gesis® IP+

wieland

gesis® IP+
Pluggable Electrical Installation IP65 to IP68

Catalog 2011

▲ Sales and Marketing Center in Bamberg

▲ Photo of the Bamberg headquarters

▲ STOCKO headquarters in Wuppertal

wieland group

automation

building

electronics

ACTIVE WORLDWIDE

With its staff of almost 2,200 employees, the Wieland Group is at home on all continents. Subsidiaries in Great Britain, France, Spain, Italy, Poland, Canada, the USA, China, and Denmark speak for themselves. With a great number of representatives, 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.

One company group, a thousand opportunities

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

Together they cover an extraordinarily wide product portfolio in the field of electrical engineering and electronics. It comprises control cabinet engineering and industrial multipole connectors, as well as overvoltage technology and building system technology.

outdoor

The idea of pluggable installation

As easy as brilliant

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

Luminaire installation:

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

The *gesis* installation philosophy:

The idea is as easy as it is brilliant.

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

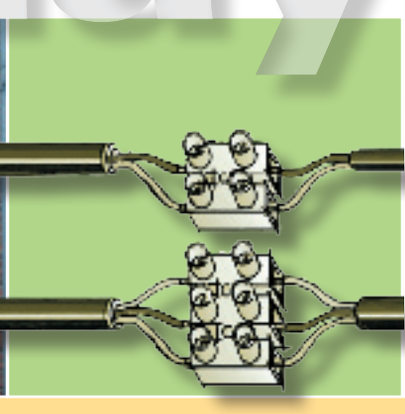
This saves time and reduces costs!

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.

yesterday



Pluggable installation from Wieland

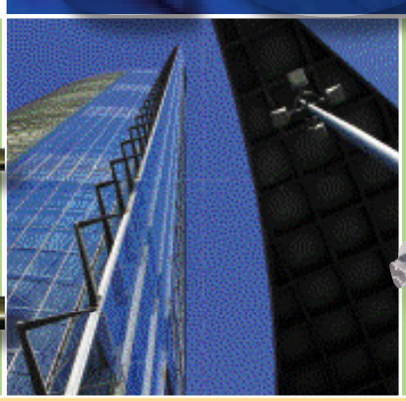
Additional advantages:

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

Work steps:

- Attach the luminaire
- plug & play

today



Electrical installation with a system
A concept for all situations

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

1 **Connector (female + male) for the supply into the connector system**

– interface between conventional and pluggable installation

INCOMING SUPPLY

2 **Distribution blocks for power or signal distribution within the network**

DISTRIBUTION

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

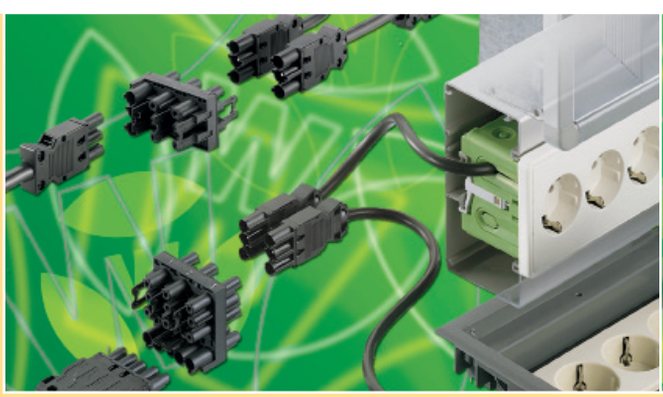
ROUTING

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

DEVICE CONNECTION

indoor

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



gesis IP+

IP 65 ... IP 68

Unique to the market thus far, Wieland transferred its successful *gesis* installation philosophy to new outdoor applications and with it set new standards.

INCOMING SUPPLY

DISTRIBUTION

ROUTING

DEVICE CONNECTION

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)

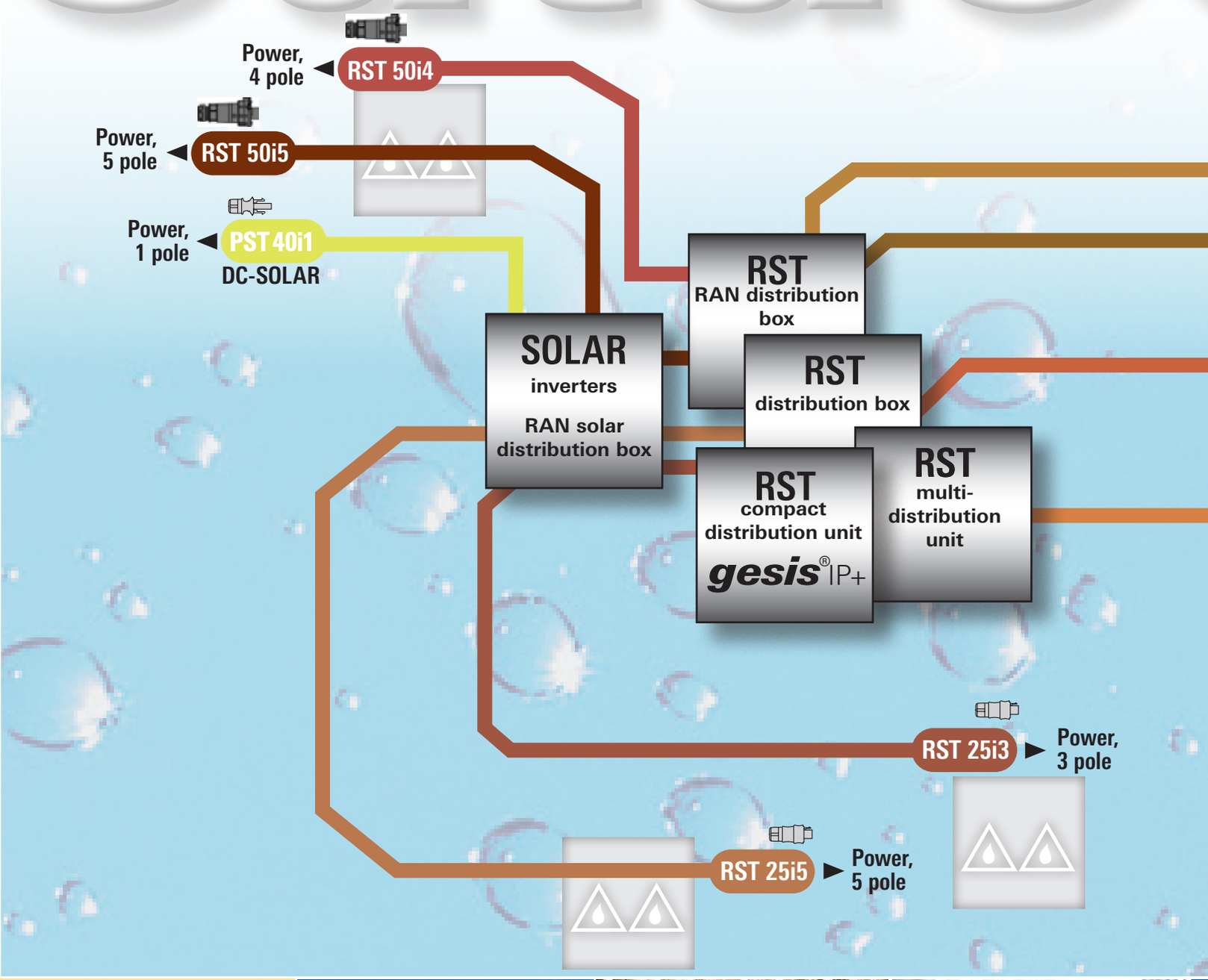
outdoor

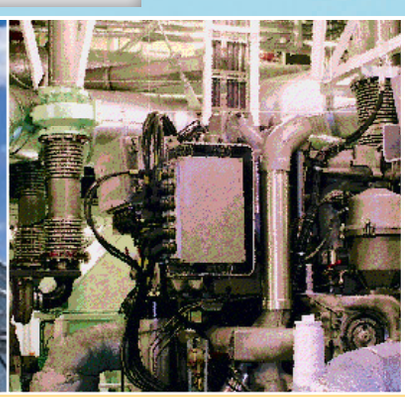
... in areas with increased protection requirements

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, and soot) into production systems, parking garages or outer premises must be avoided. Within the scope of the specified degree of protection the RST system even withstands unplanned immersion.

The system is not designed for permanent operation under water.

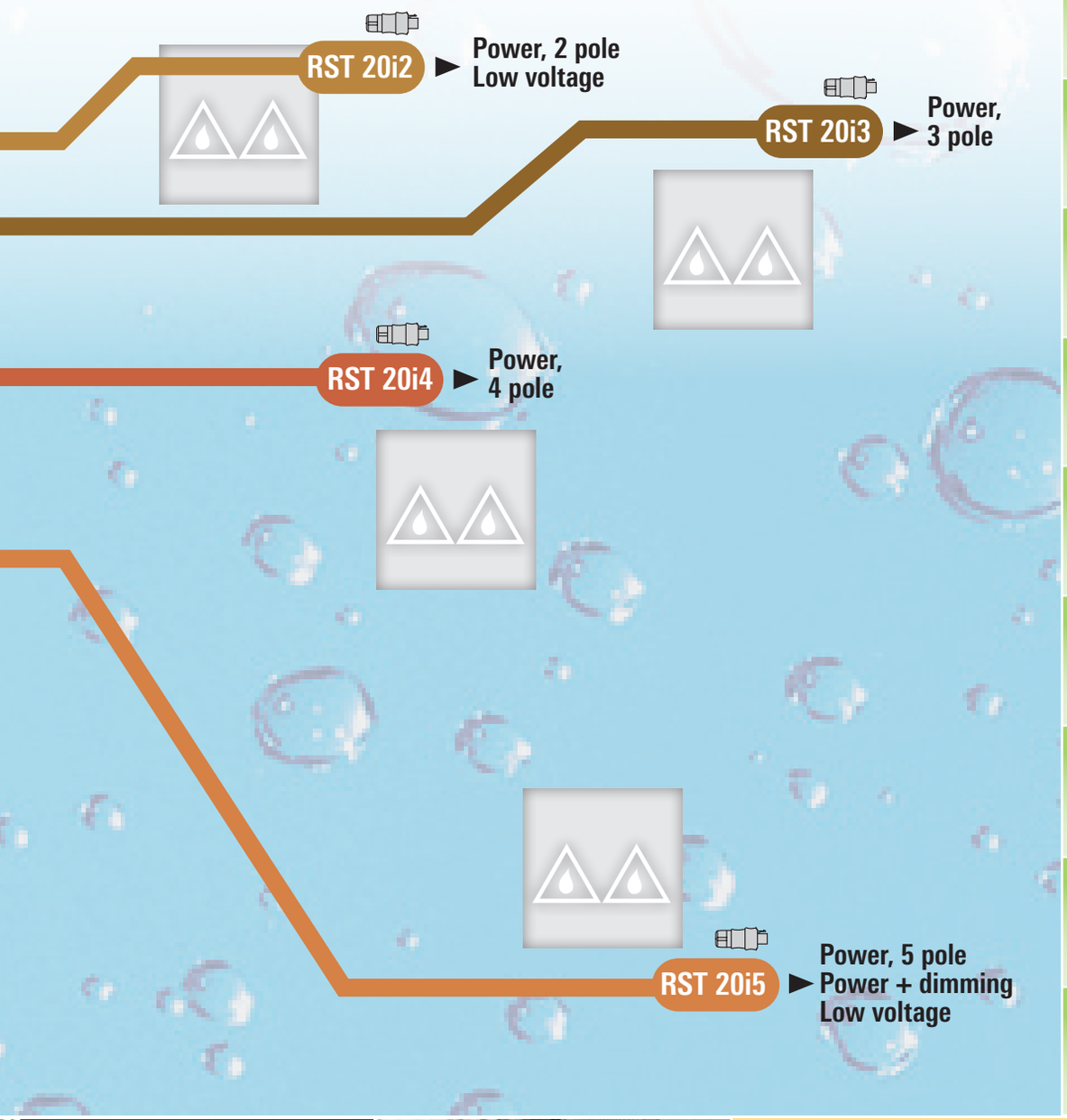
outdoo


Power,
4 pole
RST 50i4
Power,
5 pole
RST 50i5
Power,
1 pole
PST 40i1
DC-SOLAR
SOLAR
inverters
RAN solar
distribution box
RST
RAN distribution
box
RST
distribution box
RST
compact
distribution unit
gesis® IP+
RST
multi-
distribution
unit
RST 25i3
Power,
3 pole
RST 25i5
Power,
5 pole



Schedule for pluggable connections

In rough environments with high protection requirements



RST 20i2	Power, 2 pole Low voltage
RST 20i3	Power, 3 pole
RST 25i3	Power, 3 pole
RST 20i4	Power, 4 pole
RST 20i5	Power, 5 pole Power +dimming Low voltage
RST 25i5	Power, 5 pole
RST 50i4	Power, 4 pole
RST 50i5	Power, 5 pole
PST 40i1	Power, 1 pole DC-SOLAR

PST ►

PST 40i1
DC-SOLAR

see Master Catalog
SOLAR 0164.0
or Short-Guide 0162.3

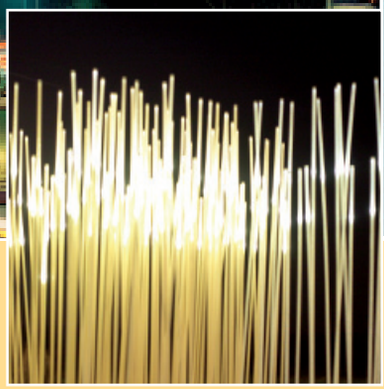
Overview of the fields of application

Power everywhere – safe and quick!

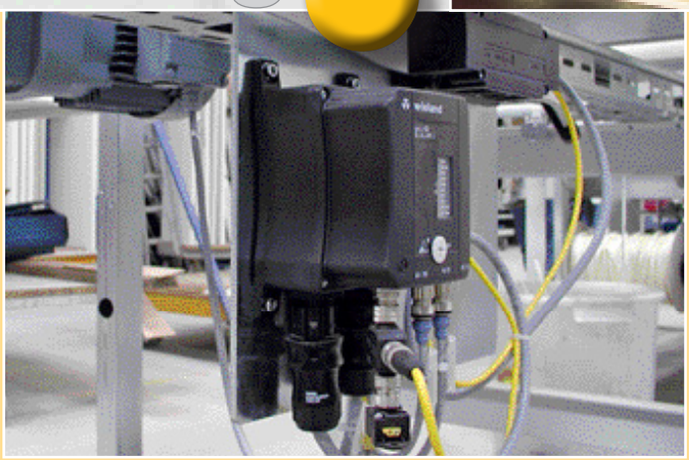
Power connection for electrical devices

Construction power systems

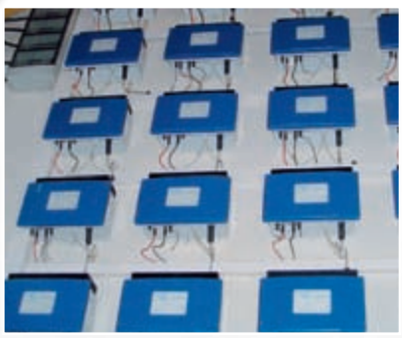
Outdoor lighting



System engineering



Solar technology



Event technology

Project and shipbuilding

Export-oriented solutions for all nations

International operations with RST connectors

Power connection for electrical devices

■ The challenge:

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

■ The solution:

Power connections are made pluggable: one end is pre-assembled with the appropriate national power connector, while the other end always has the same RST connector. Consequentially, the relevant end devices are equipped with RST device connectors, independently of the country. Thus country-specific power connections are available to you. The connection set required for the target country is attached only. This simplifies stockkeeping for export-oriented products particularly.

■ RST power connectors:

The cables are pre-assembled with the desired power connector*) on grid 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

Device connectors

M20 0°

M16 0°

M16 7°

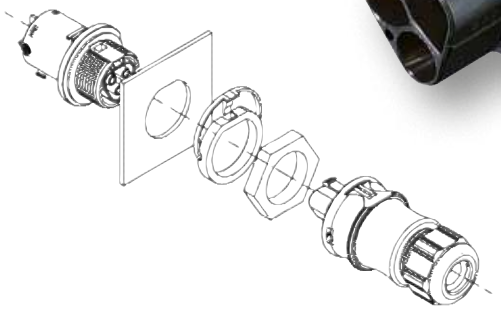
M20 90°

M25 90°

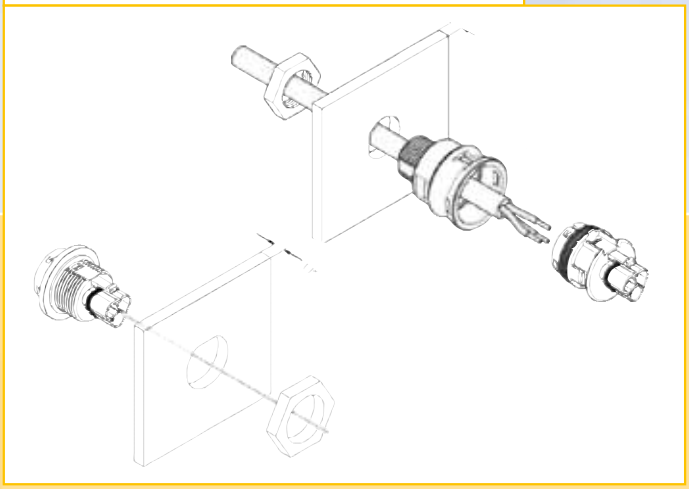
Device connectors are integrated into the relevant housing knock-outs and function as an outward interface.

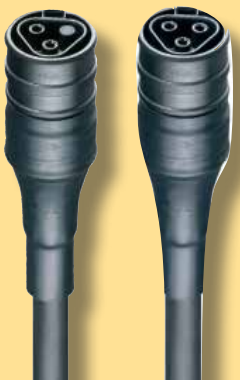
There are basically two variations: the single-piece **M25 standard device connectors** are simply installed inside the housing.

The **modular device connectors (two-piece)** are available in M16, M20 and M25 variations as well as in 0°, 7° and 90° angles.



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





Also see:

RST 20i2 Protection class II

RST 20i3 Power with ⏚

Complete system for industrial use
Connecting quickly and safely

System engineering

The pluggable electrical installation 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 the components, are not only time-consuming operations, but frequently also cause errors and result in reworking. Cooperation of different trades (mechanical and electrical installation) during the setup of a system impedes the continuous progress of operations. This does not just apply to 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. As an additional advantage 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.

Possible applications:
– Motor connection (3~)
– Power distribution 250/400 V ~
– Power supply up to 50 V, bus
– Voltage supply 24 V, ASi
– Workstation illumination
– Painting checks

Pre-assembly in a separate location:

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

The individual modules are simply plugged together on site.

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 provided.

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

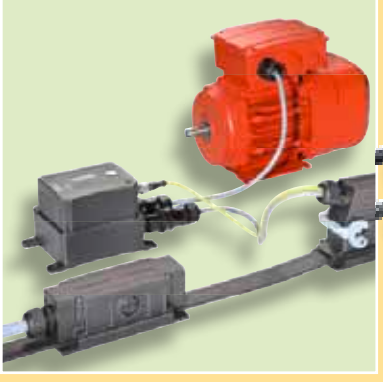
Making electrical devices pluggable

Device connectors 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 (M 16 and M 25) and can therefore be replaced easily by conventional feed-through facilities.

Also see:

RST 20i2	ASi or 24 V
RST 20i3	Power with ⏚
RST 20i4	Power with ⏚ ASi and 24 V
RST 20i5	Power with ⏚
Compact and multi-distribution units	
RST 50i4	Power with ⏚
RST 50i5	Power with ⏚



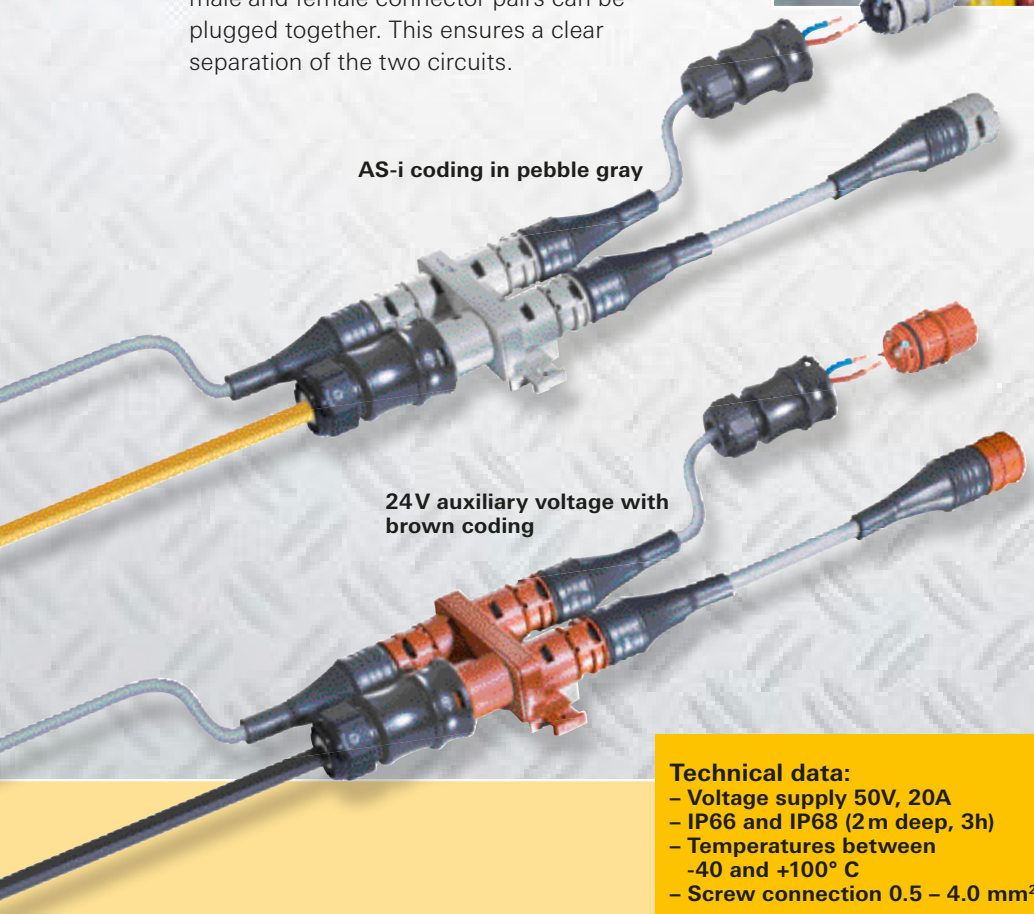
Rapid mounting system
Flexible and modular AS Interface

System engineering

Separate laying of AS-i and 24 V

AS-i and auxiliary power 24 V

An individual mechanical coding is provided for each circuit. Mechanically coded means that only the matching male and female connector pairs can be plugged together. This ensures a clear separation of the two circuits.



Four basic components for a consistent installation:

- Connectors can be pre-assembled on site and are available either for connection of a round connector or of the AS-i profile cable.
- Distribution blocks enable distribution of electrical power and signals throughout the network.
- Pre-assembled cables are available in various lengths and designs and are used for the routing and supply of auxiliary power/signals.
- Device connections are directly integrated into the end devices and function as the interface to the connector system.

