0	No protection	No protection
1	Large parts of the body (e.g. the back of the hand)	Large foreign bodies (diameter > 50 mm)
2	Fingers	Medium-size foreign bodies (diameter > 12 mm)
3	Tools and wires (> 2.5 mm in diameter)	Small foreign bodies (diameter > 2.5 mm)
4	Tools and wires (> 1 mm in diameter)	Grain-like particles (diameter > 1 mm)
5	Complete protection against accidental contact	Dust on the surface
6	Complete protection against accidental contact	Dust ingress

IP protection degree: water

0	No protection
1	Protection from vertically falling water drops
2	Protection from diagonally (up to 15°) falling water drops
3	Protection against spraying water up to 60° to the vertical
4	Protection from splashing water
5	Protection from jet spray water
6	Protection from powerful jets of water
7	Protection from temporary immersion
8	Protection from longer lasting immersion

gesis IP+

Wieland offers an innovative installation system with a complete concept for economic installation in outdoor and industrial applications

Degree of protection achieved:

IP 65	Jet water
IP 66	Powerful jet water
IP 67	Temporary submersion
IP 68	Lasting immersion (2 hours in 3 m deep water)

In many applications, electrical devices and systems must work safely under difficult environmental conditions for many years. For a reliable function ingress of water or foreign particles (such as dust, oil, soot) into production systems, parking garages or outer premises must be avoided. Even an unplanned immersion is possible with the RST system within the scope of the specified degree of protection.

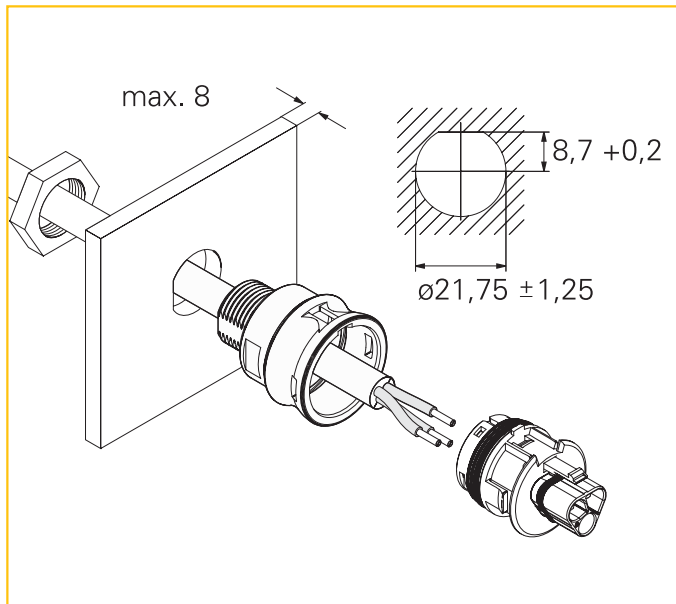
The system is not designed for permanent operation under water.

Installation instructions for RST 2/3 pole

Installation in a housing

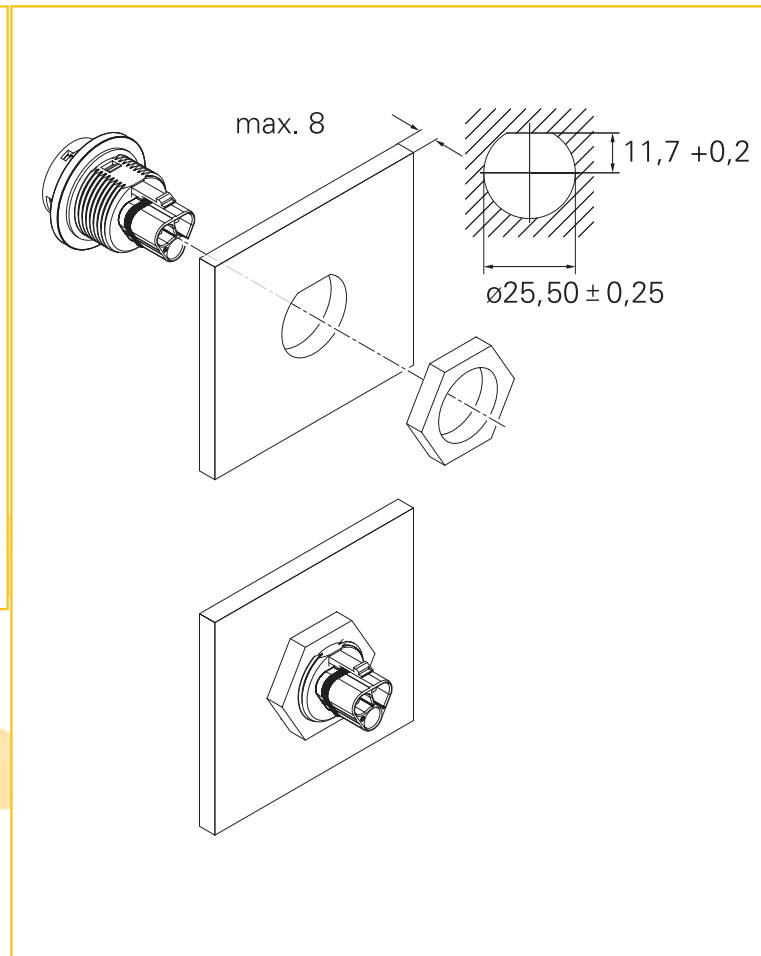
Installation of a standard system,
for M 20 feed-through