Technical data:
– Voltage supply 50V, 20A
– IP66 and IP68 (2 m deep, 3h)
– Temperatures between -40 and +100° C
– Screw connection 0.5 – 4.0 mm²

Common laying of AS-i and 24 V

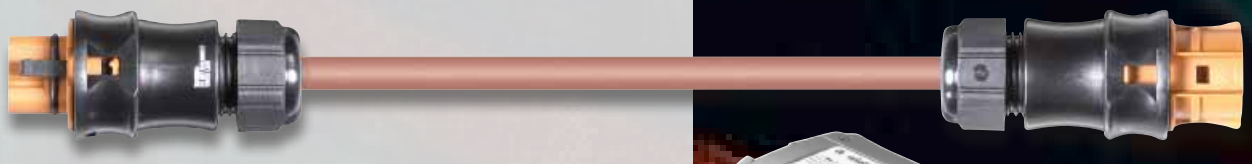
AS-i and 24 V combined in one cable

Until now AS-i and 24 V have normally been laid separately, but can now be combined and installed in a 4 pole version, too.

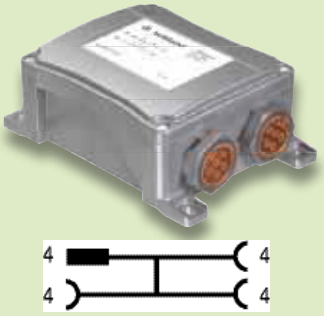
The highest level of flexibility

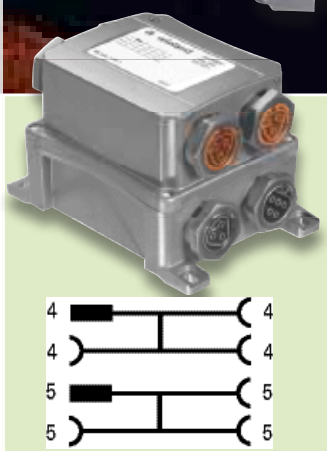
The rapid mounting system provides the decisive advantage particularly for the increasingly modular design in function modules. Depending on the application you can switch between the low-cost round cable and the AS-i profile cable as required.
Everything is pluggable - for the user, this means top flexibility and at the same time quick and reliable installation.

Also see:
RST 20i2 AS-i or 24 V
RST 20i4 AS-i and 24 V
Compact and multi-distribution unit



Distribution unit AS-i/24 V





Distribution unit AS-i/24 V and power

gesis Ex.

ATEX-certified pluggable electrical installation.

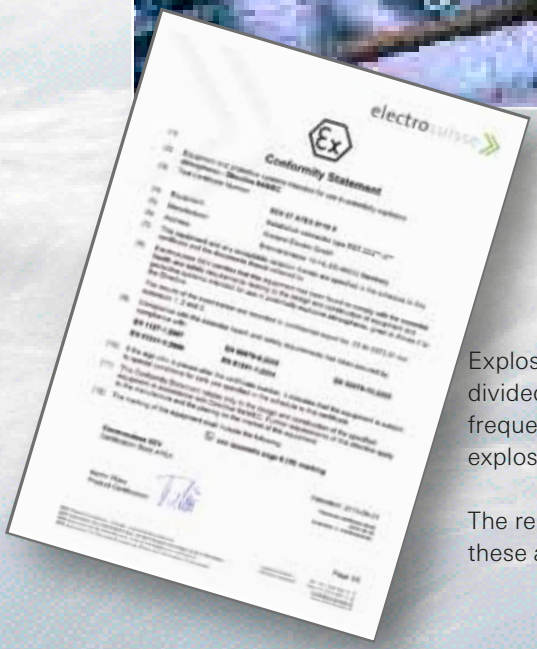
System engineering

Used in different industries

Definition of explosive hazardous areas

When talking about explosive hazardous areas, everybody thinks of the chemical industry or mining. However, explosion protection is an important topic for many sectors of the processing industry. In some cases, even carpenter's workshops and industrial bakeries may be affected. Special explosion protection measures are necessary wherever a dangerously high concentration of gas/air or dust/air mixtures occurs.

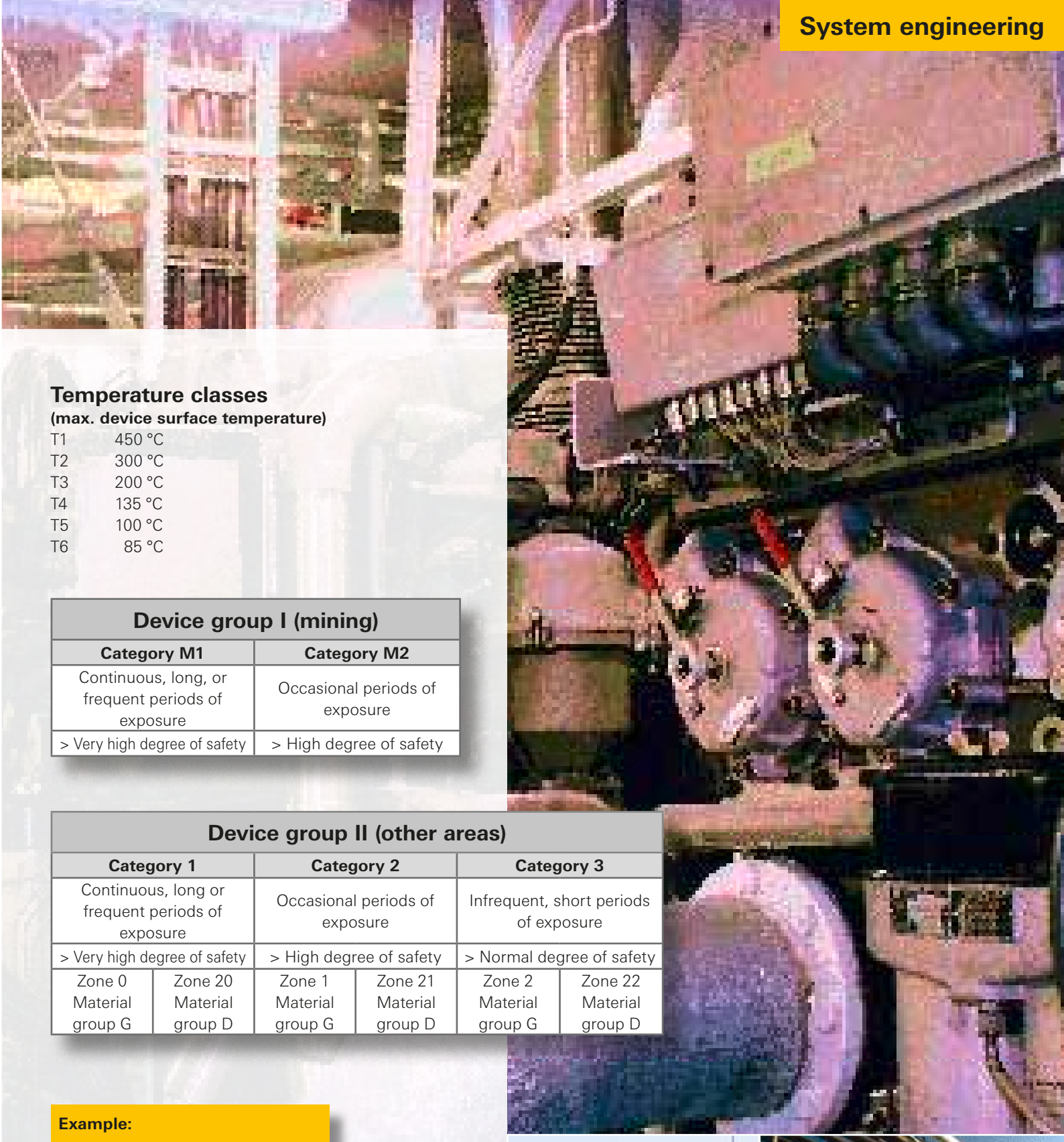
Areas where a potentially explosive atmosphere is possible must be clearly identified as explosive hazardous areas.



Explosive hazardous areas are often divided into zones according to the frequency and duration of potentially explosive atmospheres.

The requirements for devices used in these areas are correspondingly high.

Coding:
Connectors and device connections:
Ex II 3G Ex nA II T6
II 3D Ex tD A22 IP65 T85 °C
Preassembled cables:
Ex II 3G Ex nA II T6
II 3D Ex tD A22 IP65 T70 °C (cable type H05VV-F)
II 3D Ex tD A22 IP65 T60 °C (cable type H07RN-F)



Temperature classes
(max. device surface temperature)

T1	450 °C
T2	300 °C
T3	200 °C
T4	135 °C
T5	100 °C
T6	85 °C

Device group I (mining)	
Category M1	**Category M2**
Continuous, long, or frequent periods of exposure	Occasional periods of exposure
> Very high degree of safety	> High degree of safety

Device group II (other areas)					
Category 1		**Category 2**		**Category 3**	
Continuous, long or frequent periods of exposure		Occasional periods of exposure		Infrequent, short periods of exposure	
> Very high degree of safety		> High degree of safety		> Normal degree of safety	
Zone 0 Material group G	Zone 20 Material group D	Zone 1 Material group G	Zone 21 Material group D	Zone 2 Material group G	Zone 22 Material group D

Example:

Part number **9**6.031.4053.1
⬇
X6.031.4053.1

To obtain the part numbers for the components with ATEX certificate, the first digit of the regular part number „9“ must be replaced with an „X“.
The minium order quantity is 100 units per part.

podis® flat cable power bus

Remote power distribution without stripping

System engineering

Power bus

The ***podis***® power bus is the innovative solution for remote power distribution. The system comprises supply and distribution modules, maintenance switches, fixed and pluggable power branches, preassembled cable harnesses and a comprehensive range of accessories.

The power (main and auxiliary power or AS-i) is distributed through an uncut 7 pole flat cable. The flat cable is tapped near the consumer device in any position required using connection modules with IDC technology. Branching and tapping to motor starters and frequency converters are implemented in a fixed or pluggable design.

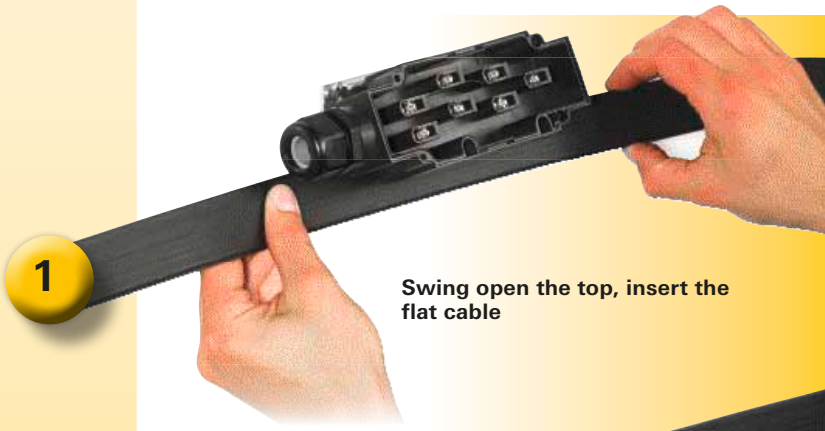
Advantages of *podis*® – at a glance:

- 5x faster installation
- Fast start-up through error-free connectivity
- Modular system for various functions
  - Smallest remote motor starter in IP65 up to 1.5 kW
  - Robust LED lamps for extreme temperature range (-40 °C up to +70 °C)

Features

- Termination without stripping of the sheath
- Easy implementation of customer-specific solutions
  - Field distributors for SEW MOV/MOT control
  - Remote motor starters for airports and logistics applications
  - LED emergency lamps for wind power plants
- UL approval for international applications

podis® **power bus solutions shorten installation times, reduce production costs and increase flexibility during system expansions or later modifications to the planning.**



1

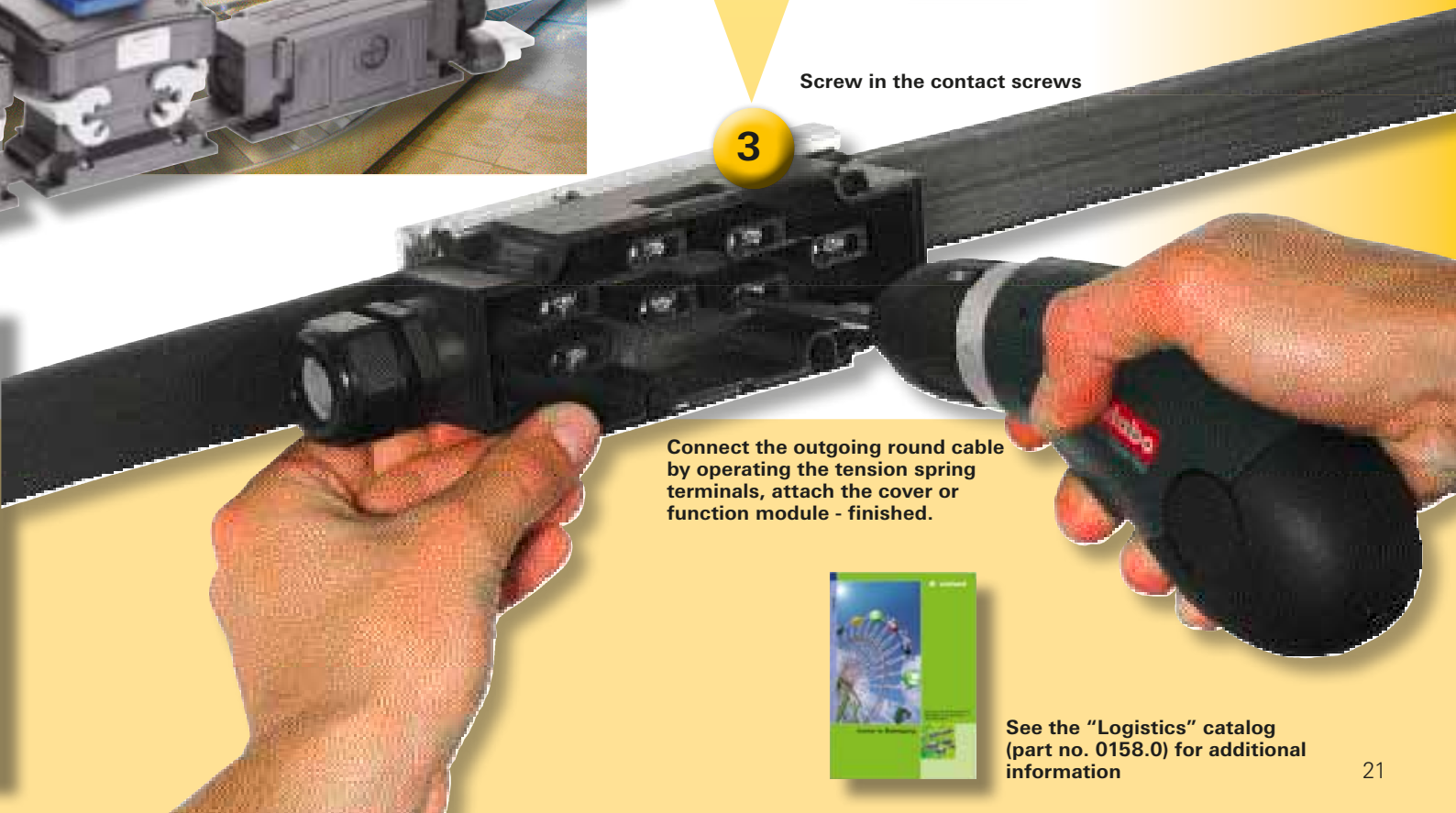
Swing open the top, insert the flat cable

2

Close the top, the cable is sealed providing IP65 protection; no additional strain relief required

Screw in the contact screws

3



Connect the outgoing round cable by operating the tension spring terminals, attach the cover or function module - finished.

See the “Logistics” catalog (part no. 0158.0) for additional information

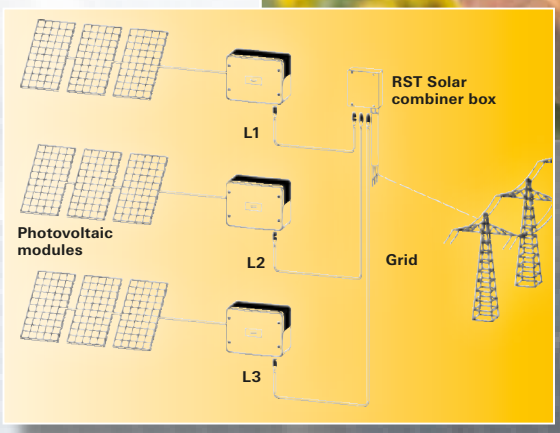
The safe path into the grid

The AC Solar connector system

Solar technology

■ 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 grid side still had to be made in the time-consuming conventional way.
When several inverters are used within an array, the high installation effort becomes apparent.



■ The solution:

With its new AC Solar round connector system, Wieland provides an optimum solution for the AC area. Pre-assembled components with an increased degree of protection ensure a quick and safe installation even under the most adverse conditions.
The system includes distribution panels which are delivered in a pre-assembled design, and cable assemblies for the connection between the inverters and the distribution panels.
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.

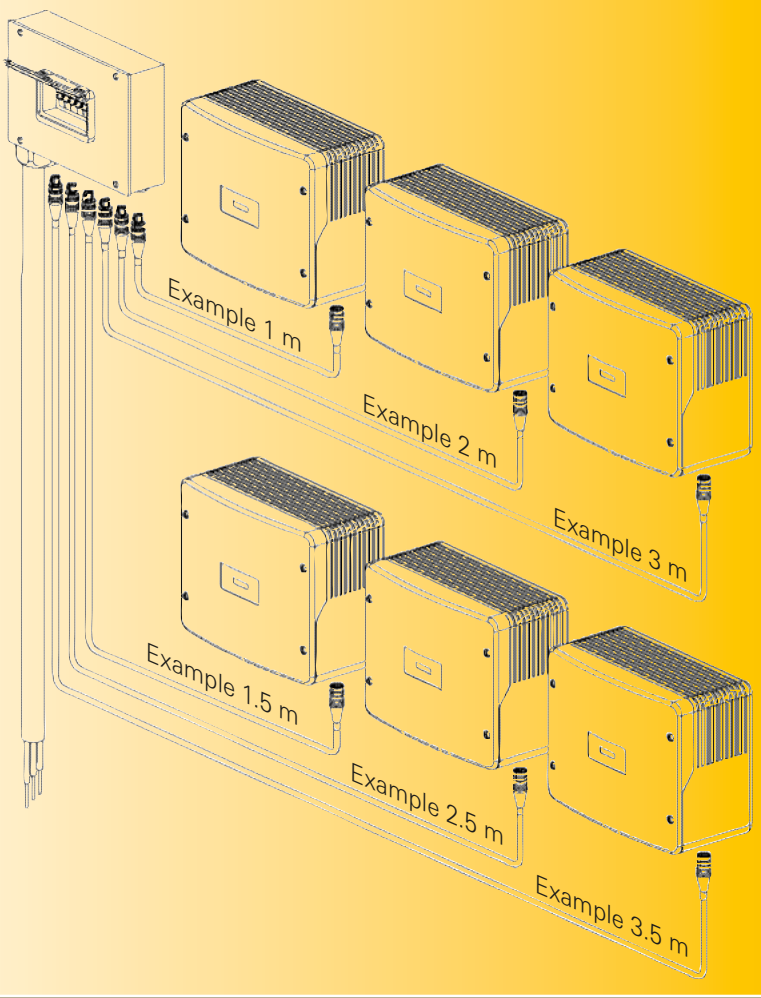
Other fields of application

- **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)**

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

Also see:
RST 25i3 Single-phase supply
RST 25i5 Three-phase supply
RST 50i4 Three-phase supply
RST 50i5 Three-phase supply

Example: System segment up to 30 kWp, installed with RST25i3



The new RST50 Power series

The new RST50 Power series combines the best possible connection capabilities with the highest possible degree of compactness. The 4 and 5 pole IP 66…67 connectors and device connectors are designed for 250 / 400 V and a maximum current of 50 A. The wire range includes cross sections up to 16 mm^2.

Additional information can be found in the RST 50i4 and RST 50i5 sections.

The flexible electrical installation

Construction site supply during structural works

Construction power systems

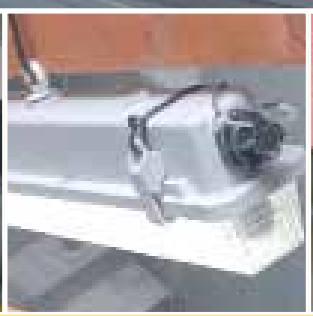
■ The challenge:

Time pressure in the project business is greater than ever: it is therefore even more important that all processes function and are attuned to one another without a problem.
The construction power systems make a major contribution, as they ensure the supply of electrical power during structural work. 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 installations 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. Distribution components furthermore enable the distribution of power to the relevant location.

And finally, there are the luminaires. They have been equipped with device connectors and can be integrated into the installation by simply plugging them in.



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 luminaires can be made pluggable. Therefore, the luminaire manufacturers can easily integrate them into their products.

■ Low stock requirements

In contrast to the luminaires with a fixed connection cable, these luminaires 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 luminaires can be assembled easily on the construction site, as the electrical connection is made after the luminaires 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 knock-outs are no obstacle.

■ 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.

Also see:
RST 20i3 Power 3 pole
RST 20i5 Power 5 pole
RST 50i5 Power 5 pole

Pluggable solutions for event technology

Outdoor installations – no longer an adventure

Event technology

■ 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, luminaires quickly and safely. Special attention was put on the design in order to make it match inconspicuously with the existing installation

Also see:
RST20i2 Protection class II
RST20i3 Power with ⏚
Accessories

Christmas lighting (post lighting, tree lighting, sales booths)

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.

Post outlet:
The post outlet is simply integrated into existing posts and thus ensures the power supply. It even provides minimal dimensions and optimum 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!

Event technology (project lighting, festivals, leisure parks, fairground rides, exhibitions, concerts, light advertisements)

Post outlet
2 pole (L, N) and
3 pole L, N, ⏚)

Also see:
RST 20i2 Protection class II
RST 20i3 Power with ⏚
RST 20i5 Power with ⏚
Compact and multi-distr. unit
RST 50i5 Power with ⏚

For requirements with increased protection degree
gesis installation systems provide safety

Project and shipbuilding

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.
- **Safe power distribution:**
  The new compact and multi-distribution units are the heart of pluggable electrical installation and can also be customized.

■ 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!








Moonlight

plug & play in outdoor applications
Electrical installations using the "Lego principle"

Outdoor lighting

■ 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 such cases to the luminaire manufacturer and are left with a bad impression.

■ The solution:

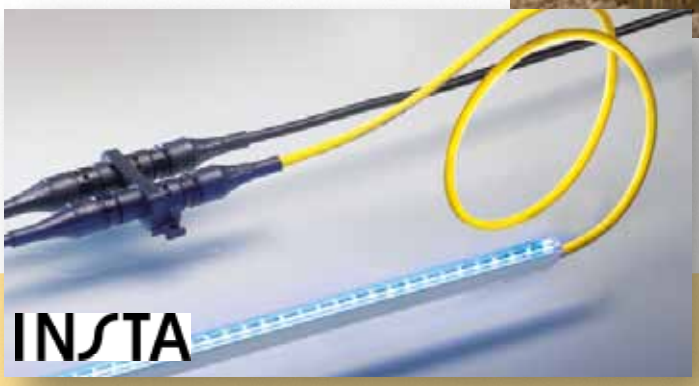
As a complete installation system, ***gesis*** IP+ is optimally adapted to these increased requirements. It is very flexible in its application and has proven technology at its disposal. Luminaires can thus be delivered in a pre-assembled design. They only have to be plugged in on site. The connectors 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 IP68 protection degree make the RST connector a strong partner for outdoor lighting.

It is not possible to lay the components directly in the ground. In order to satisfy VDE0100-520 the connections must be protected mechanically in addition and must be accessible for inspection, testing and maintenance.

Connectors:

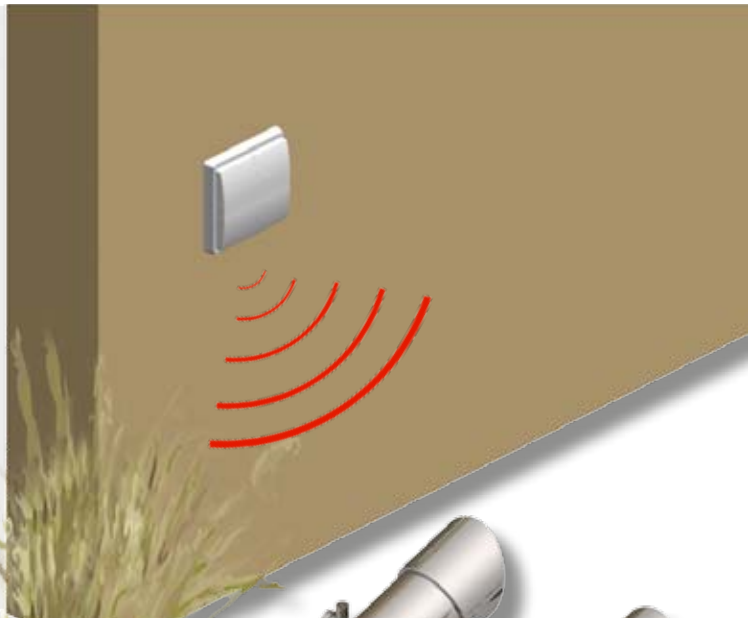
For the various luminaire types, power connectors for 250V and low-voltage connectors for LED technology up to 50V are available. These are mechanically coded and can therefore not be mismated.

For parallel applications, this provides additional safety.



Also see:

RST20i2	Protection class II, low voltage
RST20i3	Power 3 pole
RST20i5	Power 5 pole

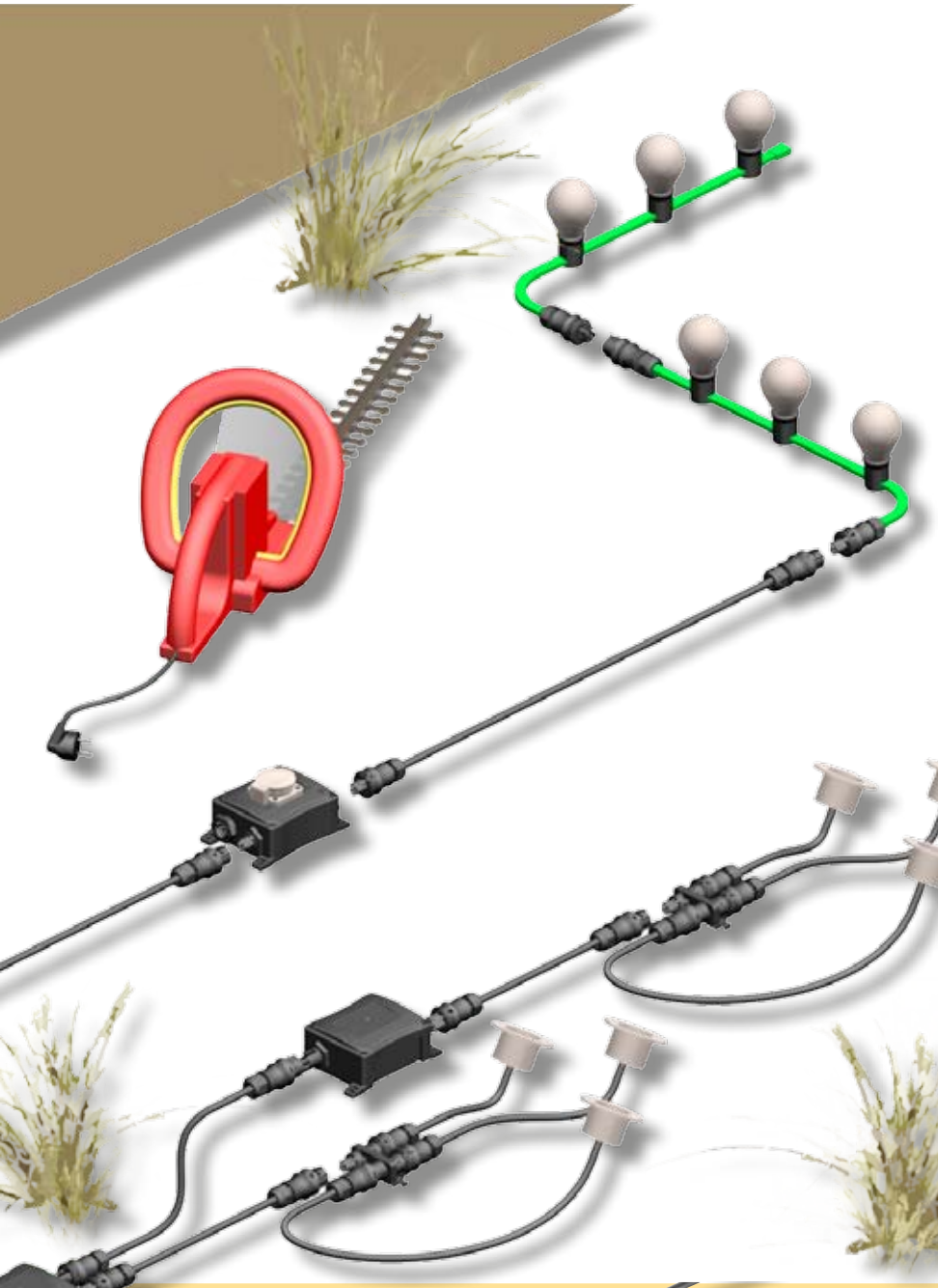


Consistently pluggable solutions for outdoor installations

- Wireless distribution units
- Current and voltage sources
- Series and parallel distribution
- Distribution units with integrated fine fuses
- Distribution units with integrated grounding outlet

plug & play in outdoor applications

Solutions for most demanding requirements

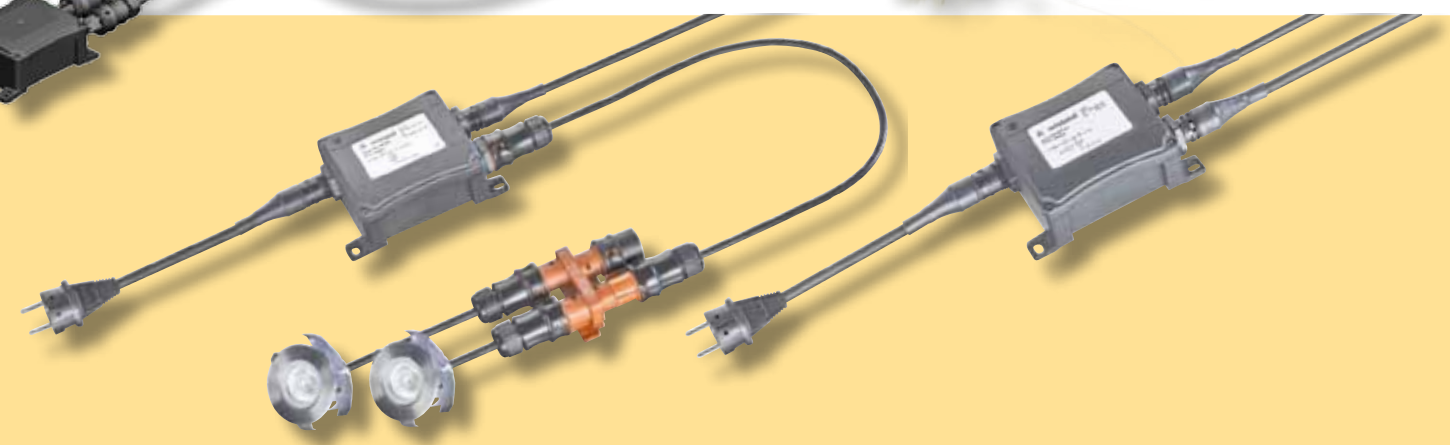


Also see:

RST 20i2 Low voltage, parallel and series distribution units

RST 20i3 Power 3 pole

Compact and multi-distribution units



Pluggable 3D distribution units
More than just distribution!

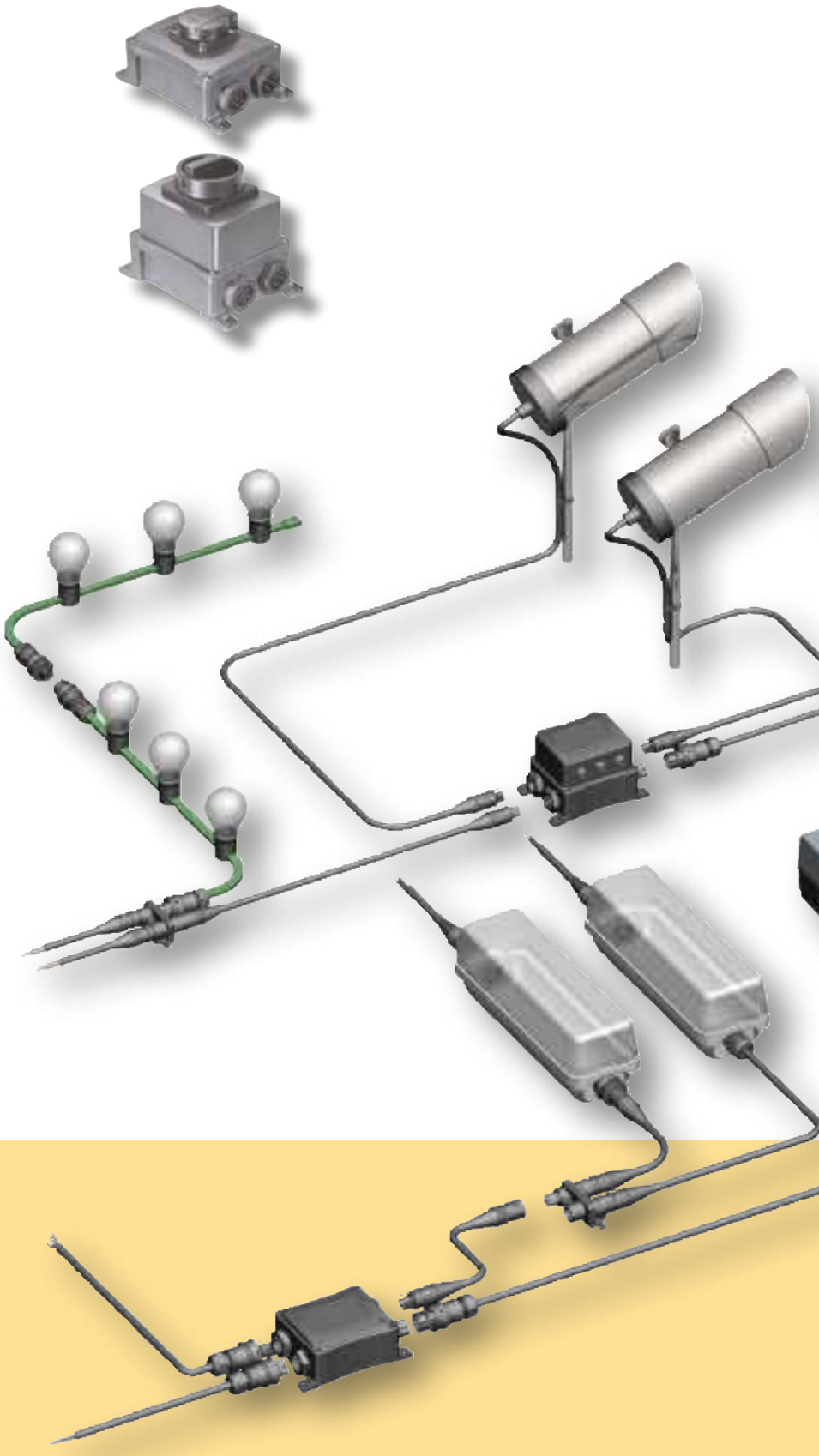
The RST compact distribution unit – more than just distribution!

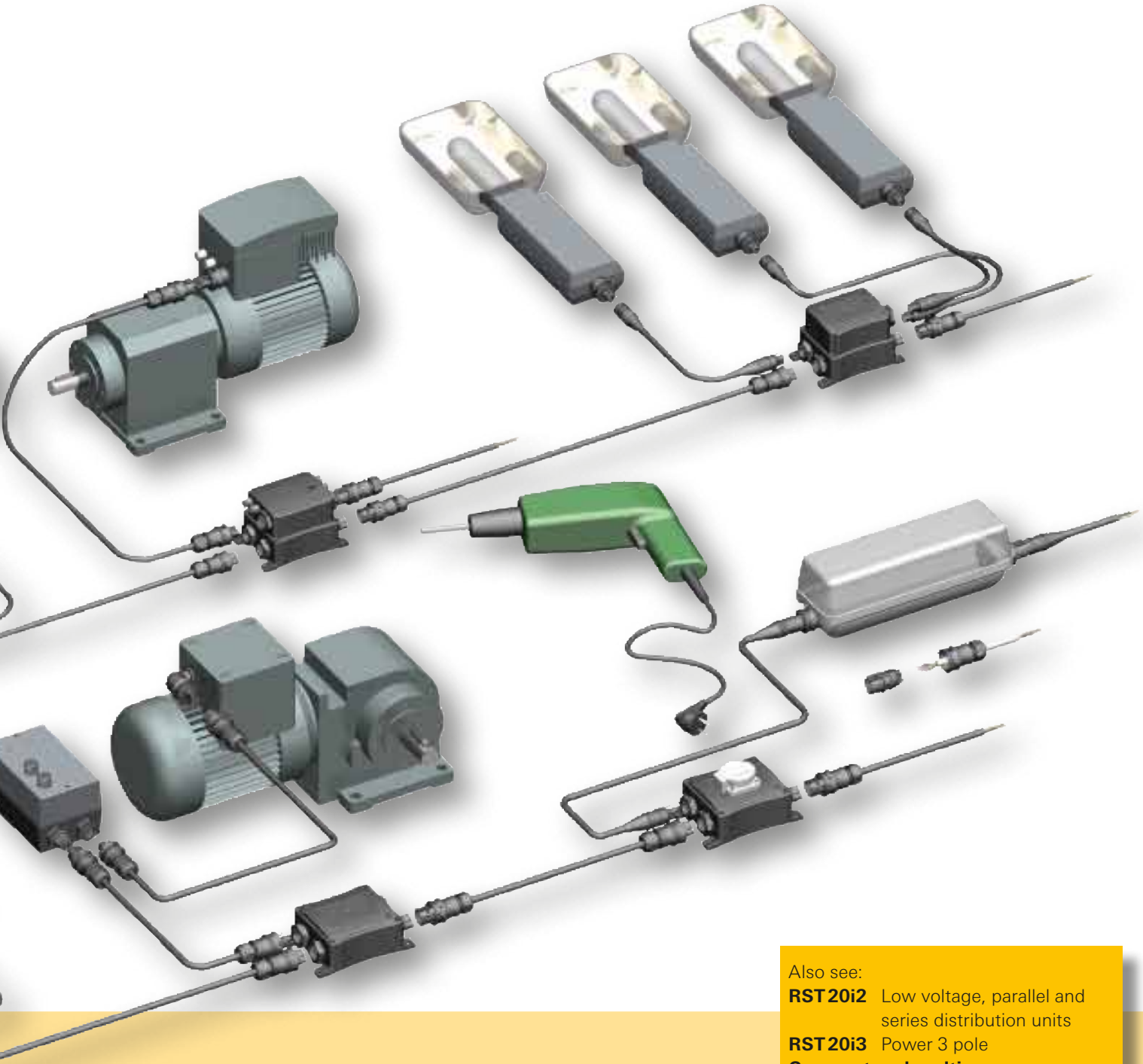
Installations differ from one another. This makes it even more important that the product range is oriented towards the application requirements. A clear separation of different circuits using mechanically coded connectors is as important as pre-assembled cables in various defined lengths.

However, the pluggable distribution units play a major role in power distribution. In their simplest function, they merely have to provide branches in the required locations.

Practice shows, however, that the requirements may be much more complex.

Examples can be found in AC and DC wiring through distribution units with fine fuses up to boxes with integrated safety outlets or switches.





Also see:

RST20i2 Low voltage, parallel and series distribution units

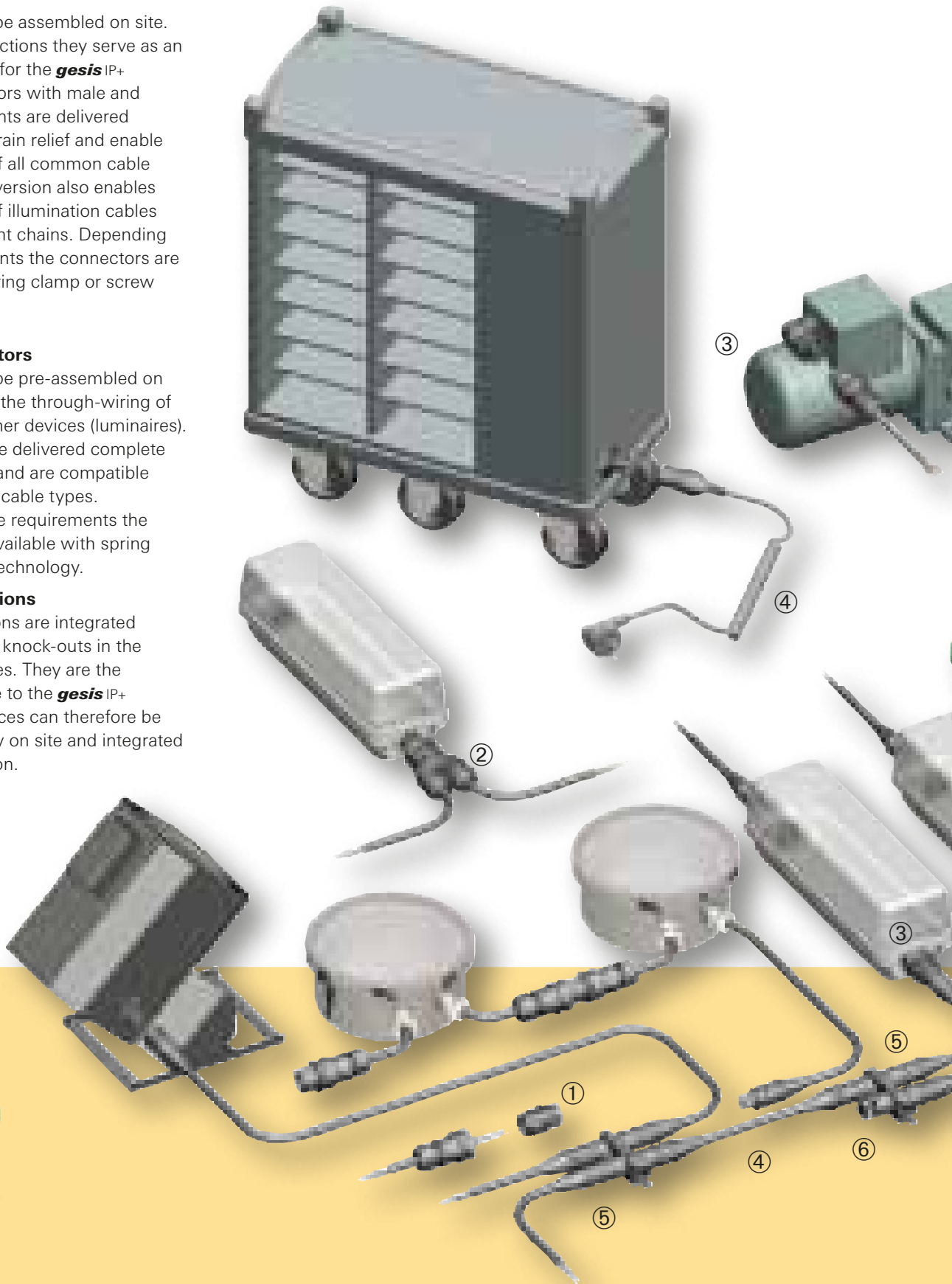
RST20i3 Power 3 pole

Compact and multi-distribution units

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 version also enables the connection of illumination cables for decorative light chains. 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 (luminaires). 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 knock-outs 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.



3D system description

Overview of the electrical installation *gesis*

Basically two variations are available: the M 25 standard device connector as well as a modular version with M 16 or M 20 connection threads. An angled design completes the system.

④ **Cable assemblies**
Electrical power is supplied by using cable assemblies. Three basic versions are distinguished: power 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.