Dimensions in mm



Installation of a standard system,
for M 25 feed-through

Dimensions in mm



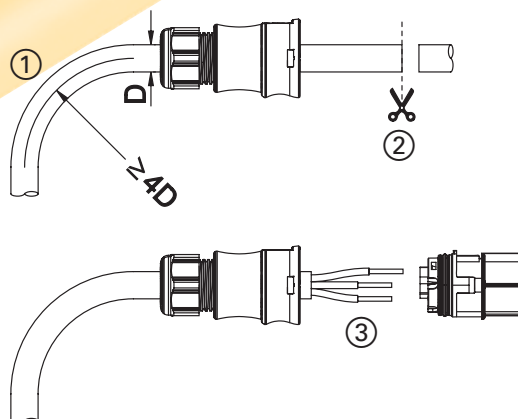
Note:

Effectiveness of the protection against twisting can only be guaranteed when the lower tolerance limit is ensured for the diameter of the hole.

Bending radius (for conductors)

Note the minimum bending radius for conductors $> 2.5 \text{ mm}^2$. Pull forces on the contact points can be avoided by proceeding as follows:

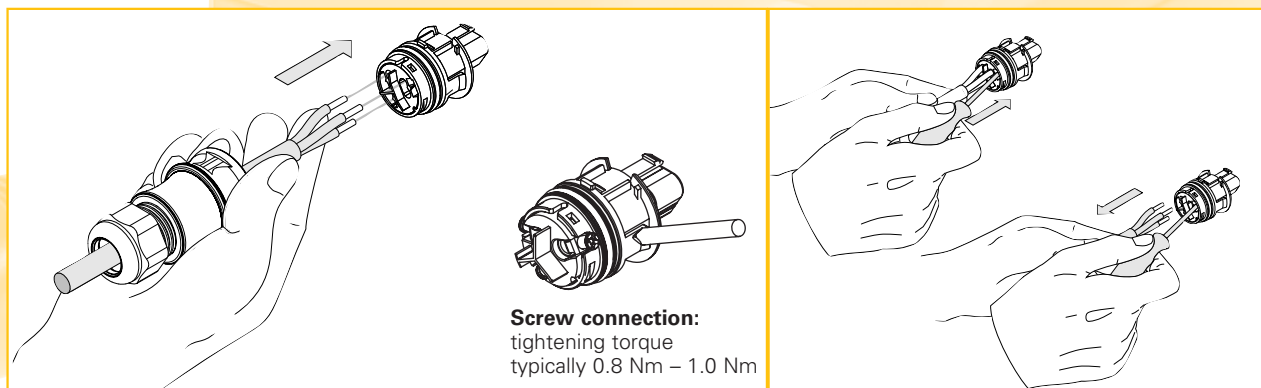
- ① Bend the wire as required
- ② Cut the wire to length
- ③ Strip the cable and wires



Installation of the connectors

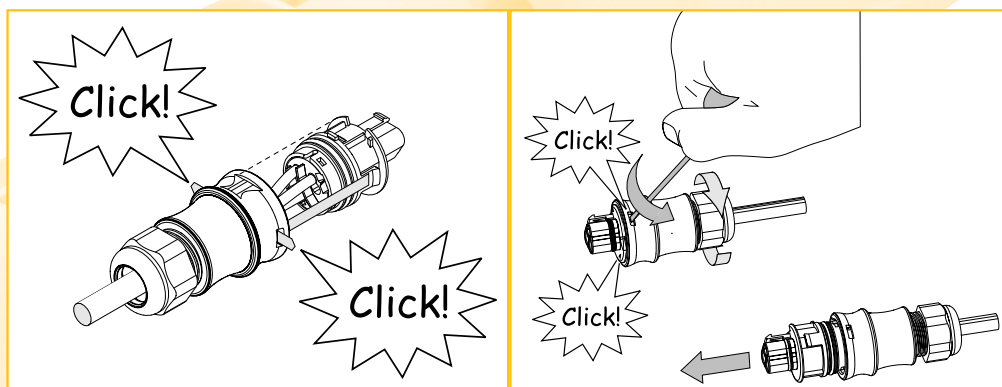
Connect the wires

...and disconnect them



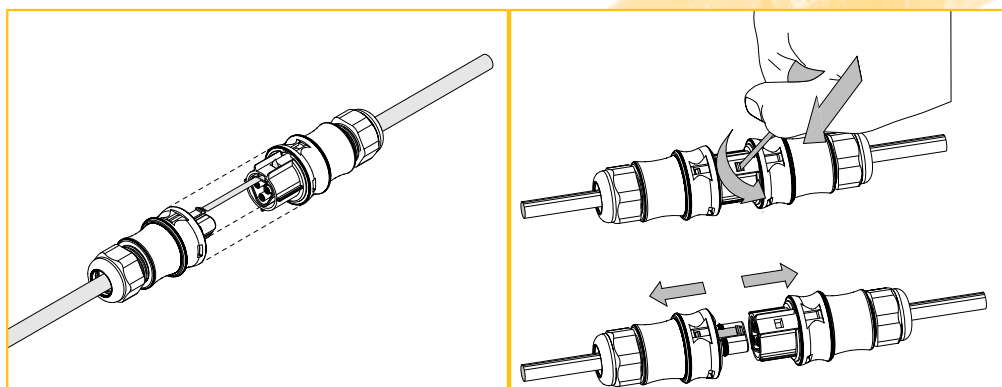
Close the connector...