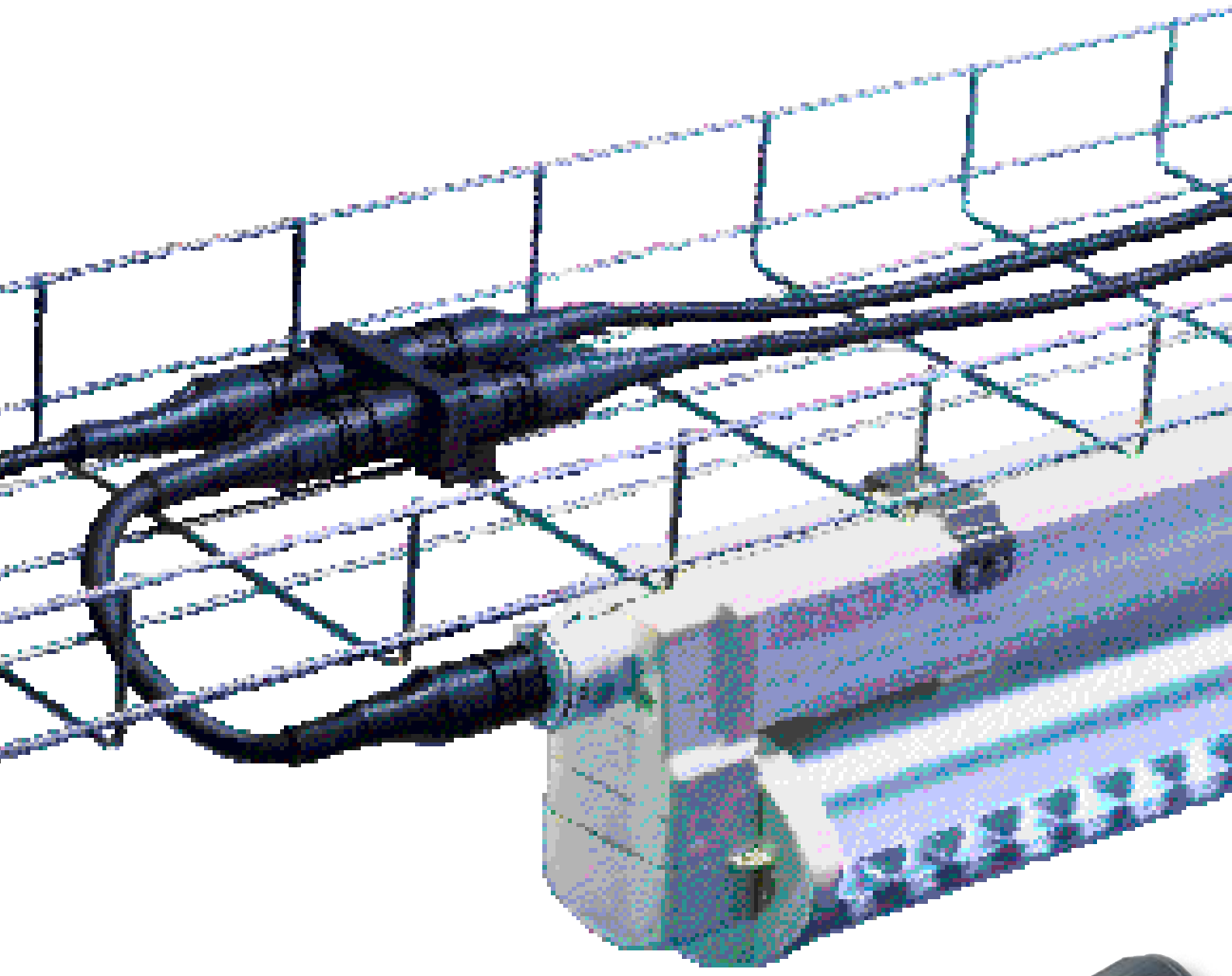
Overview matrix

Codings and applications at a glance

			RST20i2 2 pole, 20A			RST20i3 3 pole, 20A			
Pole marking			L, N	1, 2	+, –	L, N, ⏚	1, 2, ⏚	1, 2, 3	1, 2, ⏚
Application			Protection class II	LV, signals, bus up to 50 V	AS-i bus	Power 250 V	Power 250 V/400 V	Switching applications 230 V	LV, signals, bus up to 50 V with ground
Contact insert male and female			Spring clamp Screw	Spring clamp Screw	Screw	Spring clamp Screw	Spring clamp Screw	Spring clamp Screw	Spring clamp Screw
Connectors	1 x cable entry	Ø 6 –10 mm							
		Ø 10 –14 mm							
		Ø 13 –18 mm							
		Ø 15 –25 mm							
		Ø 20 –32 mm							
		Flat cable 13 x 6 mm							
		AS-i profile cable							
	2 x cable entry	Ø 6 –10 mm							
		Ø 10 –14 mm							
		AS-i profile cable							
Device connectors	1-piece	M25							
		M32							
		M40							
	2-piece	M16 straight							
		M16 7° angled							
		M20 straight							
		M20 angled							
		M25 angled							
Distrib. units		Distribution block 1 I/3 O							
		RST compact/ multi-distribution units							
		Individual distribution box							
Cable assemblies		Expansion cable Female – Male							
		Power connection Female – Free end							
		Device connection Male – Free end							
		Power connection Safety plug – female							
		Power connection European connector, SKII – female							

RST25i3 3 pole, 32 A	RST20i4 4 pole, 20 A		RST20i5 5 pole, 20 A				RST25i5 5 pole, 25 A (1~)	RST50i4 4 pole, 50 A (3~)	RST50i5 5 pole, 25 A (3~)
L, N, ⏚	1, 2, 3, ⏚	1, 2, 3, 4	1, 2, 3, N, ⏚	1, 2, 3, 4, 5	L, N, ⏚, D1, D2	1, 2, 3, 4, 5	L, N, ⏚, 1, 2	⏚, 1, 2, 3	⏚, 1, 2, 3, N
Power 250 V	Power 250 V/400 V	AS-i and 24 V	Power 250 V/400 V	LV, signals, bus up to 50 V	Power 250 V/ Dimming	Switching applications 230 V	Power 250 V/400 V	Power 250/400 A	Power 250/400 A
Screw	Screw Crimp	Screw Crimp	Screw Crimp	Screw Crimp	Screw Crimp	Screw Crimp	Screw	Screw Crimp	Screw Crimp

RST 20i2



Applications in the fields of protection class II, low voltage or signals

Application example

General

The two pole connector is based on the 3 pole variation with one pole left empty.
Basically there are three variations: a connector for low-voltage applications (e.g. LEDs), a connector for AS Interface and a connector for applications covering protection class II. The latter are downward compatible with the 3 pole system with ground connector (RST 20i3). 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

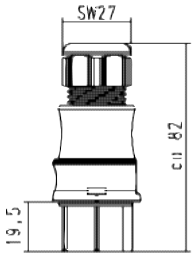
				Application	Protection class II		50 V	AS-i
				Mechanical coding	L, N		1, 2	+, –
Name	**Description**	**Connection style**	**Strain relief housing**	**Connection points per pole**	gray	black	brown	pebble gray
Connectors	1 x cable entry	Screw Spring clamp	yes	1 2	■	■	■	■
	2 x cable entry	Screw Spring clamp	yes	1 2	■	■	■	■
Distribution units	Distribution block 1 I/ 3 O				■	■	■	■
	RST compact distribution unit/multi-distribution unit				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
	Series distribution unit for power LEDs						■	
Device connectors	M16 device connector, modular, straight				■	■	■	■
	M16 device connector, modular, angled 7°				■	■	■	■
	M25 device connector, standard				■	■	■	■
	M20 device connector, standard				■	■	■	■
	M20 device connector, modular, angled				■	■	■	■
	M25 device connector, modular, angled				■	■	■	■
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	■	■	■	■
	Connection cable Female – Free end				■	■	■	■
	Extension cable Male – Female				■	■	■	■
	Connection cable Europ. conn. SK II – Female				■	■	■	■
	Round cable				■	■	■	■
	AS-i profile cable							■

Connector

Female connector

Unmounted with cable gland.

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

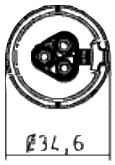


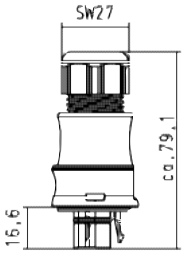
Application	Coding	Cable diameter in mm	Color	Part No. with spring clamp connection	Part No. with screw connection[1]
				Wire / mm² / Ferrules	Wire / mm² /
				rigid 0.5 – 2.5	rigid 0.75 – 6.0[2] without ferrules
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0[2] without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded 0.75 – 6.0[2] without ferrules
Protection class II	L, N	6 – 10	gray	96.021.0053.0	96.021.4053.0
			black	96.021.0053.1	96.021.4053.1
		10 – 14	gray	96.021.0153.0	96.021.4153.0
			black	96.021.0153.1	96.021.4153.1
		Illumination cable 13.3 x5.3	gray	96.021.0453.0	96.021.4453.0
		H05RNH2-F2 x 1.5²	black	96.021.0453.1	96.021.4453.1
50 V	1, 2	6 – 10	brown	96.021.0051.4	96.021.4051.4
		AS-i profile cable	brown	96.021.0951.4	96.021.4951.4
AS-i	+, –	Round cable 6 – 10	pebble gray	96.021.0050.8	96.021.4050.8
		AS-i profile cable	pebble gray	96.021.0950.8	96.021.4950.8

Male connector

Unmounted with cable gland and locking device.

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





Application	Coding	Cable diameter in mm	Color	Part No. with spring clamp connection	Part No. with screw connection[1]
				Wire / mm² / Ferrules	Wire / mm² /
				rigid 0.5 – 2.5	rigid 0.75 – 6.0[2] without ferrules
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0[2] without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded 0.75 – 6.0[2] without ferrules
Protection class II	N, L	6 – 10	gray	96.022.0053.0	96.022.4053.0
			black	96.022.0053.1	96.022.4053.1
		10 – 14	gray	96.022.0153.0	96.022.4153.0
			black	96.022.0153.1	96.022.4153.1
		Illumination cable 13.3 x5.3	gray	96.022.0453.0	96.022.4453.0
		H05RNH2-F2 x 1.5²	black	96.022.0453.1	96.022.4453.1
50 V	2, 1	6 – 10	brown	96.022.0051.4	96.022.4051.4
		AS-i profile cable	brown	96.022.0951.4	96.022.4951.4
AS-i	–, +	Round cable 6 –10	pebble gray	96.022.0050.8	96.022.4050.8
		AS-i profile cable	pebble gray	96.022.0950.8	96.022.4950.8

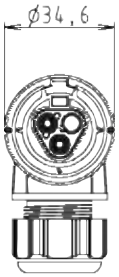
[1] With wire protection available on request
[2] With 6.0 mm² wires, the pull and bending forces at the connector must be taken into consideration and compensated using suitable measures if required.

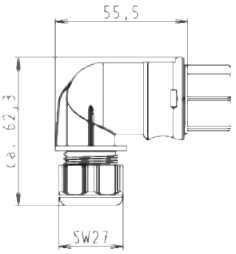
Connector, angled

Female connector

Unmounted with cable gland.
90° angle.

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



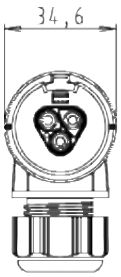


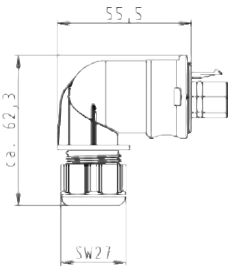
Application	Coding	Cable diameter in mm	Color	Part No. with spring clamp connection	Part No. with screw connection[1]
				Wire / mm² / Ferrules	Wire / mm² /
				rigid 0.5 – 2.5	rigid
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0[2] without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded without ferrules
Protection class II	L, N	6 – 10	gray	96.023.0053.0	96.023.4053.0
			black	96.023.0053.1	96.023.4053.1
		10 – 14	gray	96.023.0153.0	96.023.4153.0
			black	96.023.0153.1	96.023.4153.1
		Illumination cable 13.3 x5.3 H05RNH2-F2 x 1.5²	gray	96.023.0453.0	96.023.4453.0
			black	96.023.0453.1	96.023.4453.1
50 V	1, 2	6 – 10	brown	96.023.0051.4	96.023.4051.4
		AS-i profile cable	brown	96.023.0951.4	96.023.4951.4
AS-i	+, –	Round cable 6 –10	pebble gray	96.023.0050.8	96.023.4050.8
		AS-i profile cable	pebble gray	96.023.0950.8	96.023.4950.8

Male connector

Unmounted with cable gland and locking device. 90° angle.

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





Application	Coding	Cable diameter in mm	Color	Part No. with spring clamp connection	Part No. with screw connection[1]
				Wire / mm² / Ferrules	Wire / mm² /
				rigid 0.5 – 2.5	rigid
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0[2] without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded without ferrules
Protection class II	N, L	6 – 10	gray	96.024.0053.0	96.024.4053.0
			black	96.024.0053.1	96.024.4053.1
		10 – 14	gray	96.024.0153.0	96.024.4153.0
			black	96.024.0153.1	96.024.4153.1
		Illumination cable 13.3 x5.3 H05RNH2-F2 x 1.5²	gray	96.024.0453.0	96.024.4453.0
			black	96.024.0453.1	96.024.4453.1
50 V	2, 1	6 – 10	brown	96.024.0051.4	96.024.4051.4
		AS-i profile cable	brown	96.024.0951.4	96.024.4951.4
AS-i	–, +	Round cable 6 –10	pebble gray	96.024.0050.8	96.024.4050.8
		AS-i profile cable	pebble gray	96.024.0950.8	96.024.4950.8

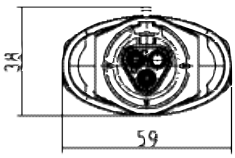
[1] With wire protection available on request
[2] With 6.0 mm² wires, the pull and bending forces at the connector must be taken into consideration and compensated using suitable measures if required.

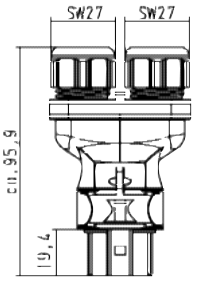
Splitter connector

Female connector

Unmounted with cable gland.

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





Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
				with spring clamp connection	**with screw connection**[1]
				Wire / mm² / Ferrules	Wire / mm² /
				rigid 0.5 – 2.5	rigid
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 2.5 without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded without ferrules
Protection class II	L, N	6 – 10	gray	96.021.0253.0	96.021.4253.0
			black	96.021.0253.1	96.021.4253.1
		10 – 14	gray	96.021.0353.0	96.021.4353.0
			black	96.021.0353.1	96.021.4353.1
		Illumination cable 13.3 x5.3 H05RNH2-F2 x 1.5²	gray	on request	on request
			black	on request	on request
50 V	1, 2	6 – 10	brown	96.021.0251.4	96.021.4251.4
		10 –14	brown	96.021.0351.4	96.021.4351.4

Mounting plate
For splitter connectors

Color	Part No.
gray	01.006.1553.0
black	01.006.1553.1

[1] With wire protection available on request

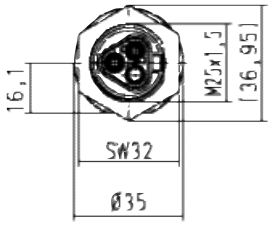
M 25 device connector, standard

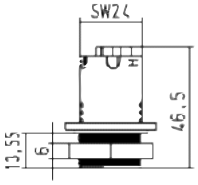
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.

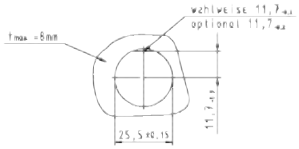
See the Technical Data for insulation strip lengths as well as the ferrules to be used.

For spacer rings for unlocking at the device connector, see Accessories.





Application	Coding		Color
Protection class II		L, N	gray black
50 V		1, 2	brown
AS-i		+, –	pebble gray



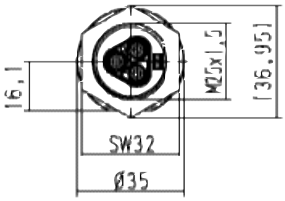
Part No.		
with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M25 x 1.5	
Gland	outside	
96.021.1053.0 96.021.1053.1 96.021.1051.4		
96.021.1050.8		

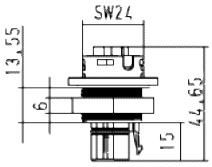
Part No.		
with screw connection[1]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M25 x 1.5	
Gland	outside	
96.021.5053.0 96.021.5053.1 96.021.5051.4		
96.021.5050.8		

Male connector

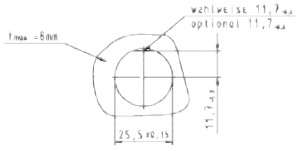
Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.
With locking device.

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





Application	Coding		Color
Protection class II		N, L	gray black
50 V		2, 1	brown
AS-i		–, +	pebble gray



Part No.		
with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M25 x 1.5	
Gland	outside	
96.022.1053.0 96.022.1053.1 96.022.1051.4		
96.022.1050.8		

Part No.		
with screw connection[1]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0[2]	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M25 x 1.5	
Gland	outside	
96.022.5053.0 96.022.5053.1 96.022.5051.4		
96.022.5050.8		

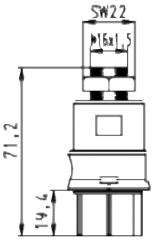
[1] With wire protection available on request

M 16 device connector, modular, straight

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

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

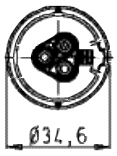


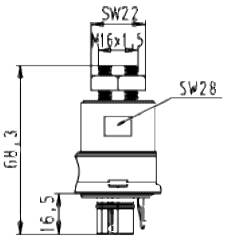
Application	Coding	Color	Part No.	Part No.
			with spring clamp connection	**with screw connection**[1]
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M16 x 1.5	Thread M16 x 1.5
			Gland inside	Gland inside
Protection class II	L, N	gray	96.021.2153.0	96.021.6153.0
		black	96.021.2153.1	96.021.6153.1
50 V	1, 2	brown	96.021.2151.4	96.021.6151.4
AS-i	+, –	pebble gray	96.021.2150.8	96.021.6150.8

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device

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





Application	Coding	Color	Part No.	Part No.
			with spring clamp connection	**with screw connection**[1]
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M16 x 1.5	Thread M16 x 1.5
			Gland inside	Gland inside
Protection class II	N, L	gray	96.022.2153.0	96.022.6153.0
		black	96.022.2153.1	96.022.6153.1
50 V	2, 1	brown	96.022.2151.4	96.022.6151.4
AS-i	–, +	pebble gray	96.022.2150.8	96.022.6150.8

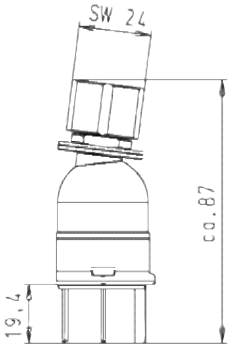
[1] With wire protection available on request

M 16 device connector, modular, 7° angle

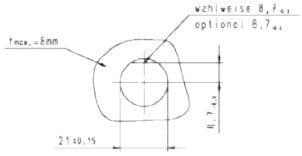
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

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



Application	Coding		Color
Protection class II		L, N	gray black
50 V		1, 2	brown
AS-i		+, –	pebble gray



with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M16 x 1.5	
Gland	inside	

Part No.
96.025.2153.0
96.025.2153.1
96.025.2151.4

with screw connection[1]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M16 x 1.5	
Gland	inside	

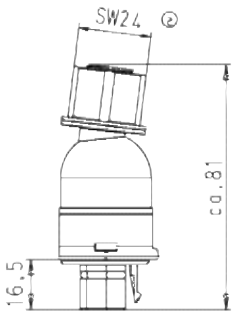
Part No.
96.025.6153.0
96.025.6153.1
96.025.6151.4

96.025.6150.8

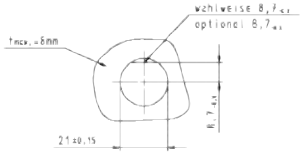
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

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



Application	Coding		Color
Protection class II		N, L	gray black
50 V		2, 1	brown
AS-i		–, +	pebble gray



with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M16 x 1.5	
Gland	inside	

Part No.
96.026.2153.0
96.026.2153.1
96.026.2151.4

with screw connection[1]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M16 x 1.5	
Gland	inside	

Part No.
96.026.6153.0
96.026.6153.1
96.026.6151.4

96.026.6150.8

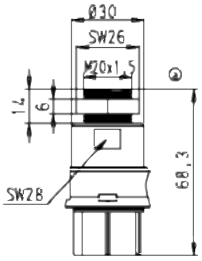
[1] With wire protection available on request

M 20 device connector, standard

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

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



Application	Coding	Color
Protection class II	L, N	gray black
50 V	1, 2	brown
AS-i	+, –	pebble gray

with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M20 x 1.5	
Gland	inside	

Part No.
96.021.2053.0
96.021.2053.1
96.021.2051.4

with screw connection[1)]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M20 x 1.5	
Gland	inside	

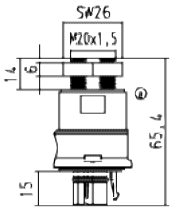
Part No.
96.021.6053.0
96.021.6053.1
96.021.6051.4

96.021.6050.8

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

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



Application	Coding	Color
Protection class II	N, L	gray black
50 V	2, 1	brown
AS-i	–, +	pebble gray

with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M20 x 1.5	
Gland	inside	

Part No.
96.022.2053.0
96.022.2053.1
96.022.2051.4

with screw connection[1)]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M20 x 1.5	
Gland	inside	

Part No.
96.022.6053.0
96.022.6053.1
96.022.6051.4

96.022.6050.8

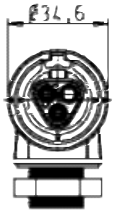
[1)] With wire protection available on request

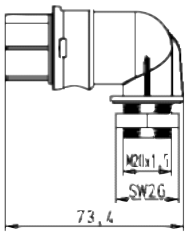
M 20 device connector, modular, angled

Female connector

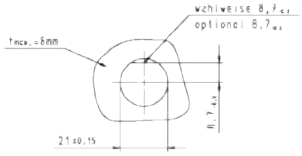
Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

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





Application	Coding		Color
Protection class II		L, N	gray black
50 V		1, 2	brown
AS-i		+, –	pebble gray



with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M20 x 1.5	
Gland	inside	

Part No.
96.023.2053.0 96.023.2053.1 96.023.2051.4
96.023.2050.8

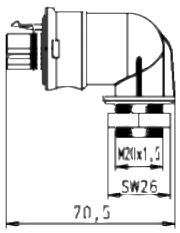
with screw connection[1]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M20 x 1.5	
Gland	inside	

Part No.
96.023.6053.0 96.023.6053.1 96.023.6051.4
96.023.6050.8

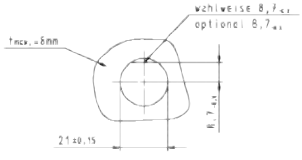
Steckerteil

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

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



Application	Coding		Color
Protection class II		N, L	gray black
50 V		2, 1	brown
AS-i		–, +	pebble gray



with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M20 x 1.5	
Gland	inside	

Part No.
96.024.2053.0 96.024.2053.1 96.024.2051.4
96.024.2050.8

with screw connection[1]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M20 x 1.5	
Gland	inside	

Part No.
96.024.6053.0 96.024.6053.1 96.024.6051.4
96.024.6050.8

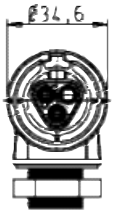
[1] With wire protection available on request

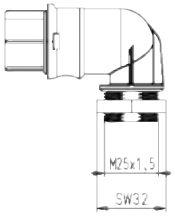
M 25 device connector, modular, angled

Female connector

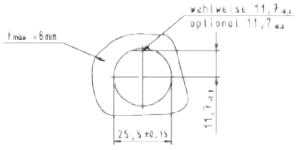
Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

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





Application	Coding		Color
Protection class II		L, N	gray black
50 V		1, 2	brown
AS-i		+, –	pebble gray



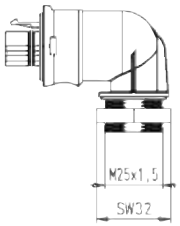
Part No.		
with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M25 x 1.5	
Gland	inside	
96.023.2253.0 96.023.2253.1 96.023.2251.4		
96.023.2250.8		

Part No.		
with screw connection[1]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M25 x 1.5	
Gland	inside	
96.023.6253.0 96.023.6253.1 96.023.6251.4		
96.023.6250.8		

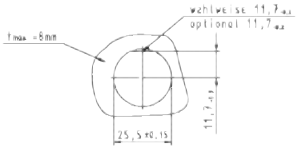
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

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



Application	Coding		Color
Protection class II		N, L	gray black
50 V		2, 1	brown
AS-i		–, +	pebble gray



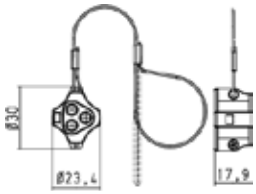
Part No.		
with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M25 x 1.5	
Gland	inside	
96.024.2253.0 96.024.2253.1 96.024.2251.4		
96.024.2250.8		

Part No.		
with screw connection[1]		
Wire	mm²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M25 x 1.5	
Gland	inside	
96.024.6253.0 96.024.6253.1 96.024.6251.4		
96.024.6250.8		

[1] With wire protection available on request

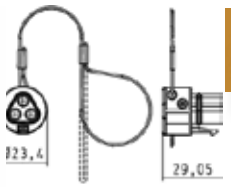
Accessories – Cover pieces

Female connector
2 to 3 pole



Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 2 – 3 pole	Pole: 2 – 3 pole
	Safe locking device: unused male connectors	Safe locking device: unused male connectors
gray	05.564.4453.0	99.415.6205.2
black	05.564.4453.1	99.416.6205.2

Male connector
2 to 3 pole

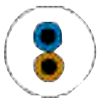


Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 2 – 3 pole	Pole: 2 – 3 pole
	Safe locking device: unused female connectors	Safe locking device: unused female connectors
gray	Z5.564.4553.0	99.413.6205.2
black	Z5.564.4553.1	99.414.6205.2