...and open it



Lock the housing

...and unlock it



How to insert the (optional) manual disconnect into the connector

The manual disconnect can be used as an alternative and enables disconnecting without a tool.

* Note:
Connections with manual disconnect are not approved according to VDE 0606 (fixed installations, for example in buildings).
The VDE 0627 regulation will still apply nevertheless.
Also see the "Installation instructions"!

The descriptions on this page merely serve as an overview.
For assembly and installation only the installation instructions supplied together with the products are binding.

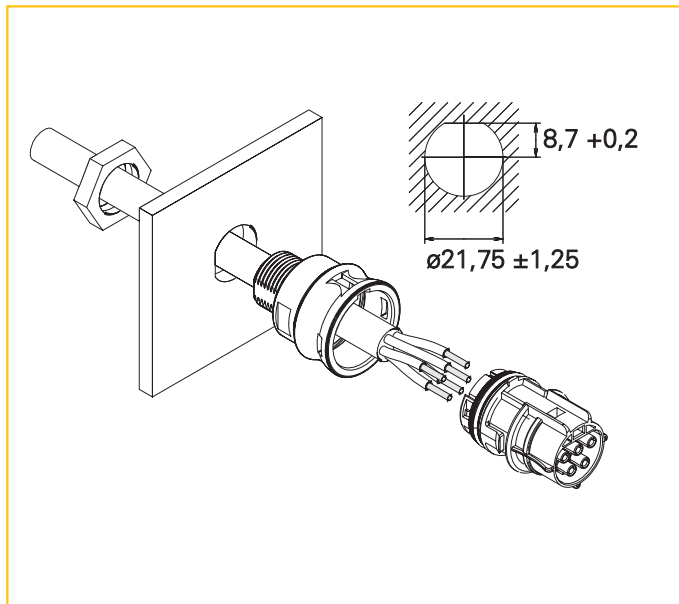


Installation instructions for RST 4/5 pole

Installation in a housing

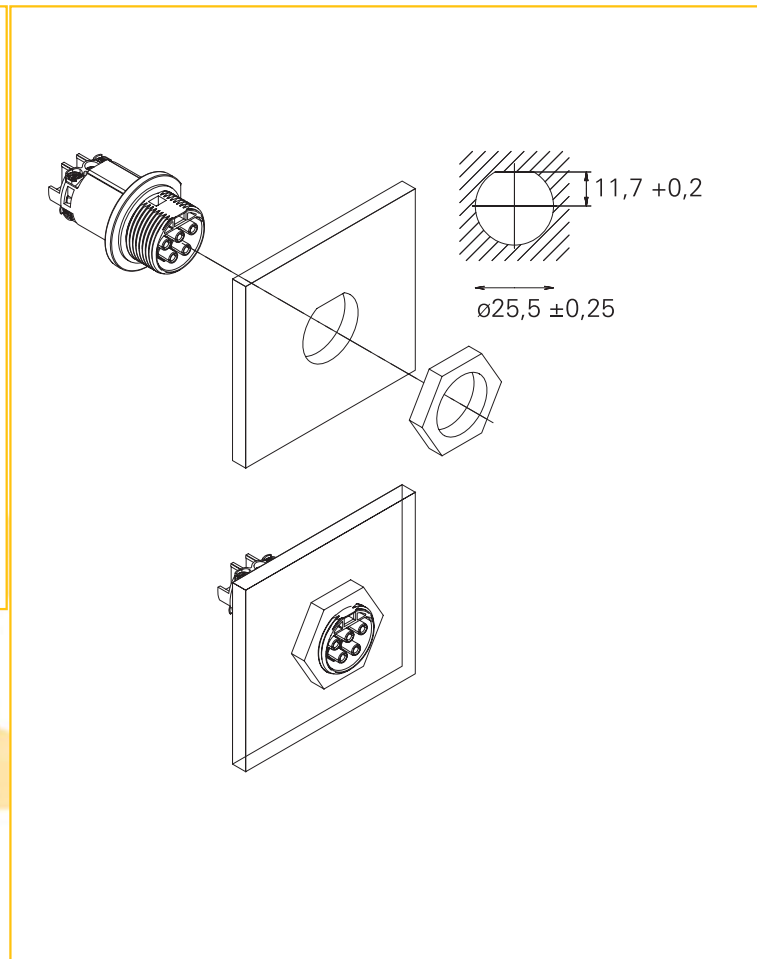
Installation of a standard system,
for M 20 feed-through

Dimensions in mm



Installation of a standard system,
for M 25 feed-through

Dimensions in mm



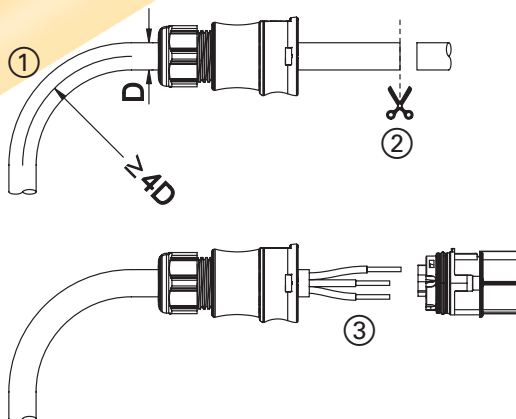
Note:

Effectiveness of the protection against twisting can only be guaranteed when the lower tolerance limit is ensured for the diameter of the hole.