Cable assemblies 1.5 mm², 16 A

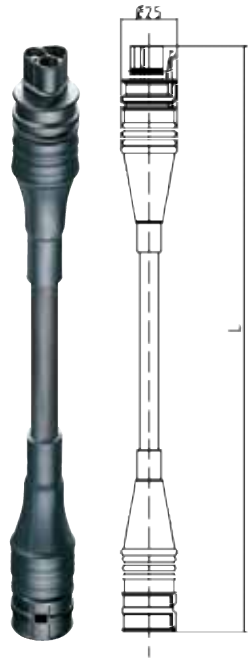
H05VV-F 2x1.5

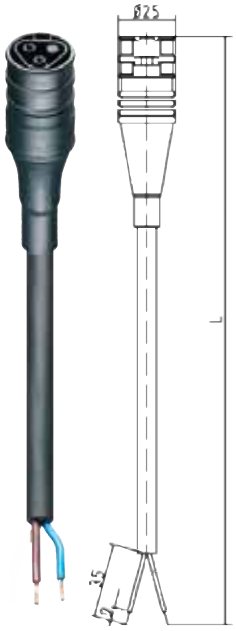
containing halogen

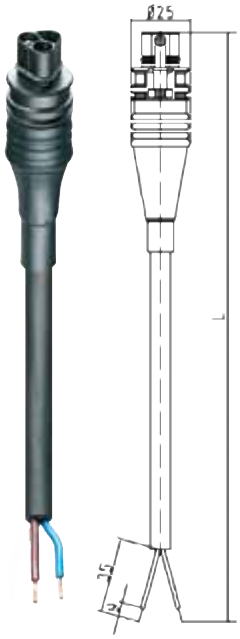


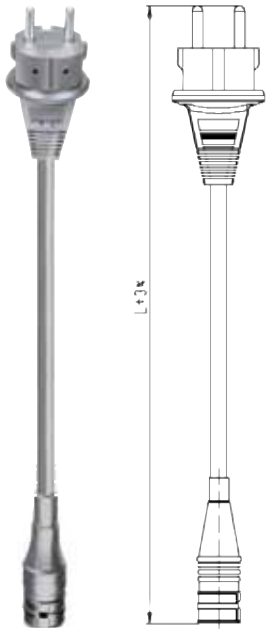
Protection class II:
N = BU
L = BN

50 V:
1 = BU
2 = BN









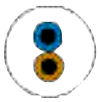
Cable[1] and shrinkage tube Color black	**Female – Male** Extension cable Locking device: yes	**Female – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm Locking device: possible	**Male – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm Locking device: yes	**European connector SKII** Power cable Female: RST Color: gray Cable color: gray
Application / Length[2] m	Part No.	Part No.	Part No.	Part No.
Protection class II, L, N 1.0	96.222.1000.1	96.222.1003.1	96.222.1004.1	
2.0	96.222.2000.1	96.222.2003.1	96.222.2004.1	
3.0	96.222.3000.1	96.222.3003.1	96.222.3004.1	
4.0	96.222.4000.1	96.222.4003.1	96.222.4004.1	
5.0	96.222.5000.1	96.222.5003.1	96.222.5004.1	
6.0	96.222.6000.1	96.222.6003.1	96.222.6004.1	
7.0	96.222.7000.1	96.222.7003.1	96.222.7004.1	
8.0	96.222.8000.1	96.222.8003.1	96.222.8004.1	
Protection class II 1.5				99.710.0000.7
2.5				99.711.0000.7
50 V 1, 2 1.0	96.222.1002.4	96.222.1007.4	96.222.1008.4	
2.0	96.222.2002.4	96.222.2007.4	96.222.2008.4	
3.0	96.222.3002.4	96.222.3007.4	96.222.3008.4	
4.0	96.222.4002.4	96.222.4007.4	96.222.4008.4	
5.0	96.222.5002.4	96.222.5007.4	96.222.5008.4	
6.0	96.222.6002.4	96.222.6007.4	96.222.6008.4	
7.0	96.222.7002.4	96.222.7007.4	96.222.7008.4	
8.0	96.222.8002.4	96.222.8007.4	96.222.8008.4	

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 1.5 mm², 16 A

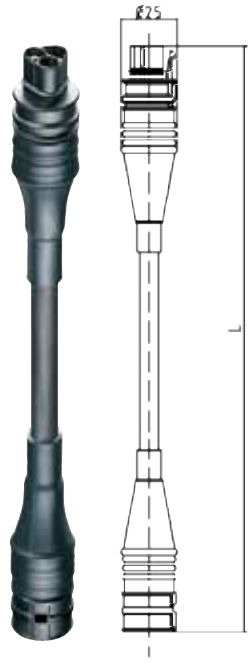
H07RN-F 2x1.5

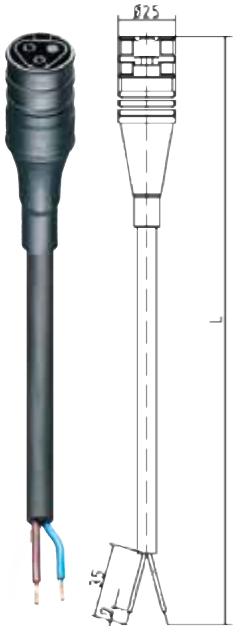
Insulating rubber compound

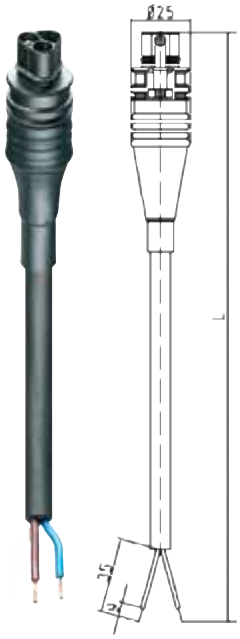


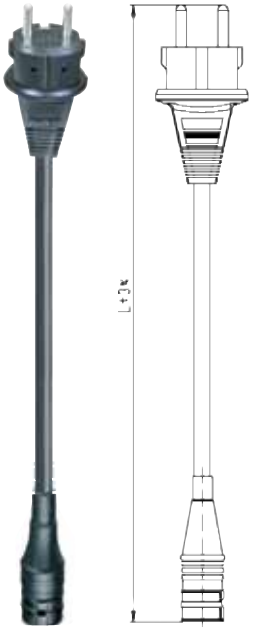
Protection class II:
N = BU
L = BN

50 V:
1 = BU
2 = BN









Cable[1] and shrinkage tube Color black	**Female – Male** Extension cable Locking device: yes	**Female – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm Locking device: possible	**Male – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm Locking device: yes	**European connector SKII** Power cable Female: RST Color: black Cable color: black
Application	Length[2] m	Part No.	Part No.	Part No.	Part No.
Protection class II L, N	1.0	96.222.1030.1	96.222.1033.1	96.222.1034.1	
	2.0	96.222.2030.1	96.222.2033.1	96.222.2034.1	
	3.0	96.222.3030.1	96.222.3033.1	96.222.3034.1	
	4.0	96.222.4030.1	96.222.4033.1	96.222.4034.1	
	5.0	96.222.5030.1	96.222.5033.1	96.222.5034.1	
	6.0	96.222.6030.1	96.222.6033.1	96.222.6034.1	
	7.0	96.222.7030.1	96.222.7033.1	96.222.7034.1	
	8.0	96.222.8030.1	96.222.8033.1	96.222.8034.1	
Protection class II	1.5				99.708.0000.7
	2.5				99.709.0000.7
50 V 1, 2	1.0	96.222.1032.4	96.222.1037.4	96.222.1038.4	
	2.0	96.222.2032.4	96.222.2037.4	96.222.2038.4	
	3.0	96.222.3032.4	96.222.3037.4	96.222.3038.4	
	4.0	96.222.4032.4	96.222.4037.4	96.222.4038.4	
	5.0	96.222.5032.4	96.222.5037.4	96.222.5038.4	
	6.0	96.222.6032.4	96.222.6037.4	96.222.6038.4	
	7.0	96.222.7032.4	96.222.7037.4	96.222.7038.4	
	8.0	96.222.8032.4	96.222.8037.4	96.222.8038.4	

[1] Other cables available on request
[2] Other lengths available on request

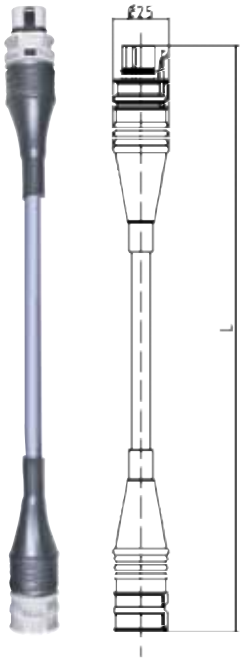
Cable assemblies 1.5 mm², 16 A, AS-i, 50 V (24 V auxiliary voltage)

Ölflex Classic 100 2x1.5

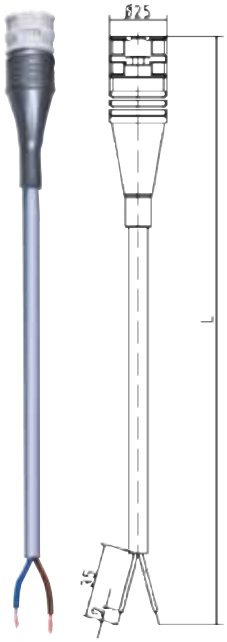
containing halogen

AS-i:
– = BN
+ = BU

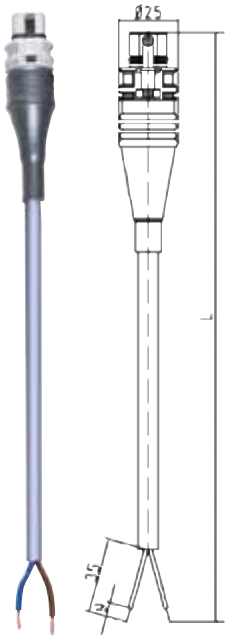
50 V:
1 = BU
2 = BN



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	possible



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Cable[1] color gray

Application	Length[2] m	Part No.	Part No.	Part No.
AS-i +, –	1.0	96.222.1092.8	96.222.1097.8	96.222.1098.8
	2.0	96.222.2092.8	96.222.2097.8	96.222.2098.8
	3.0	96.222.3092.8	96.222.3097.8	96.222.3098.8
	4.0	96.222.4092.8	96.222.4097.8	96.222.4098.8
	5.0	96.222.5092.8	96.222.5097.8	96.222.5098.8
	6.0	96.222.6092.8	96.222.6097.8	96.222.6098.8
	7.0	96.222.7092.8	96.222.7097.8	96.222.7098.8
	8.0	96.222.8092.8	96.222.8097.8	96.222.8098.8
50 V 1, 2	1.0	96.222.1092.4	96.222.1097.4	96.222.1098.4
	2.0	96.222.2092.4	96.222.2097.4	96.222.2098.4
	3.0	96.222.3092.4	96.222.3097.4	96.222.3098.4
	4.0	96.222.4092.4	96.222.4097.4	96.222.4098.4
	5.0	96.222.5092.4	96.222.5097.4	96.222.5098.4
	6.0	96.222.6092.4	96.222.6097.4	96.222.6098.4
	7.0	96.222.7092.4	96.222.7097.4	96.222.7098.4
	8.0	96.222.8092.4	96.222.8097.4	96.222.8098.4

[1] Other cables available on request
[2] Other lengths available on request

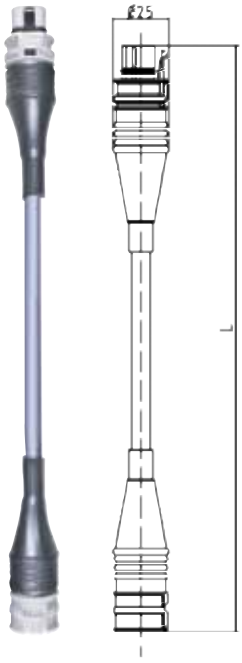
Cable assemblies 2.5 mm², 20 A, AS-i, 50 V (24 V auxiliary voltage)

Ölflex Classic 100 2x2.5

containing halogen

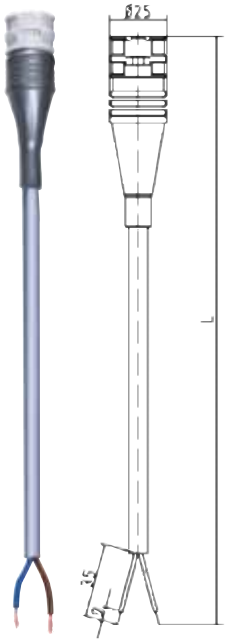
AS-i:
– = BN
+ = BU

50 V:
1 = BU
2 = BN



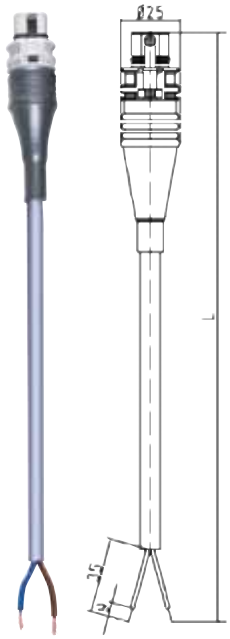
Female – Male

Extension cable	
Locking device	yes



Female – Free end

Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	possible



Male – Free end

Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

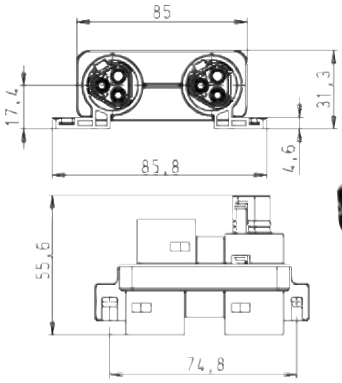
Cable[1] color gray

Application	Length[2] m	Female – Male Part No.	Female – Free end Part No.	Male – Free end Part No.
AS-i +, –	1.0	96.223.1092.8	96.223.1097.8	96.223.1098.8
	2.0	96.223.2092.8	96.223.2097.8	96.223.2098.8
	3.0	96.223.3092.8	96.223.3097.8	96.223.3098.8
	4.0	96.223.4092.8	96.223.4097.8	96.223.4098.8
	5.0	96.223.5092.8	96.223.5097.8	96.223.5098.8
	6.0	96.223.6092.8	96.223.6097.8	96.223.6098.8
	7.0	96.223.7092.8	96.223.7097.8	96.223.7098.8
	8.0	96.223.8092.8	96.223.8097.8	96.223.8098.8
50 V 1, 2	1.0	96.223.1092.4	96.223.1097.4	96.223.1098.4
	2.0	96.223.2092.4	96.223.2097.4	96.223.2098.4
	3.0	96.223.3092.4	96.223.3097.4	96.223.3098.4
	4.0	96.223.4092.4	96.223.4097.4	96.223.4098.4
	5.0	96.223.5092.4	96.223.5097.4	96.223.5098.4
	6.0	96.223.6092.4	96.223.6097.4	96.223.6098.4
	7.0	96.223.7092.4	96.223.7097.4	96.223.7098.4
	8.0	96.223.8092.4	96.223.8097.4	96.223.8098.4

[1] Other cables available on request
[2] Other lengths available on request

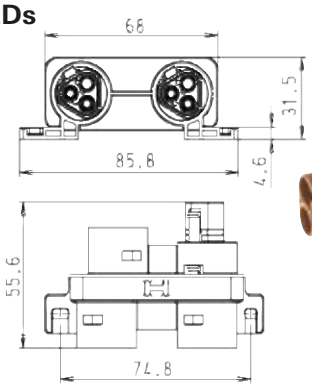
Distribution unit

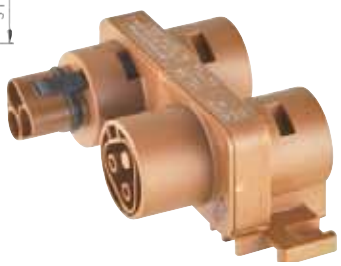
Distribution unit 1I/3O (parallel connection)



Application	Coding	Color	Part No.	Part No.
Circuit diagram			**with mounting option**	**without mounting option**
			Locking device: yes	Locking device: yes
			Input: 1, Male, 3 pole	Input: 1, Male, 3 pole
			Outputs: 3, Female, 3 pole	Outputs: 3, Female, 3 pole
Protection class II	L, N	black	96.020.0153.1	96.020.0253.1
		gray	96.020.0153.0	96.020.0253.0
50 V	1, 2	brown	96.020.0151.4	96.020.0251.4
AS-i	+, –	pebble gray	96.020.0150.8	96.020.0250.8

Series distribution unit 1I/3O for power LEDs





Application	Coding	Color	Part No.	Part No.
			with mounting option	**Jumper plug**
Circuit diagram				For jumpering of unused slots on the series distribution unit
50 V	1, 2	brown	99.910.0000.7	99.537.0000.7

Distribution unit

RST compact distribution unit 1I/3O

Name	Color	Part No.
RST compact distribution unit	black	on request

Detailed information about the distribution units available in section "Distribution units".

Dimensions	104 x 162 x 57,2 mm
Fitted as required with	M25 device connectors 2-pole
Input	1, RST20i2
Outputs	3, RST20i2
Prewired with	2.5 mm² (halogen-free)
Fastening options	yes

RST multi-distribution unit 1I/7O

Name	Color	Part No.
RST multi-distribution unit	black	on request

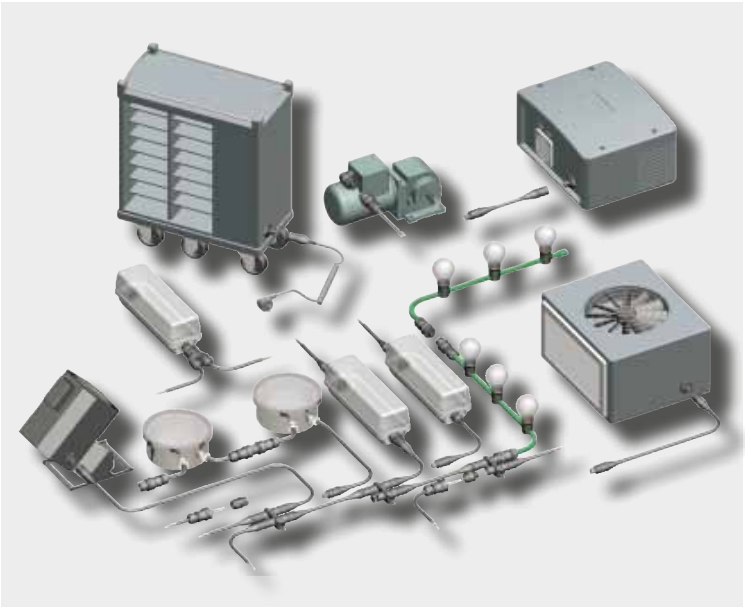
Detailed information about the distribution units available in section "Distribution units".

Dimensions	104 x 162 x 96 mm
Fitted as required with	M25 device connectors 2-pole
Input	1, RST20i2
Outputs	7, RST20i2
Prewired with	2.5 mm² (halogen-free)
Fuses	6.3 or 10 A can be integrated

RST 20i3

Standard version for power applications – multi-phase systems, 250 V switching applications and low voltage

Application example



General

The 3 pole connectors are available in four versions: the standard version for general power applications, a version for low voltage up to 50 V with ground conductor; another version for switching applications up to 250 V, and finally 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.

Coding

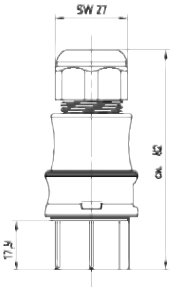
				Application	Power 250 V		Power 250/400 V	LV, signals bus 50 V	Switch. funct. 250 V
				Mechanical coding	L, N, ⏚		1, 2, ⏚	1, 2, ⏚	1, 2, 3
Name	**Description**	**Connection style**	**Strain relief housing**	**Connection points per pole**	gray	black	green	brown	light blue
Connectors	1 x cable entry	Screw Spring clamp	yes	1	■	■	■	■	■
	2 x cable entry	Screw Spring clamp	yes	2	■	■	■		
Distribution units	Distribution block 1 I/3 O				■	■	■	■	■
	RST compact distribution unit/multi-distribution unit				available on request	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	available on request
Device connectors	M16 device connector, modular, straight				■	■	■	■	■
	M16 device connector, modular, angled 7°				■	■	■	■	■
	M25 device connector, standard				■	■	■	■	■
	M20 device connector, standard				■	■	■	■	■
	M20 device connector, modular, angled				■	■	■	■	■
	M25 device connector, modular, angled				■	■	■	■	■
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	■	■	■	■	
	Connection cable Female – Free end				■	■	■	■	
	Extension cable Male – Female				■	■	■	■	
	Connection cable Female grounding conn.				■	■			

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

Female connector

Unmounted with cable gland.

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

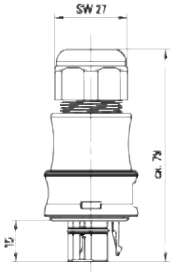


Application	Coding	Cable diameter in mm	Color	Part No. with spring clamp connection	Part No. with screw connection[1]
				Wire / mm² / Ferrules	Wire / mm² /
				rigid 0.5 – 2.5	rigid 0.75 – 6.0[2] without ferrules
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded without ferrules
Power 250 V	L, N, ⏚	6 – 10	gray	96.031.0053.0	96.031.4053.0
			black	96.031.0053.1	96.031.4053.1
		10 – 14	gray	96.031.0153.0	96.031.4153.0
			black	96.031.0153.1	96.031.4153.1
Power 250/400 V	1, 2, ⏚	6 – 10	green	96.031.0055.7	96.031.4055.7
		10 –14		96.031.0155.7	96.031.4155.7
50 V + ⏚	1, 2, ⏚	6 – 10	brown	96.031.0051.4	96.031.4051.4
		10 –14		96.031.0151.4	96.031.4151.4
Switch.func. 250 V	1, 2, 3	6 – 10	light blue	96.031.0053.9	96.031.4053.9
		10 –14		96.031.0153.9	96.031.4153.9

Male connector

Unmounted with cable gland and with locking device.

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



Application	Coding	Cable diameter in mm	Color	Part No. with spring clamp connection	Part No. with screw connection[1]
				Wire / mm² / Ferrules	Wire / mm² /
				rigid 0.5 – 2.5	rigid 0.75 – 6.0[2] without ferrules
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded without ferrules
Power 250 V	N, L, ⏚	6 – 10	gray	96.032.0053.0	96.032.4053.0
			black	96.032.0053.1	96.032.4053.1
		10 – 14	gray	96.032.0153.0	96.032.4153.0
			black	96.032.0153.1	96.032.4153.1
Power 250/400 V	2, 1, ⏚	6 – 10	green	96.032.0055.7	96.032.4055.7
		10 –14		96.032.0155.7	96.032.4155.7
50 V + ⏚	2, 1, ⏚	6 – 10	brown	96.032.0051.4	96.032.4051.4
		10 –14		96.032.0151.4	96.032.4151.4
Switch.func. 250 V	2, 1 3	6 – 10	light blue	96.032.0053.9	96.032.4053.9
		10 –14		96.032.0153.9	96.032.4153.9

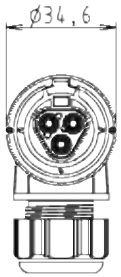
[1] With wire protection available on request
[2] With 6.0 mm² wires the pull and bending forces at the connector must be taken into consideration and compensated by suitable measures if required

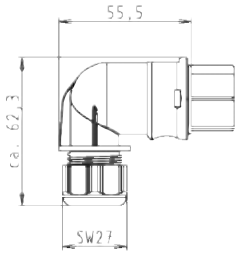
Connector, angled for cables of Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.
90° angle.

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



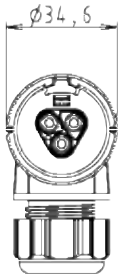


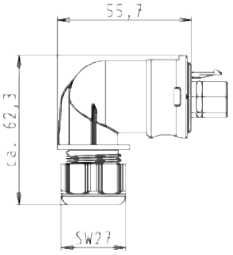
Application	Coding	Cable diameter in mm	Color	Part No. with spring clamp connection (Wire / mm² / Ferrules)	Part No. with screw connection[1] (Wire / mm² /)
				rigid 0.5 – 2.5	rigid 0.75 – 6.0[2] without ferrules
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0[2] without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded 0.75 – 6.0[2] without ferrules
Power 250 V	L, N, ⏚	6 – 10	gray	96.033.0053.0	96.033.4053.0
			black	96.033.0053.1	96.033.4053.1
		10 – 14	gray	96.033.0153.0	96.033.4153.0
			black	96.033.0153.1	96.033.4153.1
Power 250/400 V	1, 2, ⏚	6 – 10	green	96.033.0055.7	96.033.4055.7
		10 –14		96.033.0155.7	96.033.4155.7
50 V + ⏚	1, 2, ⏚	6 – 10	brown	96.033.0051.4	96.033.4051.4
		10 –14		96.033.0151.4	96.033.4151.4
Switch.func. 250 V	1, 2, 3	6 – 10	light blue	96.033.0053.9	96.033.4053.9
		10 –14		96.033.0153.9	96.033.4153.9

Male connector

Unmounted with cable gland and with locking device. 90° angle.

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





Application	Coding	Cable diameter in mm	Color	Part No. with spring clamp connection (Wire / mm² / Ferrules)	Part No. with screw connection[1] (Wire / mm² /)
				rigid 0.5 – 2.5	rigid 0.75 – 6.0[2] without ferrules
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0[2] without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded 0.75 – 6.0[2] without ferrules
Power 250 V	N, L, ⏚	6 – 10	gray	96.034.0053.0	96.034.4053.0
			black	96.034.0053.1	96.034.4053.1
		10 – 14	gray	96.034.0153.0	96.034.4153.0
			black	96.034.0153.1	96.034.4153.1
Power 250/400 V	2, 1, ⏚	6 – 10	green	96.034.0055.7	96.034.4055.7
		10 –14		96.034.0155.7	96.034.4155.7
50 V + ⏚	2, 1 ⏚	6 – 10	brown	96.034.0051.4	96.034.4051.4
		10 –14		96.034.0151.4	96.034.4151.4
Switch.func. 250 V	2, 1, 3	6 – 10	light blue	96.034.0053.9	96.034.4053.9
		10 –14		96.034.0153.9	96.034.4153.9

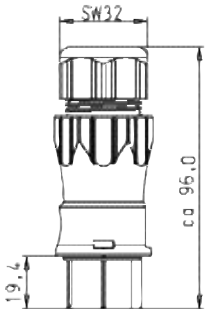
[1] With wire protection available on request
[2] With 6.0 mm² wires, the pull and bending forces at the connector must be taken into consideration and compensated by suitable measures if required

Connector for cables of Ø 13 – 18 mm

Female connector

Unmounted with cable gland.

See Technical Data for sheath and insulation strip lengths.

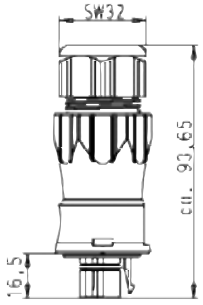


Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire mm² rigid / fine-stranded / stranded 0.75 – 6.0[2] without ferrules
Power 250 V	L, N, ⏚	13 –18	gray black	96.031.4553.0 96.031.4553.1
Power 250/400 V	1, 2, ⏚	13 –18	green	96.031.4555.7

Male connector

Unmounted with cable gland and with locking device.

See Technical Data for sheath and insulation strip lengths.



Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire mm² rigid / fine-stranded / stranded 0.75 – 6.0[2] without ferrules
Power 250 V	N, L, ⏚	13 –18	gray black	96.032.4553.0 96.032.4553.1
Power 250/400 V	2, 1, ⏚	13 –18	green	96.032.4555.7

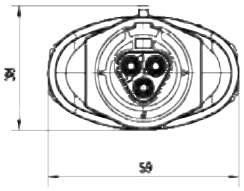
[1] With wire protection available on request
[2] With 6.0 mm² wires, the pull and bending forces at the connector must be taken into consideration and compensated by suitable measures if required

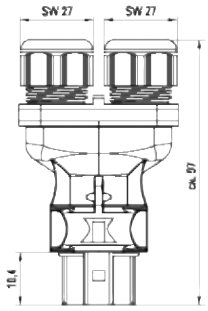
Splitter connector

Female connector

Unmounted with cable gland.

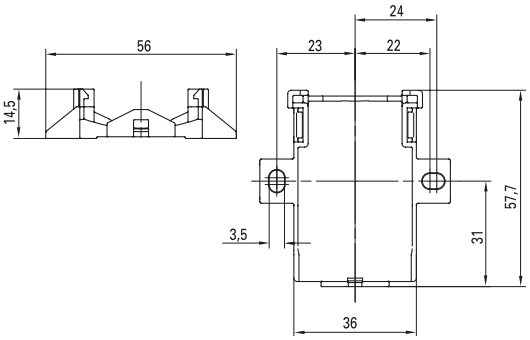
See the Technical Data for insulation strip lengths as well as the ferrules to be used.





Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
				with spring clamp connection	**with screw connection**[1]
				Wire / mm² / Ferrules	Wire / mm² /
				rigid 0.5 – 2.5	rigid
				fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 2.5 without ferrules
				stranded 0.75 – 1.5 with ferrules	stranded without ferrules
Power 250 V	L, N, ⏚	6 – 10	gray	96.031.0253.0	96.031.4253.0
			black	96.031.0253.1	96.031.4253.1
		10 – 14	gray	96.031.0353.0	96.031.4353.0
			black	96.031.0353.1	96.031.4353.1
Power 250/400 V	1, 2, ⏚	6 – 10	green	96.031.0255.7	96.031.4255.7
		10 – 14		96.031.0355.7	96.031.4355.7

Mounting plate
For splitter connectors



Color	Part No.
gray	01.006.1553.0
black	01.006.1553.1

[1] With wire protection available on request

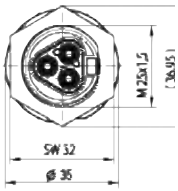
M 25 device connector, standard

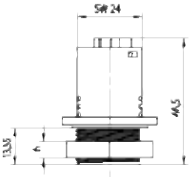
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.

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

For spacer rings for unlocking at the device connectors, see Accessories.



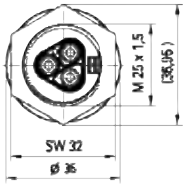


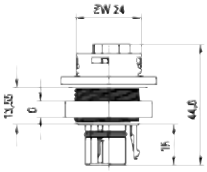
Application	Coding	Color	Part No.	Part No.
			with spring clamp connection	**with screw connection**
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M25 x 1.5	Thread M25 x 1.5
			Gland outside	Gland outside
Power 250 V	L, N, ⏚	gray black	96.031.1053.0 96.031.1053.1	96.031.5053.0 96.031.5053.1
Power 250/400V	1, 2, ⏚	green	96.031.1055.7	96.031.5055.7
50 V + ⏚	1, 2, ⏚	brown	96.031.1051.4	96.031.5051.4
Switch. funct. 250 V	1, 2, 3	light blue	96.031.1053.9	96.031.5053.9

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside. With locking device.

See the Technical Data for insulation strip lengths.





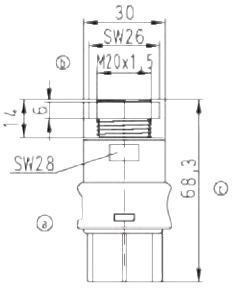
Application	Coding	Color	Part No.	Part No.
			with spring clamp connection	**with screw connection**
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M25 x 1.5	Thread M25 x 1.5
			Gland outside	Gland outside
Power 250 V	N, L, ⏚	gray black	96.032.1053.0 96.032.1053.1	96.032.5053.0 96.032.5053.1
Power 250/400V	2, 1, ⏚	green	96.032.1055.7	96.032.5055.7
50 V + ⏚	2, 1, ⏚	brown	96.032.1051.4	96.032.5051.4
Switch. funct. 250 V	2, 1, 3	light blue	96.032.1053.9	96.032.5053.9

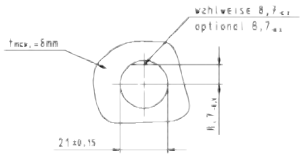
M 20 device connector, modular, straight

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

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



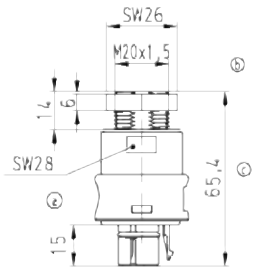


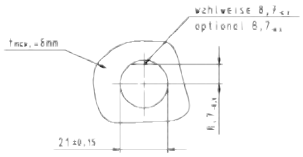
Application	Coding	Color	Part No. with spring clamp connection	Part No. with screw connection
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M20 x 1.5	Thread M20 x 1.5
			Gland inside	Gland inside
Power 250 V	L, N, ⏚	gray black	96.031.2053.0 96.031.2053.1	96.031.6053.0 96.031.6053.1
Power 250/400V	1, 2, ⏚	green	96.031.2055.7	96.031.6055.7
50 V + ⏚	1, 2, ⏚	brown	96.031.2051.4	96.031.6051.4
Switch. funct. 250 V	1, 2, 3	light blue	96.031.2053.9	96.031.6053.9

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

See the Technical Data for insulation strip lengths.





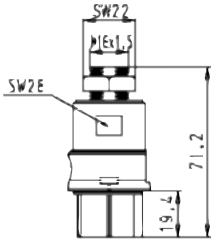
Application	Coding	Color	Part No. with spring clamp connection	Part No. with screw connection
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M20 x 1.5	Thread M20 x 1.5
			Gland inside	Gland inside
Power 250 V	N, L, ⏚	gray black	96.032.2053.0 96.032.2053.1	96.032.6053.0 96.032.6053.1
Power 250/400V	2, 1, ⏚	green	96.032.2055.7	96.032.6055.7
50 V + ⏚	2, 1, ⏚	brown	96.032.2051.4	96.032.6051.4
Switch. funct. 250 V	2, 1, 3	light blue	96.032.2053.9	96.032.6053.9

M 16 device connector, modular, straight

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. .

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

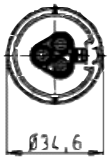


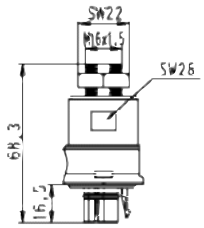
Application	Coding	Color	Part No. with spring clamp connection	Part No. with screw connection
			Wire / mm² / Ferrules	Wire / mm² /
			rigid: 0.5 – 2.5	rigid
			fine-stranded: 0.5 – 1.5 with ferrules	fine-stranded: 0.75 – 6.0 without ferrules
			stranded: 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles: 2	Term. poles: 1
			Thread: M16 x 1.5	Thread: M16 x 1.5
			Gland: inside	Gland: inside
Power 250 V	L, N, ⏚	gray black	96.031.2153.0 96.031.2153.1	96.031.6153.0 96.031.6153.1
Power 250/400V	1, 2, ⏚	green	96.031.2155.7	96.031.6155.7
50 V + ⏚	1, 2, ⏚	brown	96.031.2151.4	96.031.6151.4
Switch. funct. 250 V	1, 2, 3	light blue	96.031.2153.9	96.031.6153.9

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

See the Technical Data for insulation strip lengths.





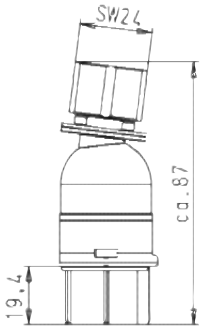
Application	Coding	Color	Part No. with spring clamp connection	Part No. with screw connection
			Wire / mm² / Ferrules	Wire / mm² /
			rigid: 0.5 – 2.5	rigid
			fine-stranded: 0.5 – 1.5 with ferrules	fine-stranded: 0.75 – 6.0 without ferrules
			stranded: 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles: 2	Term. poles: 1
			Thread: M16 x 1.5	Thread: M16 x 1.5
			Gland: inside	Gland: inside
Power 250 V	N, L, ⏚	gray black	96.032.2153.0 96.032.2153.1	96.032.6153.0 96.032.6153.1
Power 250/400V	2, 1, ⏚	green	96.032.2155.7	96.032.6155.7
50 V + ⏚	2, 1, ⏚	brown	96.032.2151.4	96.032.6151.4
Switch. funct. 250 V	2, 1, 3	light blue	96.032.2153.9	96.032.6153.9

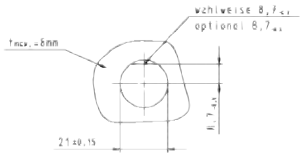
M 16 device connector, modular, 7° angle

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
Angled 7°, thread M16.

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





Application	Coding	Color	Part No. with spring clamp connection	Part No. with screw connection
Power 250 V	L, N, ⏚	gray black	96.035.2153.0 96.035.2153.1	96.035.6153.0 96.035.6153.1
Power 250/400V	1, 2, ⏚	green	96.035.2155.7	96.035.6155.7
50 V + ⏚	1, 2, ⏚	brown	96.035.2151.4	96.035.6151.4
Switch. funct. 250 V	1, 2, 3	light blue	96.035.2153.9	96.035.6153.9

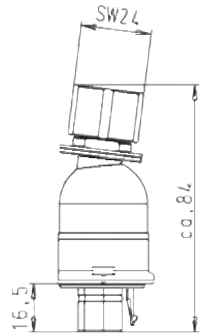
with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M16 x 1.5	
Gland	inside	

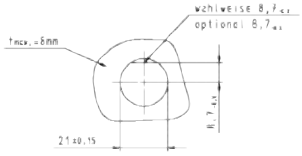
with screw connection		
Wire	mm²	
rigid	0.75 – 6.0	without ferrules
fine-stranded		without ferrules
stranded		
Term. poles	1	
Thread	M16 x 1.5	
Gland	inside	

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.
Angled 7°, thread M16.

See the Technical Data for insulation strip lengths.





Application	Coding	Color	Part No. with spring clamp connection	Part No. with screw connection
Power 250 V	N, L, ⏚	gray black	96.036.2153.0 96.036.2153.1	96.036.6153.0 96.036.6153.1
Power 250/400V	2, 1, ⏚	green	96.036.2155.7	96.036.6155.7
50 V + ⏚	2, 1, ⏚	brown	96.036.2151.4	96.036.6151.4
Switch. funct. 250 V	2, 1, 3	light blue	96.036.2153.9	96.036.6153.9

with spring clamp connection		
Wire	mm²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M16 x 1.5	
Gland	inside	

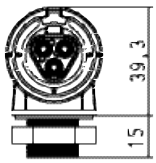
with screw connection		
Wire	mm²	
rigid	0.75 – 6.0	without ferrules
fine-stranded		without ferrules
stranded		
Term. poles	1	
Thread	M16 x 1.5	
Gland	inside	

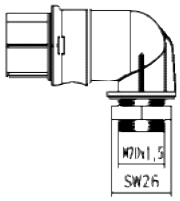
M 20 device connector, modular, angled

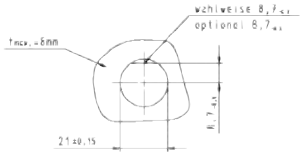
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

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





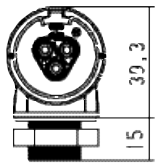


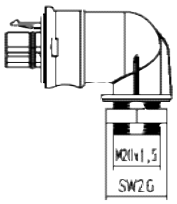
Application	Coding	Color	Part No.	Part No.
			with spring clamp connection	**with screw connection**
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M20 x 1.5	Thread M20 x 1,.5
			Gland inside	Gland inside
Power 250 V	L, N, ⏚	gray black	96.033.2053.0 96.033.2053.1	96.033.6053.0 96.033.6053.1
Power 250/400V	1, 2, ⏚	green	96.033.2055.7	96.033.6055.7
50 V + ⏚	1, 2, ⏚	brown	96.033.2051.4	96.033.6051.4
Switch. funct. 250 V	1, 2, 3	light blue	96.033.2053.9	96.033.6053.9

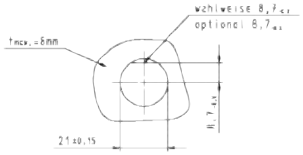
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. .
With locking device.

See the Technical Data for insulation strip lengths.







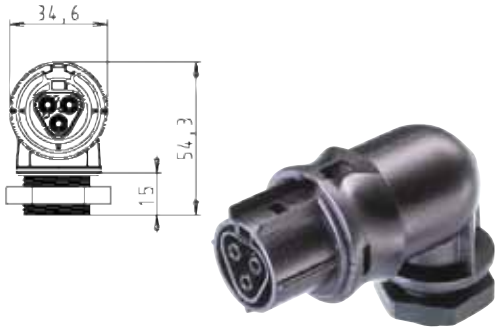
Application	Coding	Color	Part No.	Part No.
			with spring clamp connection	**with screw connection**
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M20 x 1.5	Thread M20 x 1.5
			Gland inside	Gland inside
Power 250 V	N, L, ⏚	gray black	96.034.2053.0 96.034.2053.1	96.034.6053.0 96.034.6053.1
Power 250/400V	2, 1, ⏚	green	96.034.2055.7	96.034.6055.7
50 V + ⏚	2, 1, ⏚	brown	96.034.2051.4	96.034.6051.4
Switch. funct. 250 V	2, 1, 3	light blue	96.034.2053.9	96.034.6053.9

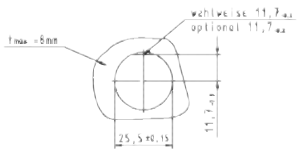
M 25 device connector, modular, angled

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

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



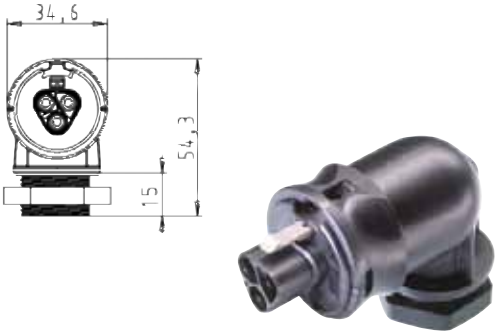


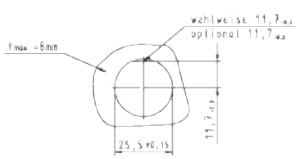
Application	Coding	Color	Part No.	Part No.
			with spring clamp connection	**with screw connection**
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M25 x 1.5	Thread M25 x 1.5
			Gland inside	Gland inside
Power 250 V	L, N, ⏚	gray black	96.033.2253.0 96.033.2253.1	96.033.6253.0 96.033.6253.1
Power 250/400V	1, 2, ⏚	green	96.033.2255.7	96.033.6255.7
50 V + ⏚	1, 2, ⏚	brown	96.033.2251.4	96.033.6251.4
Switch. funct. 250 V	1, 2, 3	light blue	96.033.2253.9	96.033.6253.9

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

See the Technical Data for insulation strip lengths.



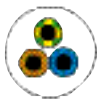


Application	Coding	Color	Part No.	Part No.
			with spring clamp connection	**with screw connection**
			Wire / mm² / Ferrules	Wire / mm² /
			rigid 0.5 – 2.5	rigid
			fine-stranded 0.5 – 1.5 with ferrules	fine-stranded 0.75 – 6.0 without ferrules
			stranded 0.75 – 1.5 with ferrules	stranded without ferrules
			Term. poles 2	Term. poles 1
			Thread M25 x 1.5	Thread M25 x 1.5
			Gland inside	Gland inside
Power 250 V	N, L, ⏚	gray black	96.034.2253.0 96.034.2253.1	96.034.6253.0 96.034.6253.1
Power 250/400V	2, 1, ⏚	green	96.034.2255.7	96.034.6255.7
50 V + ⏚	2, 1, ⏚	brown	96.034.2251.4	96.034.6251.4
Switch. funct. 250 V	2, 1, 3	light blue	96.034.2253.9	96.034.6253.9

Cable assemblies 1.5 mm², 16 A

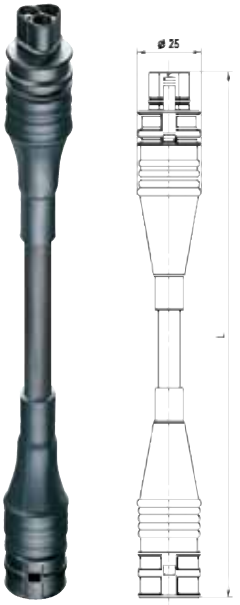
H05VV-F 3G1.5

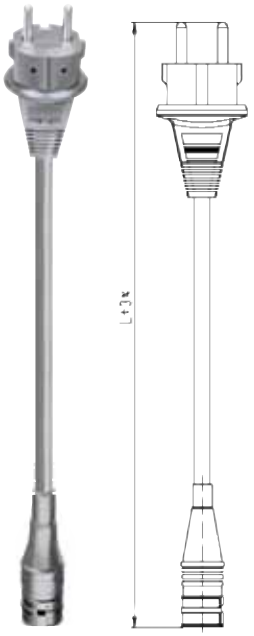
containing halogen



Power 250V:
⏚ = GN/YE
N = BU
L = BN

Power 250/400V:
⏚ = GN/YE
1 = BU
2 = BN





Cable[1] and shrinkage tube	**Female – Male**	**Female – Free end**	**Male – Free end**	**SCHUKO plug – RST female**
	Extension cable	Connection cable	Connection cable	Power cable
	Locking device: yes	Wire ends: ultrason. welded	Wire ends: ultrason. welded	Female: RST
		Sheath strip length: 35 mm	Sheath strip length: 35 mm	Color: gray
		Insul. strip length: 9 mm	Insul. strip length: 9 mm	Cable color: gray
			Locking device: yes	

Color: black

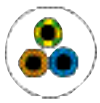
Application	Length[2] m	Part No.	Part No.	Part No.	Part No.
Power 250 V L, N, ⏚	1.0	96.232.1000.1	96.232.1003.1	96.232.1004.1	
	2.0	96.232.2000.1	96.232.2003.1	96.232.2004.1	
	3.0	96.232.3000.1	96.232.3003.1	96.232.3004.1	
	4.0	96.232.4000.1	96.232.4003.1	96.232.4004.1	
	5.0	96.232.5000.1	96.232.5003.1	96.232.5004.1	
	6.0	96.232.6000.1	96.232.6003.1	96.232.6004.1	
	7.0	96.232.7000.1	96.232.7003.1	96.232.7004.1	
	8.0	96.232.8000.1	96.232.8003.1	96.232.8004.1	
Grounding connector	1.5				99.714.0000.7
	2.5				99.715.0000.7
Power 250 V/400 V 1, 2, ⏚	1.0	96.232.1001.7	96.232.1005.7	96.232.1006.7	
	2.0	96.232.2001.7	96.232.2005.7	96.232.2006.7	
	3.0	96.232.3001.7	96.232.3005.7	96.232.3006.7	
	4.0	96.232.4001.7	96.232.4005.7	96.232.4006.7	
	5.0	96.232.5001.7	96.232.5005.7	96.232.5006.7	
	6.0	96.232.6001.7	96.232.6005.7	96.232.6006.7	
	7.0	96.232.7001.7	96.232.7005.7	96.232.7006.7	
	8.0	96.232.8001.7	96.232.8005.7	96.232.8006.7	