Bending radius (for conductors)

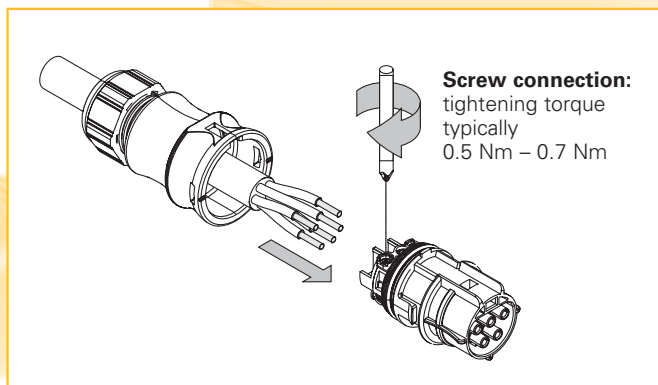
Note the minimum bending radius for conductors $> 2.5 \text{ mm}^2$. Pull forces on the contact points can be avoided by proceeding as follows:

- ① Bend the wire as required
- ② Cut the wire to length
- ③ Strip the cable and wires

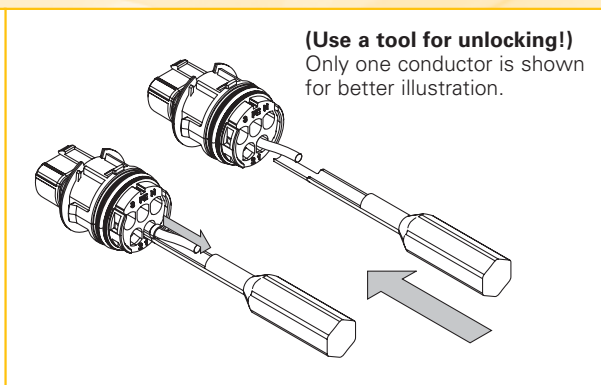


Installation of the connectors

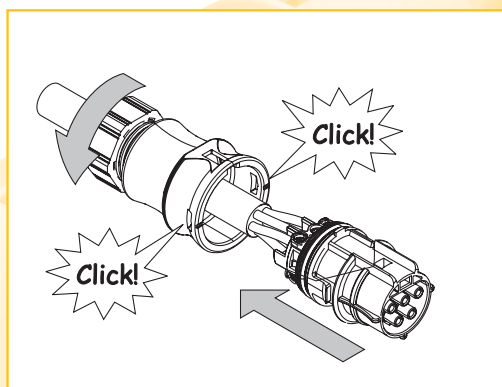
Screw connection



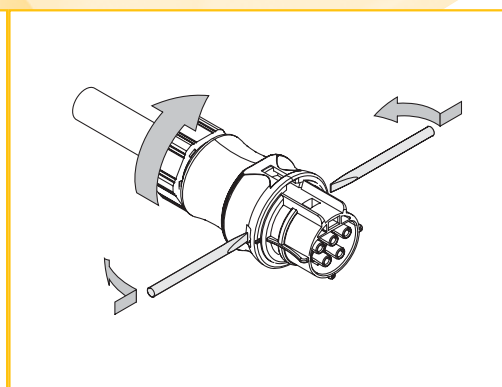
Crimp connection



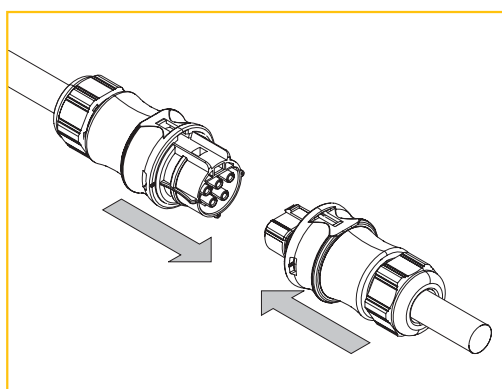
Close the connector...



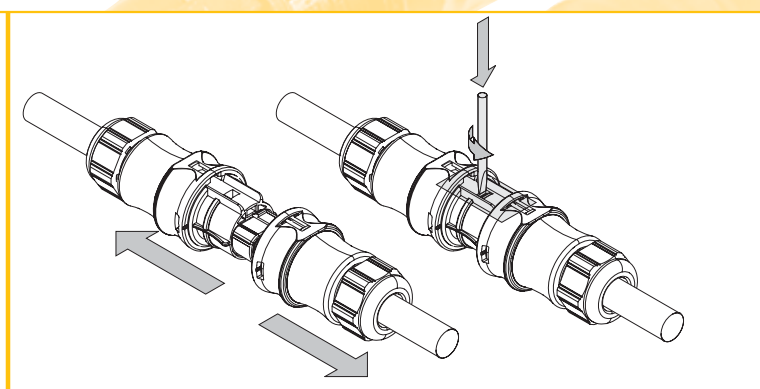
...and open it



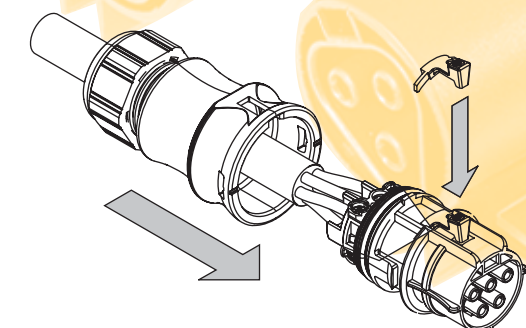
Lock the housing



...and unlock it



How to insert the (optional) manual disconnect into the connector



The manual disconnect can be used as an alternative and enables disconnecting without a tool.