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 1.5 mm², 16 A

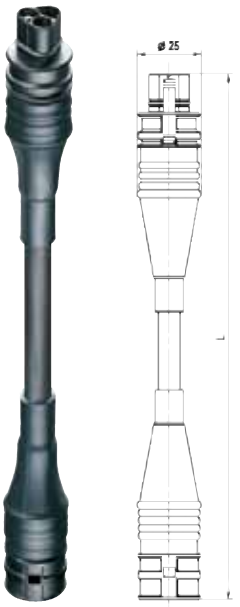
H07RN-F 3G1.5

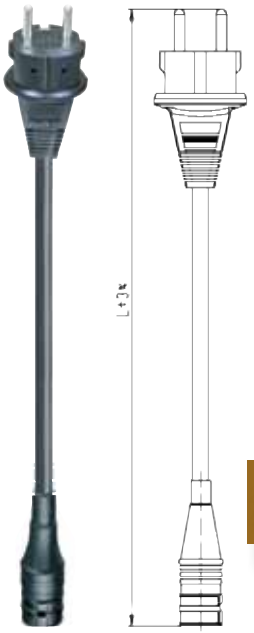
Insulating rubber compound



Power 250V:
⏚ = GN/YE
N = BU
L = BN

Power 250/400V:
⏚ = GN/YE
1 = BU
2 = BN





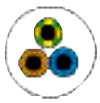
Cable[1] and shrinkage tube Color: black	**Female – Male** Extension cable Locking device: yes	**Female – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm	**Male – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm Locking device: yes	**SCHUKO plug – RST female** Power cable Female: RST Color: black Cable color: black
Application / Length[2] m	Part No.	Part No.	Part No.	Part No.
Power 250 V L, N, ⏚ 1.0	96.232.1030.1	96.232.1033.1	96.232.1034.1	
2.0	96.232.2030.1	96.232.2033.1	96.232.2034.1	
3.0	96.232.3030.1	96.232.3033.1	96.232.3034.1	
4.0	96.232.4030.1	96.232.4033.1	96.232.4034.1	
5.0	96.232.5030.1	96.232.5033.1	96.232.5034.1	
6.0	96.232.6030.1	96.232.6033.1	96.232.6034.1	
7.0	96.232.7030.1	96.232.7033.1	96.232.7034.1	
8.0	96.232.8030.1	96.232.8033.1	96.232.8034.1	
Grounding connector 1.5				99.712.0000.7
2.5				99.713.0000.7
4.0				99.716.0000.7
8.0				99.717.0000.7
Power 250 V/400 V 1, 2, ⏚ 1.0	96.232.1031.7	96.232.1035.7	96.232.1036.7	
2.0	96.232.2031.7	96.232.2035.7	96.232.2036.7	
3.0	96.232.3031.7	96.232.3035.7	96.232.3036.7	
4.0	96.232.4031.7	96.232.4035.7	96.232.4036.7	
5.0	96.232.5031.7	96.232.5035.7	96.232.5036.7	
6.0	96.232.6031.7	96.232.6035.7	96.232.6036.7	
7.0	96.232.7031.7	96.232.7035.7	96.232.7036.7	
8.0	96.232.8031.7	96.232.8035.7	96.232.8036.7	

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 2.5 mm², 20 A

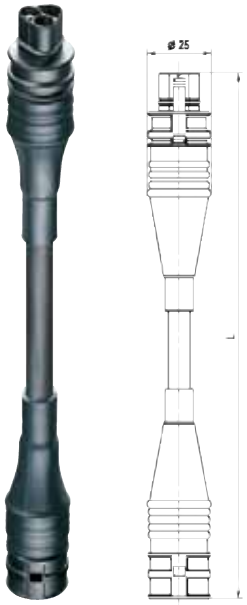
H05VV-F 3G2.5

containing halogen



Power 250V:
⏚ = GN/YE
N = BU
L = BN

Power 250/400V:
⏚ = GN/YE
1 = BU
2 = BN



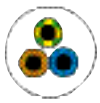
Cable[1] and shrinkage tube Color: black	**Female – Male** Extension cable Locking device: yes	**Female – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm	**Male – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm Locking device: yes
Application	Length[2] m	Part No.	Part No.	Part No.
Power 250 V L, N, ⏚ black	1.0	96.233.1000.1	96.233.1003.1	96.233.1004.1
	2.0	96.233.2000.1	96.233.2003.1	96.233.2004.1
	3.0	96.233.3000.1	96.233.3003.1	96.233.3004.1
	4.0	96.233.4000.1	96.233.4003.1	96.233.4004.1
	5.0	96.233.5000.1	96.233.5003.1	96.233.5004.1
	6.0	96.233.6000.1	96.233.6003.1	96.233.6004.1
	7.0	96.233.7000.1	96.233.7003.1	96.233.7004.1
	8.0	96.233.8000.1	96.233.8003.1	96.233.8004.1
Power 250 V/400 V 1, 2, ⏚	1.0	96.233.1001.7	96.233.1005.7	96.233.1006.7
	2.0	96.233.2001.7	96.233.2005.7	96.233.2006.7
	3.0	96.233.3001.7	96.233.3005.7	96.233.3006.7
	4.0	96.233.4001.7	96.233.4005.7	96.233.4006.7
	5.0	96.233.5001.7	96.233.5005.7	96.233.5006.7
	6.0	96.233.6001.7	96.233.6005.7	96.233.6006.7
	7.0	96.233.7001.7	96.233.7005.7	96.233.7006.7
	8.0	96.233.8001.7	96.233.8005.7	96.233.8006.7

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 2.5 mm², 20 A

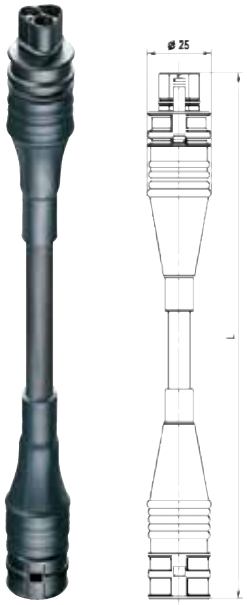
H07RN-F 3G2.5

Insulating rubber compound



Power 250V:
⏚ = GN/YE
N = BU
L = BN

Power 250/400V:
⏚ = GN/YE
1 = BU
2 = BN

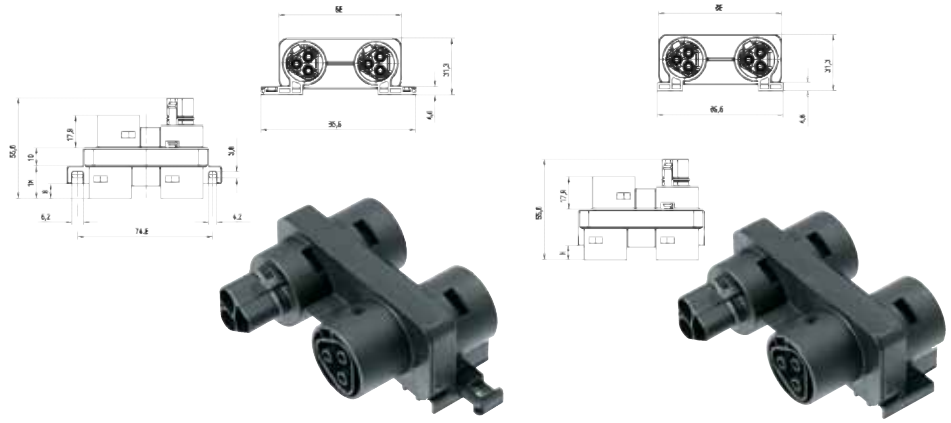


Cable[1] and shrinkage tube Color: black	**Female – Male** Extension cable Locking device: yes	**Female – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm	**Male – Free end** Connection cable Wire ends: ultrason. welded Sheath strip length: 35 mm Insul. strip length: 9 mm Locking device: yes
Application / Length[2] m	Part No.	Part No.	Part No.
Power 250 V L, N, ⏚ black			
1.0	96.233.1030.1	96.233.1033.1	96.233.1034.1
2.0	96.233.2030.1	96.233.2033.1	96.233.2034.1
3.0	96.233.3030.1	96.233.3033.1	96.233.3034.1
4.0	96.233.4030.1	96.233.4033.1	96.233.4034.1
5.0	96.233.5030.1	96.233.5033.1	96.233.5034.1
6.0	96.233.6030.1	96.233.6033.1	96.233.6034.1
7.0	96.233.7030.1	96.233.7033.1	96.233.7034.1
8.0	96.233.8030.1	96.233.8033.1	96.233.8034.1
Power 250 V/400 V 1, 2, ⏚			
1.0	96.233.1031.7	96.233.1035.7	96.233.1036.7
2.0	96.233.2031.7	96.233.2035.7	96.233.2036.7
3.0	96.233.3031.7	96.233.3035.7	96.233.3036.7
4.0	96.233.4031.7	96.233.4035.7	96.233.4036.7
5.0	96.233.5031.7	96.233.5035.7	96.233.5036.7
6.0	96.233.6031.7	96.233.6035.7	96.233.6036.7
7.0	96.233.7031.7	96.233.7035.7	96.233.7036.7
8.0	96.233.8031.7	96.233.8035.7	96.233.8036.7

[1] Other cables available on request
[2] Other lengths available on request

Distribution units

Distribution unit 1I/3O



Application	Coding	Color	Part No.	Part No.
			with mounting option	**without mounting option**
			Locking device: yes	Locking device: yes
			Input: 1, Male ,3 pole	Input: 1, Male ,3 pole
			Outputs: 3, Female, 3 pole	Outputs: 3, Female, 3 pole
Power 250 V	L, N, ⏚	gray black	96.030.0153.0 96.030.0153.1	96.030.0253.0 96.030.0253.1
Power 250/400 V	1, 2, ⏚	green	96.030.0155.7	96.030.0255.7
50 V + ⏚	1, 2, ⏚	brown	96.030.0151.4	96.030.0251.4

Distribution unit

RST compact distribution unit 1I/3O

Name	Color	Part No.
RST compact distribution unit	black	99.906.0000.7

Detailed information about the distribution units available in section "Distribution units".

Dimensions (W x L x H)	104 x 162 x 57.2 mm
Fitted as required with	M25 device connectors 3 pole
Input	1, RST20i3
Outputs	3, RST20i3
Prewired with	2.5 mm² (halogen-free)
Fastening options	yes

RST multi-distribution unit 1I/7O

Name	Color	Part No.
RST multi-distribution unit	black	99.929.0000.7

Detailed information about the distribution units available in section "Distribution units".

Dimensions (W x L x H)	104 x 162 x 96 mm
Fitted as required with	M25 device connectors 3 pole
Input	1, RST20i3
Outputs	7, RST20i3
Prewired with	2.5 mm² (halogen-free)
Fastening options	yes

Accessories – Cover pieces

Female connector
2 to 3 pole

Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 2 – 3 pole	Pole: 2 – 3 pole
	Safe locking device: unused male connectors	Safe locking device: unused male connectors
gray	05.564.4453.0	99.415.6205.2
black	05.564.4453.1	99.416.6205.2

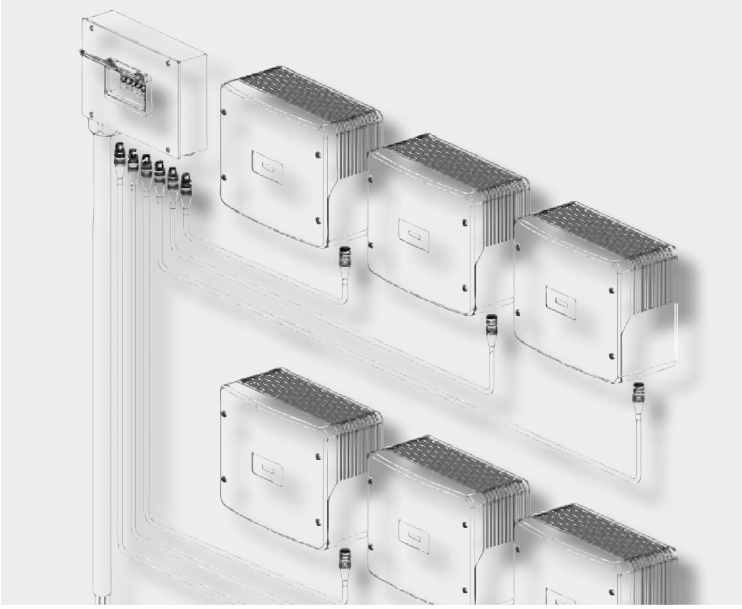
Male connector
2 to 3 pole

Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 2 – 3 pole	Pole: 2 – 3 pole
	Safe locking device: unused female connectors	Safe locking device: unused female connectors
gray	Z5.564.4553.0	99.413.6205.2
black	Z5.564.4553.1	99.414.6205.2

RST 25i3

Solar applications for systems up to 32 A for single-phase supply 3 pole

Application example



General

The system is specially adapted to the requirements of solar technology.
The connectors can be loaded with a maximum of 32 A on two contacts (L, N) and are used for single-phase supply with ENS.
Special distribution boxes are used to bundle the electrical power of up to 6 inverters and thus complete 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.

Features:

- Fast mounting through easy handling
- UV-resistant
- Rated current up to 32 A
- Cross-sections up to 6 mm²
- Degree of protection IP 65 … IP 68 (on request)

Coding

				Application	Single-phase supply 250 V, 32 A
				Mechanical coding	L, N, ⏚
Name	**Description**	**Connection style**	**Strain relief housing**	**Connection points per pole**	concrete gray
Connectors	1 x cable entry	Screw Spring clamp	yes	1	
Distribution units	Distribution box RST RAN Solar				
	Distribution box RST Solar				
Device connectors	M25 device connector, standard				
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	
	Connection cable Female – Free end				
	Extension cable Male – Female				

Connectors, 32 A

Female connector

Application	Coding	Color	Part No.	Part No.
			Screw technology for cable Ø 10 –14 mm	**Screw technology for cable Ø 13 –18 mm**
			Wire / mm² / solid, fine-stranded / up to 6.0[2] / without ferrules	Wire / mm² / solid, fine-stranded / up to 6.0[2] / without ferrules
Single-phase supply 250 V	L, N, ⏚	concrete gray/ black	96.031.4154.3	96.031.4554.3

Male connector

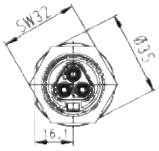
Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
				Screw technology for cable Ø 10 –14 mm	**Screw technology for cable Ø 13 –18 mm**
				Wire / mm² / solid, fine-stranded / up to 6.0[2] / without ferrules	Wire / mm² / solid, fine-stranded / up to 6.0[2] / without ferrules
				Locking device / yes	Locking device / yes
Single-phase supply 250 V	L, N, ⏚		concrete gray/ black	96.032.4154.3	96.032.4554.3

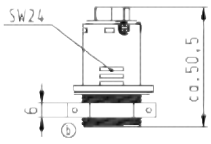
[1] Larger cross-sections available on request
[2] With 6.0 mm² wires, the pull and bending forces at the connector must be taken into consideration and compensated by suitable measures if required

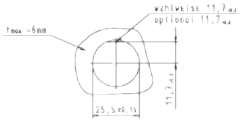
M 25 device connector, 32 A

Female connector
with sealing option

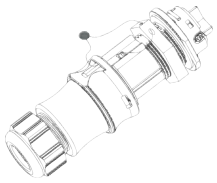
For spacer rings for unlocking at the device connector, see Accessories.



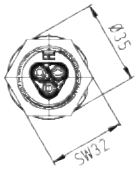


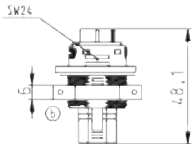
Application	Coding	Color	Part No.
			
Single-phase supply 250 V	L, N, ⏚	concrete gray/ black	96.031.5054.3

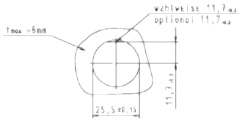
Screw technology		
Wire	mm²	
solid	up to 6.0	
fine-stranded		without ferrules
Locking device	yes	



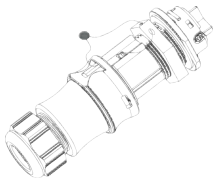
Male connector
with sealing option





Application	Coding	Color	Part No.
			
Single-phase supply 250 V	L, N, ⏚	concrete gray/ black	96.032.5054.3

Screw technology		
Wire	mm²	
solid	up to 6.0	
fine-stranded		without ferrules
Locking device	yes	



Distribution unit

Distribution box RST RAN Solar

Name	Material	Part No.
RST RAN Solar	Sheet metal/ powder-coated	99.512.0000.7

Detailed information about the distribution units available in section "Distribution units".

Inputs	6 x RST25i3 / concrete gray coding
Cable gland	1 x M 40, 2 x M 20
Connector clamps	5 x 10 mm²
Circuit breakers	6 x B25
Dimensions in mm (L x W x H)	350 x 300 x 100 mm

Distribution box RST Solar

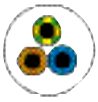
Distribution box RST Solar	Plastic	99.502.0000.7

Detailed information about the distribution units available in section "Distribution units".

Inputs	3 x RST 25i3 / concrete gray coding
Cable gland	1 x M 32, 2 x M 20
Connector clamps	5 x 10 mm²
Dimensions in mm (L x W x H)	180 x 180 x 90 mm

Cable assemblies, 4.0 mm², 25 A

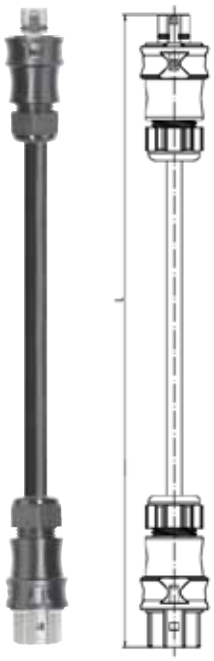
H05VV-F 3G4,0[1)]



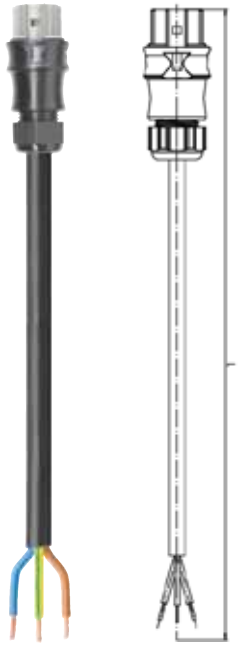
N = BU
L = BN
⏚ = GN/YE

The cable colors have been adapted to the new European standard HD 208 S2. The assignment corresponds to international recommendations.

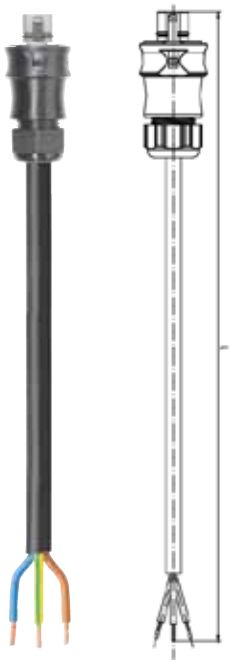
Cable: black
Coding: concrete gray/ black



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Cable diameter H05VV-F[3)]	10.5 – 13.1 mm



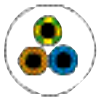
Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes
Cable diameter H05VV-F[3)]	10.5 – 13.1 mm

Application	Length[2)] m	Part No.	Part No.	Part No.
Single-phase supply 250V L, N, ⏚	1,0	96.834.1000.3	96.834.1003.3	96.834.1004.3
	1,5	96.834.1500.3	96.834.1503.3	96.834.1504.3
	2,0	96.834.2000.3	96.834.2003.3	96.834.2004.3
	2,5	96.834.2500.3	96.834.2503.3	96.834.2504.3
	3,0	96.834.3000.3	96.834.3003.3	96.834.3004.3
	3,5	96.834.3500.3	96.834.3503.3	96.834.3504.3
	4,0	96.834.4000.3	96.834.4003.3	96.834.4004.3

[1)] Other cables available on request
[2)] Other lengths available on request
[3)] According to VDE 0281/T5 and VDE 0288/T4

Cable assemblies, 4.0 mm², 25 A

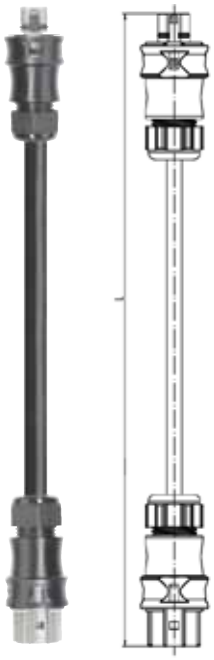
H07RN-F 3G4,0[1]



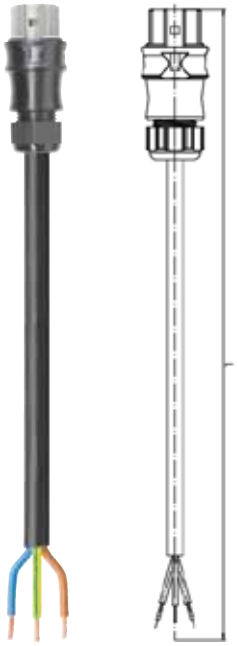
N = BU
L = BN
⏚ = GN/YE

The cable colors have been adapted to the new European standard HD 208 S2. The assignment corresponds to international recommendations.

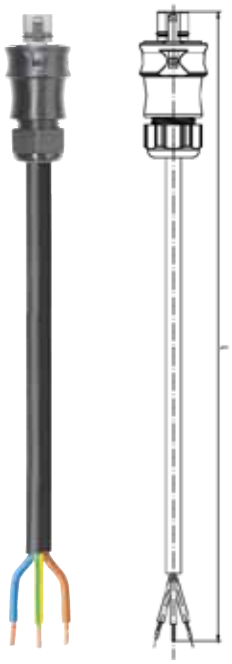
Cable: black
Coding: concrete gray/ black



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Cable diameter H07RN-F[3]	10.5 – 13.1 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes
Cable diameter H07RN-F[3]	10.5 – 13.1 mm

Application	Length[2] m	Part No.	Part No.	Part No.
Single-phase supply 250 V L, N, ⏚	1,0	96.834.1030.3	96.834.1033.3	96.834.1034.3
	1,5	96.834.1530.3	96.834.1533.3	96.834.1534.3
	2,0	96.834.2030.3	96.834.2033.3	96.834.2034.3
	2,5	96.834.2530.3	96.834.2533.3	96.834.2534.3
	3,0	96.834.3030.3	96.834.3033.3	96.834.3034.3
	3,5	96.834.3530.3	96.834.3533.3	96.834.3534.3
	4,0	96.834.4030.3	96.834.4033.3	96.834.4034.3

[1] Other cables available on request
[2] Other lengths available on request
[3] According to VDE 0281/T5 and VDE 0288/T4

RST 20i4

2 variations for connecting electrical drives or for laying AS-i and 24 V auxiliary voltage

Application example

General

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

Two codings are available: a black coding for connecting electrical drives, and a brown coding for laying AS-Interface and the 24 V auxiliary voltage together.