* Note:
Connections with manual disconnect are not approved according to VDE 0606 (fixed installations, for example in buildings). The VDE 0627 regulation will still apply nevertheless. Also see the "Installation instructions"!

The descriptions on this page merely serve as an overview. For assembly and installation only the installation instructions supplied together with the products are binding.

Material resistance

for PA 66 (housing) and NBR (sealing)

Please contact us for applications under different conditions.			
UV light (use black-colored connectors!)	+	Motor oil (SAE 20W/55)	+
Oil and grease resistance	+	Nickel chloride	+
aliphatic carbon hydride	+	Paraffin and paraffin derivates	+
aromatic hydrocarbons	+	Phosphoric ester	+
Alcohols	+	Phthalic ester	+
Ammonia, water-free	+	Polyamide resin	+
Ammonium chloride (salmiac)	+	Polyester polyoles	+
Ammonium sulfate	+	Polyether polyoles	+
Barium chloride	+	Polyglycols	+
Beer	+	Polymeric softeners	+
Butter	+	Polyurethane resins	+
Butyl alcohol	+	Mercury	+
Calcium chloride, aqueous solution, 10%	+	Castor oil	+
Citric acid, hydrous solution, 10%	+	Salmiac	+
Ferric sulfide	+	Oxygen, RT	+
Ethyl ether	+	Lubricating oil (O-149), (not bunker fuel, oil tanker)	+
Paint, varnish, not much sulfuric acid	+	Sulfur, wet	+
Fruit juice, fruit acid	+	Sulfuric acid (dilluted, RT)	+
Tannic acid	+	Sulfur hexafluoride	+
Glycerin	+	Sweat	+
Glysantine, hydrous solution, 10%	+	Sebacic acid ester	+
Potassium chloride	+	Spirits	+
Caustic potash solution, hydrous solution, 10%	+	Nitric acid (10%)	+
Sodium, hydrous solution, 10%	+	Hydrochloric acid (10%)	+
Linseed oil	+	Water, RT, free from chlorine up to 80°	+
Milk	+	Water: sea water resistance, artificial, 20°C	+
Lactic acid, 20°C	+	Stannic chloride, 20°C, saturated	+

RST long-term studies:

In addition to the tests required by the standard, a continuous test was performed over 14 months. During this time the connectors were exposed to direct sunlight, frost and occasional flooding. For this purpose the RST components were installed in an eaves gutter and monitored by a 30 mA circuit breaker with the mains voltage applied. The following tests were performed in addition to the continuous test:

- Temperature change test (– 40° C to + 60° C)
- Installation of the connector at – 40° C

The complete test report can be ordered from our hotline using the phone number +49 9 51/93 24-9 96.



Technical data

	RST 20i2/i3	RST 25i3	RST 20i4/i5	RST 25i5
Rated voltage	250 V	250 V	250 / 400 V	250 / 400 V
Rated current	20 A	25 A	20 A	25 A (L, N) 1 ~ Contacts (1, 2) 10 A
Number of poles	2 or 3 pole	3 pole	4 or 5 pole	5 pole
Ambient operating temperature under full load	Connectors 55° C Distributor 40° C	55° C	55° C	55° C

Temperature range: -40° C to +100° C

Material: Contact parts: brass, surface-plated
Housing parts: thermoplastic material PA 66, halogen-free, V2
Sealing material: NBR

Regulations: DIN VDE 0606 T200, DIN EN 61984 (VDE 0627), VDE 0110
IEC 60999: UL 2238; CSA: C22.2 No.182.2-M1987;
LR Type Approval System

Approvals: pending
VDE; UL; CSA; LR; GL; DNV

Degree of protection: IP 65, IP 66, IP 67 and IP 68
(3 m; 2 hours)

Glow-wire test 850° C, 30 s: For connectors, distribution units, cable assemblies and appliance couplers

Coding: Mechanical coding symbolized by color code.
Gray and black with the same mechanical coding.
Other codings are optional.

Note: Protection against shock generally guaranteed even when disconnected.
Protective conductor leading. Connection to the live cable must be with a female connector according to the regulations. It is therefore not possible to have a ring circuit arrangement.
Only pluggable in the correct pole configuration; 1 pole cannot be connected.
Contacts protected against strain on the cable. All components can be interlocked.
DIN VDE 0606-200 requires the use of a locking device. Dangerous mismatching with installation connector systems of other suppliers is not automatically excluded by compliance with DIN VDE 0606 T200.
Installation connectors do not replace national connector/outlet systems for home applications.

Derating curves

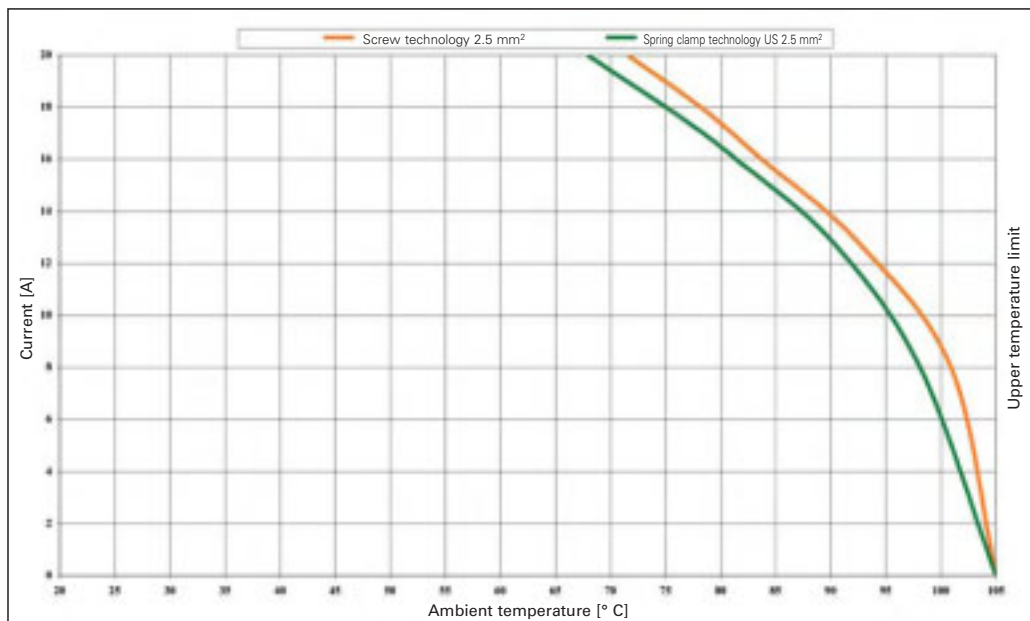
Derating curve according to IEC 60512 sect. 3

RST 20i3

Current through 2 poles (L, N)

Connectors with screw technology: cross section 2.5 mm² with

spring clamp connection: cross section 2.5 mm²

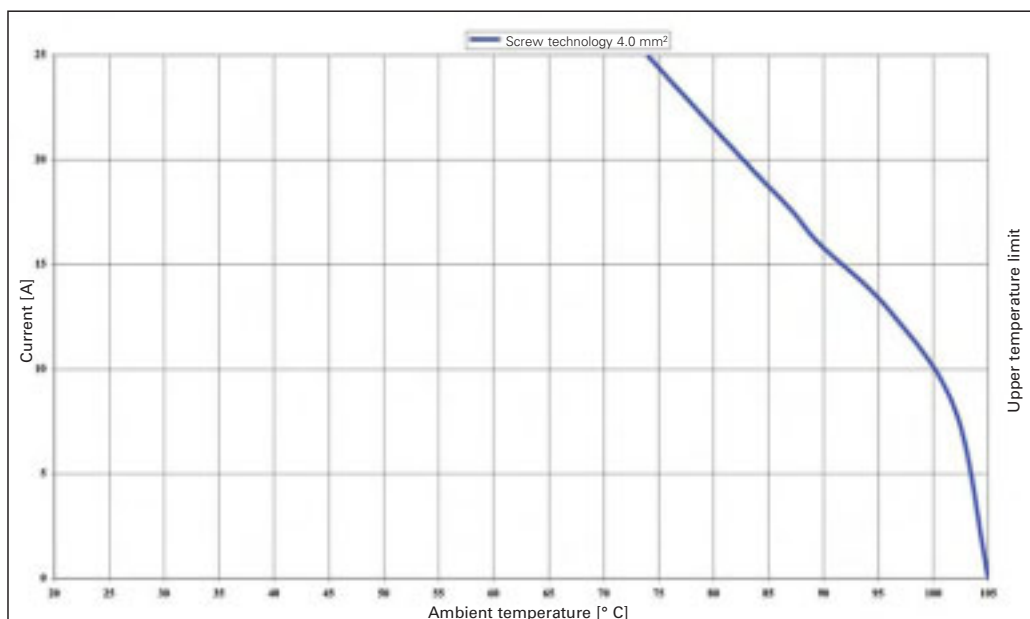


Derating curve according to IEC 60512 sect. 3

RST 25i3

Current through 2 poles (L, N)

Connectors with screw technology: cross section 4.0 mm²

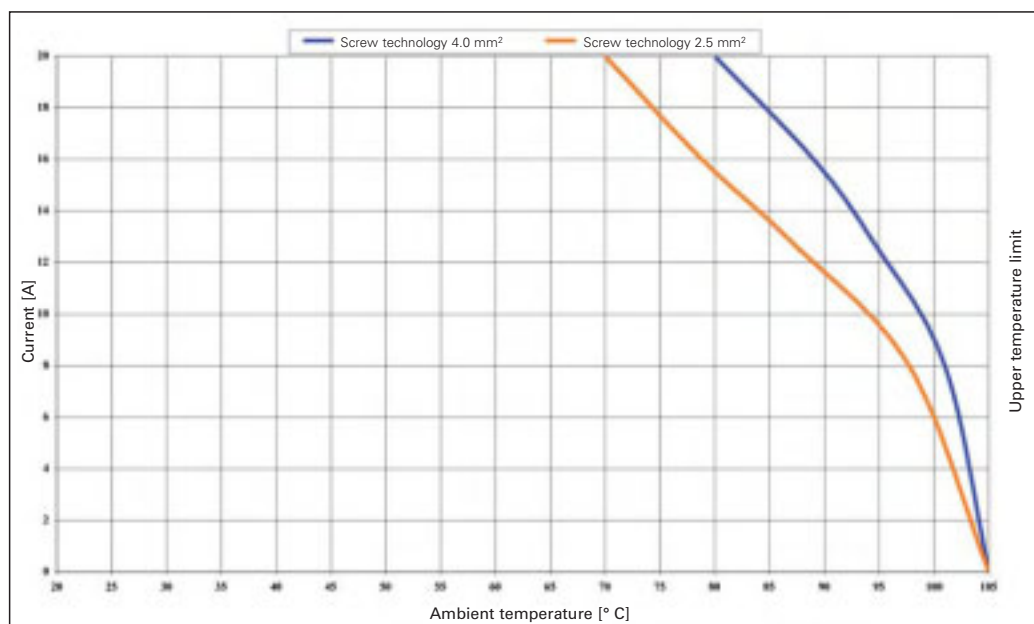


Derating curve according to IEC 60512 sect. 3

RST 20i5

Current through 4 poles (L1, L2, L3, N)

Connectors with screw technology
cross section 4.0 mm² and 2.5 mm²

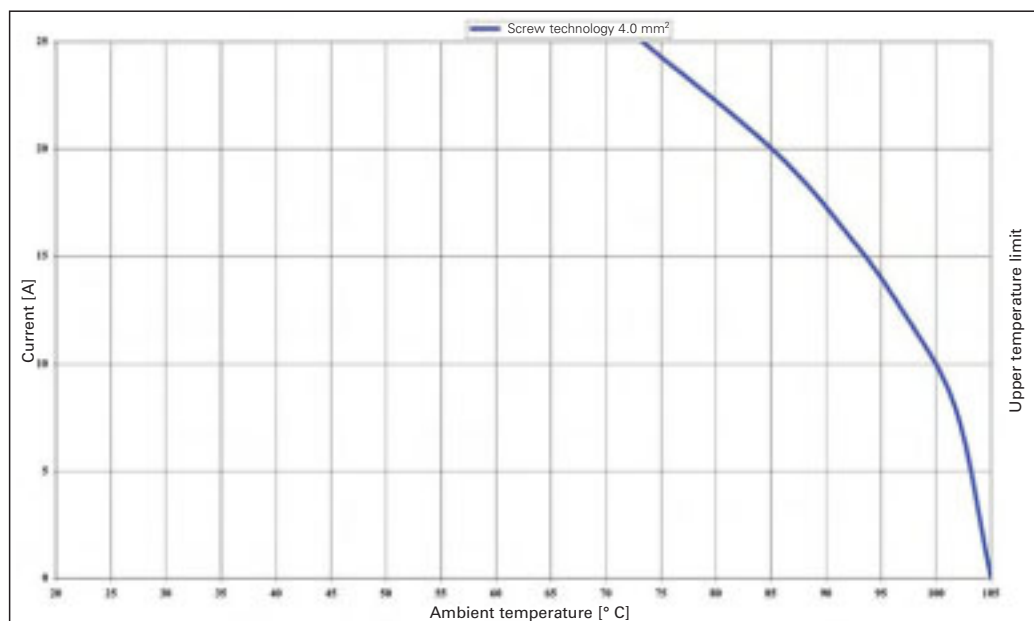


Derating curve according to IEC 60512 sect. 3

RST 25i5

Current through 2 poles (L, N)

Connectors with screw technology: cross section 4.0 mm²



Product finder

On the web pages users easily find the application of **gesis** in its complete diversity, broken down into logical sections.

There the suitable **gesis** components can be found and ordered in no time while being assured that they are compatible with the **gesis** system. Mismatching is excluded due to clear coding.

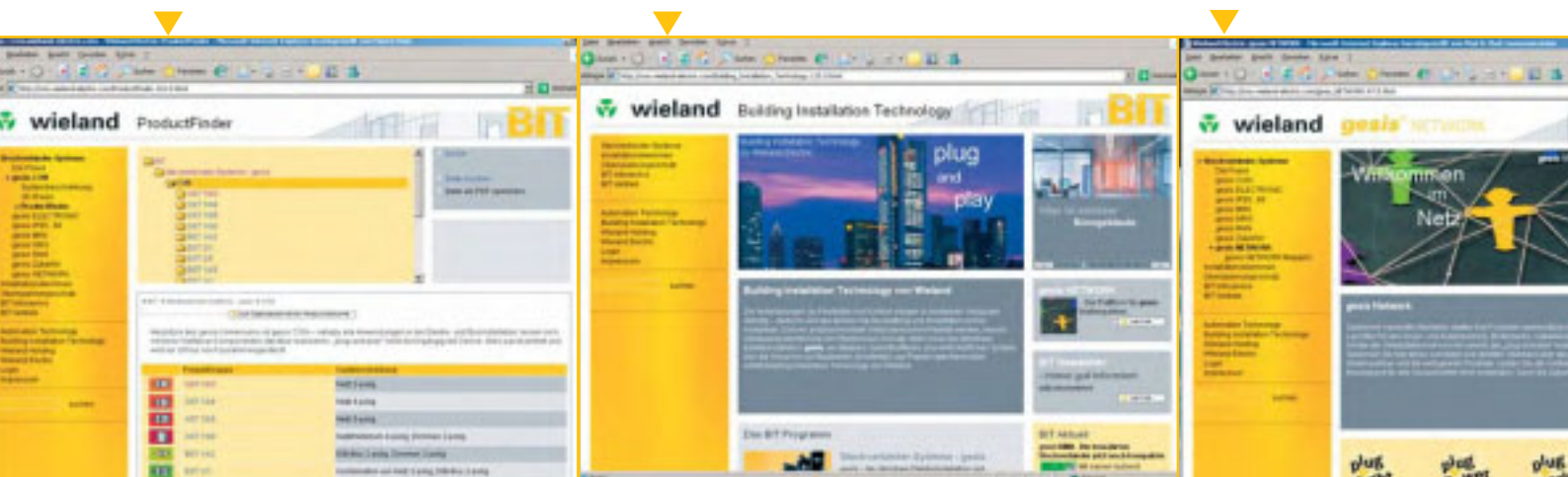
Electronics – modular and flat

In the ELECTRONICS section we have combined all EIB-controlled modules as well as the device series that can be controlled via radio and Ethernet.

All electronic connections of the **gesis** Electronics series provide a pluggable design. These modules combine all the benefits of the various control units with the benefits of a pluggable electrical installation system.

gesis NETWORK

gesis NETWORK is a group of system partners whose products are equipped with the pluggable electrical installation system **gesis**. Whether manufacturers of lamps, floor boxes or furniture – in numerous industries, the pluggable electrical installation system has already become a typical component and, for many products, **gesis** is already the standard today. For a quick and direct overview of the products equipped with **gesis**, a group of partners



Plan your outside and inside applications with **gesis**.

On our web pages you can find complete solutions for the different functions and control units of your planned system.

was founded whose common information platform is available on the Internet.

Easily accessible under:

www.gesis-network.com.

www.gesis-network.com combines the appropriate information about **gesis**. Here you can find a 3-D diagram of a lamp installation, among other things. It shows detailed views of possible **gesis** components during installation, presents sample applications and leads directly to the

relevant "**gesis** NETWORK member". By means of a search function within the partner list, the correct partner for each task can be determined. Different parameters such as "Application" or "Country" make the search more precise.

gesis NETWORK offers high transparency for the market of all products equipped with **gesis**. With a mouse click, planners, architects or electrical installers can find all the products and data required for the installation concept. In addition, **gesis**

NETWORK is a presentation forum that provides excellent publicity value for the products of various system partners, as it shows their own logo and has a link to their own website. The manufacturers of **gesis** compatible solutions present themselves to completely new opportunities.

gesis NETWORK starts with the goal of providing a market overview of all products equipped with **gesis**. In order to facilitate the navigation, the categories plug+light, plug+power and plug+work were developed.

25 YEARS gesis

Willkommen im Netz.

Nutzen Sie das gesis® NETWORK – jetzt auch im Internet.

Stellen Sie sich vor, Sie hätten steckbare Schalter, Steckdosen oder Leuchten. Alle vorgefertigt mit einem Anschluss für **gesis®** – der steckbaren Elektroinstallation von Wieland Electric. Kein Verdrahten, nur noch stecken.

Eine Wunschvorstellung?

Nein, bereits Realität! Im **gesis®** NETWORK finden Sie zahlreiche Produkte namhafter Leuchten- und Komponentenhersteller aus ganz Europa. Alle mit passendem Anschluss – fertig für Ihr ganz eigenes **gesis®**-Netzwerk. Schauen Sie doch gleich mal rein.

www.gesis-NETWORK.com

wieland
Elektrische Verbindungen

www.wieland-electric.com

Wieland Electric GmbH • Brennerstraße 10-14 • D-96052 Bamberg • Telefon (0951) 9324-0 • Fax (0951) 9324-198

Reihenketten
PCB-Klemmen
Elektronik-Komponenten
Feldbustechnologie
Steckbare Elektroinstallation
Industrie-Steckverbinder

Ackermann
Andromeda
Ansong-Belux
Aetio
Beggelli-Eplast
Cohausz
DEXTRA
DL-SYSTEM
ELGO
ELKOVO
era
ETAP
Fagerhult
FRITZGERALD LIGHTING
GERA-LEUCHTEN
Geros Lichttechnologie
Hoffmeister Leuchten
Hofphane
Hilite
P.L.A. Imperial
INGE OPANA
Istar
König+Neurath
Lannager
Licht-Design
LightPartner
LITE-LIGHT
LITEC
A. & H. MEYER
MODUS
NIEDAX
OMS
Philips Lighting
Polam-Reim
Popp
Profile Lighting
RIDI Leuchten
RUCO LIGHT
Alfred Rudolph
RZB
SCHWIEBER ELECTRIC
Schuch
SETSQUARE
Sitco
SPITTLER
STAND-LUX
Theben
Trevos
Tuma Jiri
WILA Leuchten