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	Power 250/400 V		AS-i / 24 V
				Mechanical coding	1, 2, 3, ⏚		1, 2, 3, 4
Name	**Description**	**Connection style**	**Strain relief housing**	**Connection points per pole**	gray	black	brown
Connectors	1 x cable entry	Screw Crimp	yes	1	■	■	■
	2 x cable entry	Screw	yes	1	■	■	■
Distribution unit	RST compact distribution unit/multi-distribution unit				available on request	available on request	available on request
	Individual distribution box				available on request	available on request	available on request
Device connectors	M16 device connector, modular, straight				■	■	■
	M16 device connector, modular, angled 7°				■	■	■
	M25 device connector, standard				■	■	■
	M20 device connector, standard				■	■	■
	M20 device connector, modular, angled				■	■	■
	M25 device connector, modular, angled				■	■	■
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	■	■	■
	Connection cable Female – Free end				■	■	■
	Extension cable Male – Female				■	■	■

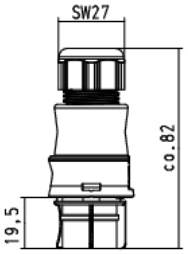
Connector for cables of Ø 6 –10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.



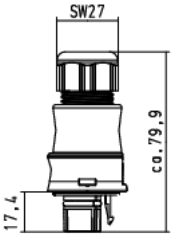
Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1]	Part No. with crimp connection (see Accessories)
				Wire / mm²	Wire / mm²
				rigid / fine-stranded / stranded: 0.75 – 4.0 without ferrules	rigid / fine-stranded / stranded: 0.75 – 4.0
Power 250/400 V	1, 2, 3, ⏚	6 – 10	gray	96.041.4053.0	96.141.0053.0
			black	96.041.4053.1	96.141.0053.1
		10 – 14	gray	96.041.4153.0	96.141.0153.0
			black	96.041.4153.1	96.141.0153.1
AS-i / 24 V	1, 2, 3, 4	6 – 10	brown	96.041.4051.4	
		1 x AS-i Profile cable		96.041.4951.4	
		2 x AS-i Profile cable		96.041.4851.4	

Male connector

Unmounted with cable gland and with locking device.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.



Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1]	Part No. with crimp connection (see Accessories)
				Wire / mm²	Wire / mm²
				rigid / fine-stranded / stranded: 0.75 – 4.0 without ferrules	rigid / fine-stranded / stranded: 0.75 – 4.0
Power 250/400 V	1, 2, 3, ⏚	6 – 10	gray	96.042.4053.0	96.142.0053.0
			black	96.042.4053.1	96.142.0053.1
		10 – 14	gray	96.042.4153.0	96.142.0153.0
			black	96.042.4153.1	96.142.0153.1
AS-i / 24 V	1, 2, 3, 4	6 – 10	brown	96.042.4051.4	
		1 x AS-i Profile cable		96.042.4951.4	
		2 x AS-i Profile cable		96.042.4851.4	

[1] With wire protection available on request

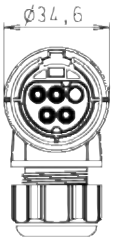
Connector, angled for cables of Ø 6 –10 mm and 10 – 14 mm

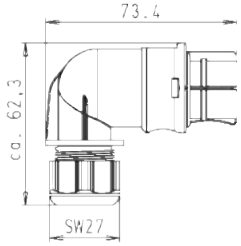
Female connector

Unmounted with cable gland.
90° angle.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.





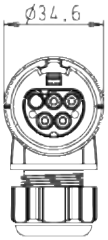
Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire rigid / fine-stranded / stranded: mm² 0.75 – 4.0 without ferrules	Part No. with crimp connection (see Accessories) Wire rigid / fine-stranded / stranded: mm² 0.75 – 4.0
Power 250/400 V	1, 2, 3, ⏚	6 – 10	gray	96.043.4053.0	96.143.0053.0
			black	96.043.4053.1	96.143.0053.1
		10 – 14	gray	96.043.4153.0	96.143.0153.0
			black	96.043.4153.1	96.143.0153.1
AS-i / 24 V	1, 2, 3, 4	6 – 10	brown	96.043.4051.4	
		1 x AS-i Profile cable		96.043.4951.4	
		2 x AS-i Profile cable		96.043.4851.4	

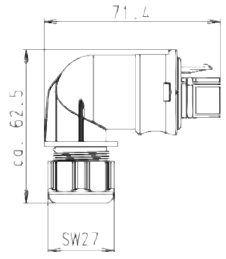
Male connector

Unmounted with cable gland and with locking device. 90° angle.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.





Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire rigid / fine-stranded / stranded: mm² 0.75 – 4.0 without ferrules	Part No. with crimp connection (see Accessories) Wire rigid / fine-stranded / stranded: mm² 0.75 – 4.0
Power 250/400 V	1, 2, 3, ⏚	6 – 10	gray	96.044.4053.0	96.144.0053.0
			black	96.044.4053.1	96.144.0053.1
		10 – 14	gray	96.044.4153.0	96.144.0153.0
			black	96.044.4153.1	96.144.0153.1
AS-i / 24 V	1, 2, 3, 4	6 – 10	brown	96.044.4051.4	
		1 x AS-i Profile cable		96.044.4951.4	
		2 x AS-i Profile cable		96.044.4851.4	

[1] With wire protection available on request

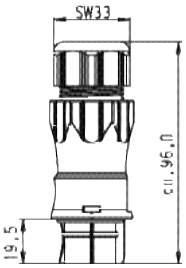
Connector for cables of Ø 13 –18 mm

Female connector

Unmounted with cable gland.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.



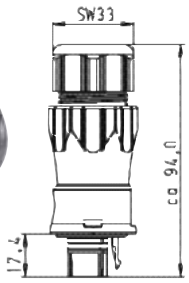
Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire / mm²	Part No. with crimp connection (see Accessories) Wire / mm²
				rigid, fine-stranded, stranded / up to 4.0 without ferrules	rigid, fine-stranded, stranded / 0.75 – 4.0
Power 250/400 V	1, 2, 3, ⏚	13 – 18	gray black	96.041.4553.0 96.041.4553.1	96.141.0553.0 96.141.0553.1

Male connector

Unmounted with cable gland and with locking device.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.



Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire / mm²	Part No. with crimp connection (see Accessories) Wire / mm²
				rigid, fine-stranded, stranded / 0.75 – 4.0 without ferrules	rigid, fine-stranded, stranded / 0.75 – 4.0
Power 250/400 V	1, 2, 3, ⏚	13 – 18	gray black	96.042.4553.0 96.042.4553.1	96.142.0553.0 96.142.0553.1

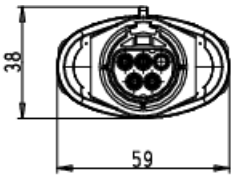
[1] With wire protection available on request

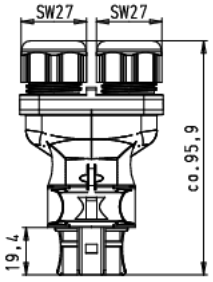
Splitter connector

Female connector

Unmounted with cable gland.

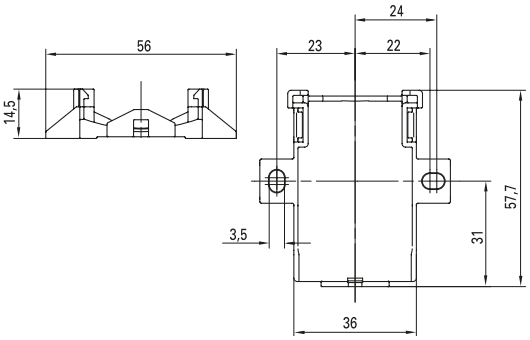
See Technical Data for sheath and insulation strip lengths.





Application	Coding	Cable diameter in mm	Color	Part No.
				with screw connection[1]
				Wire / mm²
				rigid / fine-stranded / stranded: 0.75 – 1.5 without ferrules
Power 250/400 V	1, 2, 3, ⏚	6 – 10	gray	96.041.4253.0
			black	96.041.4253.1
		10 – 14	gray	96.041.4353.0
			black	96.041.4353.1

Mounting plate
For splitter connectors



Color	Part No.
gray	01.006.1553.0
black	01.006.1553.1

[1] With wire protection available on request

M 25 device connector, standard

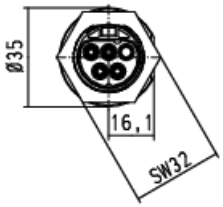
Female connector

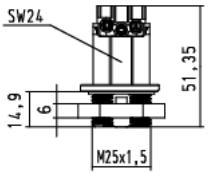
Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.

For spacer rings for unlocking at the device connector, see Accessories.





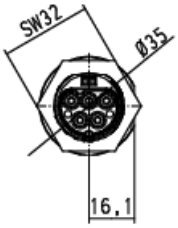
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid / fine-stranded / stranded	0.75 – 4.0
			0.75 – 4.0 without ferrules	
			Term. poles: 1	Term. poles: 1
			Thread: M25 x 1.5	Thread: M25 x 1,5
			Gland: outside	Gland: outside
Power 250/400V	1, 2, 3, ⏚	gray black	96.041.5053.0 96.041.5053.1	96.141.1053.0 96.141.1053.1
AS-i / 24V	1, 2, 3, 4	brown	96.041.5051.4	

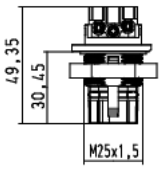
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.
With locking device.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.





Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid / fine-stranded / stranded	0.75 – 4.0
			0.75 – 4.0 without ferrules	
			Term. poles: 1	Term. poles: 1
			Thread: M25 x 1.5	Thread: M25 x 1.5
			Gland: outside	Gland: outside
			Locking device: yes	Locking device: yes
Power 250/400V	1, 2, 3, ⏚	gray black	96.042.5053.0 96.042.5053.1	96.142.1053.0 96.142.1053.1
AS-i / 24V	1, 2, 3, 4	brown	96.042.5051.4	

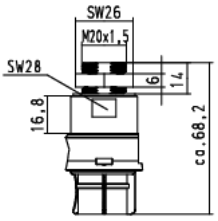
M 20 device connector, modular, straight

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



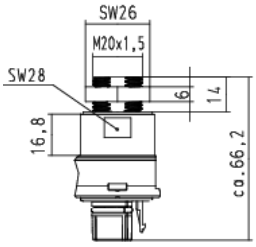
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid / fine-stranded / stranded	rigid / fine-stranded / stranded
			0.75 – 4.0 without ferrules	0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M20 x 1.5	Thread: M20 x 1.5
			Gland: inside	Gland: inside
Power 250/400V	1, 2, 3, ⏚	gray black	96.041.6053.0 96.041.6053.1	96.141.2053.0 96.141.2053.1
AS-i / 24V	1, 2, 3, 4	brown	96.041.6051.4	

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid / fine-stranded / stranded	rigid / fine-stranded / stranded
			0.75 – 4.0 without ferrules	0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M20 x 1.5	Thread: M20 x 1.5
			Gland: inside	Gland: inside
			Locking device: yes	Locking device: yes
Power 250/400V	1, 2, 3, ⏚	gray black	96.042.6053.0 96.042.6053.1	96.142.2053.0 96.142.2053.1
AS-i / 24V	1, 2, 3, 4	brown	96.042.6051.4	

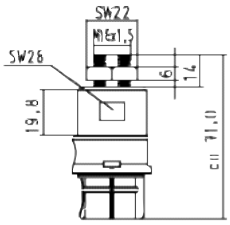
M 16 device connector, modular, straight

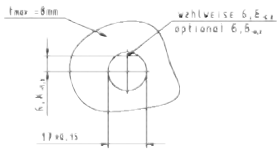
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



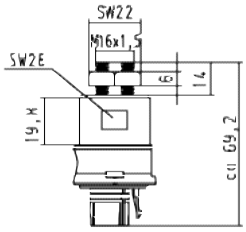
Application	Coding	Color	Part No.	Part No.
			**with screw connection**	**with crimp connection (see Accessories)**
			Wire: mm²	Wire: mm²
			rigid / fine-stranded / stranded: 0.75 – 4.0 without ferrules	rigid / fine-stranded / stranded: 0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M16 x 1.5	Thread: M16 x 1.5
			Gland: inside	Gland: inside
Power 250/400V	 1, 2, 3, ⏚	gray black	96.041.6153.0 96.041.6153.1	96.141.2153.0 96.141.2153.1
AS-i / 24V	 1, 2, 3, 4	brown	96.041.6151.4	

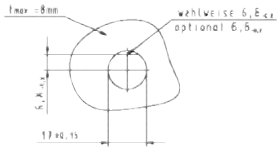
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



Application	Coding	Color	Part No.	Part No.
			**with screw connection**	**with crimp connection (see Accessories)**
			Wire: mm²	Wire: mm²
			rigid / fine-stranded / stranded: 0.75 – 4.0 without ferrules	rigid / fine-stranded / stranded: 0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M16 x 1.5	Thread: M16 x 1.5
			Gland: inside	Gland: inside
			Locking device: yes	Locking device: yes
Power 250/400V	 1, 2, 3, ⏚	gray black	96.042.6153.0 96.042.6153.1	96.142.2153.0 96.142.2153.1
AS-i / 24V	 1, 2, 3, 4	brown	96.042.6151.4	

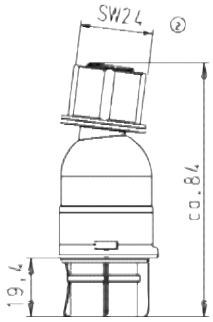
M 16 device connector, modular, 7° angle

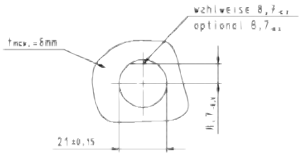
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
Angled 7°, thread M16.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



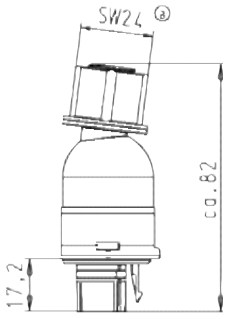
Application	Coding	Color	Part No.	Part No.
			**with screw connection**	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid	rigid
			fine-stranded	0.75 – 4.0	fine-stranded	0.75 – 4.0
			stranded	without ferrules	stranded	
			Term. poles	1	Term. poles	1
			Thread	M16 x 1.5	Thread	M16 x 1.5
			Gland	inside	Gland	inside
Power 250/400V	 1, 2, 3, ⏚	gray black	96.045.6153.0 96.045.6153.1	96.145.2153.0 96.145.2153.1
AS-i / 24V	 1, 2, 3, 4	brown	96.045.6151.4	

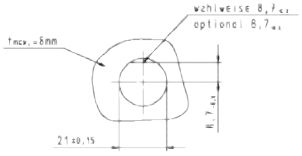
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
Angled 7°, thread M16.
With locking device.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



Application	Coding	Color	Part No.	Part No.
			**with screw connection**	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid	rigid
			fine-stranded	0.75 – 4.0	fine-stranded	0.75 – 4.0
			stranded	without ferrules	stranded	
			Term. poles	1	Term. poles	1
			Thread	M16 x 1.5	Thread	M16 x 1.5
			Gland	inside	Gland	inside
			Locking device	yes	Locking device	yes
Power 250/400V	 1, 2, 3, ⏚	gray black	96.046.6153.0 96.046.6153.1	96.146.2153.0 96.146.2153.1
AS-i / 24V	 1, 2, 3, 4	brown	96.046.6151.4	

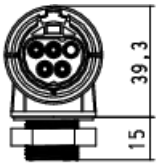
M 20 device connector, modular, angled

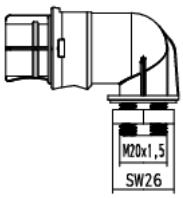
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
90° angle, M20 thread.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.





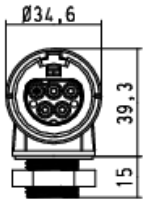
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid / fine-stranded / stranded	0.75 – 4.0
			Term. poles	1
			Thread	M20 x 1.5
			Gland	inside
Power 250/400V	1, 2, 3, ⏚	gray black	96.043.6053.0 96.043.6053.1	96.143.2053.0 96.143.2053.1
AS-i / 24V	1, 2, 3, 4	brown	96.043.6051.4	

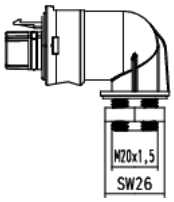
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
90° angle, M20 thread.
With locking device.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.





Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid / fine-stranded / stranded	0.75 – 4.0
			Term. poles	1
			Thread	M20 x 1.5
			Gland	inside
			Locking device	yes
Power 250/400V	1, 2, 3, ⏚	gray black	96.044.6053.0 96.044.6053.1	96.144.2053.0 96.144.2053.1
AS-i / 24V	1, 2, 3, 4	brown	96.044.6051.4	

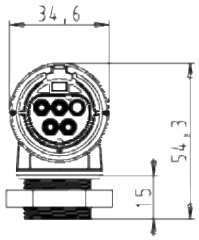
M 25 device connector, modular, angled

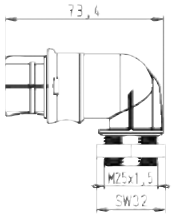
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
90° angle, M25 thread.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.





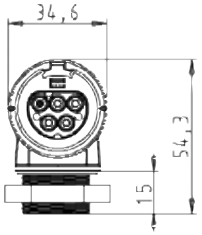
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / rigid / fine-stranded / stranded: mm²	Wire / rigid / fine-stranded / stranded: mm²
			0.75 – 4.0 without ferrules	0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M25 x 1.5	Thread: M25 x 1.5
			Gland: inside	Gland: inside
Power 250/400V	1, 2, 3, ⏚	gray black	96.043.6253.0 96.043.6253.1	96.143.2253.0 96.143.2253.1
AS-i / 24V	1, 2, 3, 4	brown	96.043.6251.4	

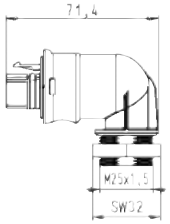
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
90° angle, M25 thread.
With locking device

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.





Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / rigid / fine-stranded / stranded: mm²	Wire / rigid / fine-stranded / stranded: mm²
			0.75 – 4.0 without ferrules	0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M25 x 1.5	Thread: M25 x 1.5
			Gland: inside	Gland: inside
			Locking device: yes	Locking device: yes
Power 250/400V	1, 2, 3, ⏚	gray black	96.044.6253.0 96.044.6253.1	96.144.2253.0 96.144.2253.1
AS-i / 24V	1, 2, 3, 4	brown	96.044.6251.4	

Cable assemblies 1.5 mm², 16 A

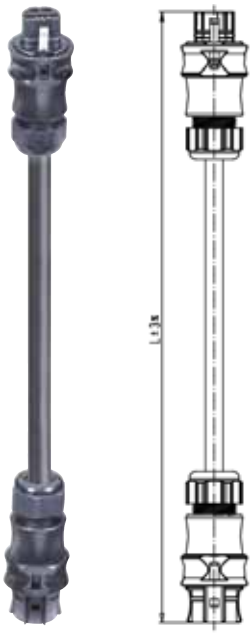
H05VV-F 4G1.5

containing halogen (PVC)

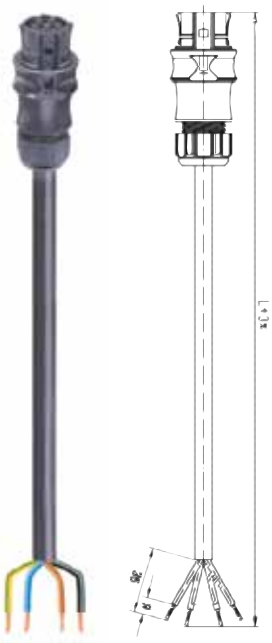
⏚ = GN/YE
1 = BN
2 = BK
3 = BU

Cable[1]: black
Connector in black

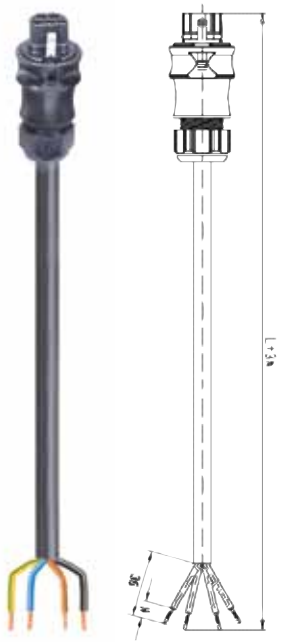
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V	1.0	96.442.1000.1	96.442.1003.1	96.442.1004.1
	2.0	96.442.2000.1	96.442.2003.1	96.442.2004.1
	3.0	96.442.3000.1	96.442.3003.1	96.442.3004.1
1, 2, 3, ⏚	4.0	96.442.4000.1	96.442.4003.1	96.442.4004.1
	5.0	96.442.5000.1	96.442.5003.1	96.442.5004.1
	6.0	96.442.6000.1	96.442.6003.1	96.442.6004.1
	7.0	96.442.7000.1	96.442.7003.1	96.442.7004.1
	8.0	96.442.8000.1	96.442.8003.1	96.442.8004.1

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 1.5 mm², 16 A

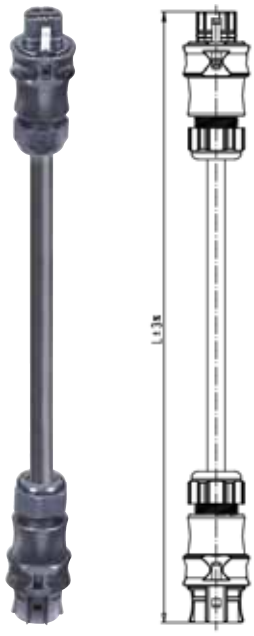
H07RN-F 4G1.5

Insulating rubber compound

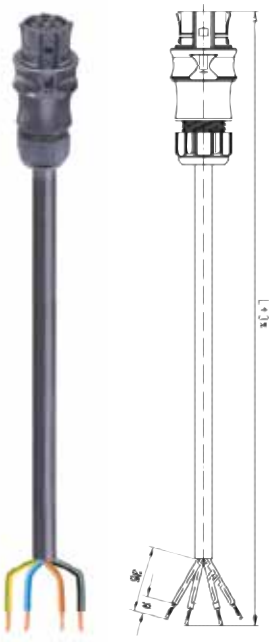
⏚ = GN/YE
1 = BN
2 = BK
3 = BU

Cable[1]: black
Connector in black

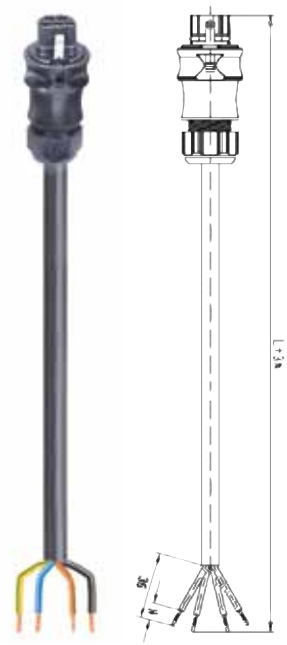
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V	1.0	96.442.1030.1	96.442.1033.1	96.442.1034.1
	2.0	96.442.2030.1	96.442.2033.1	96.442.2034.1
	3.0	96.442.3030.1	96.442.3033.1	96.442.3034.1
1, 2, 3, ⏚	4.0	96.442.4030.1	96.442.4033.1	96.442.4034.1
	5.0	96.442.5030.1	96.442.5033.1	96.442.5034.1
	6.0	96.442.6030.1	96.442.6033.1	96.442.6034.1
	7.0	96.442.7030.1	96.442.7033.1	96.442.7034.1
	8.0	96.442.8030.1	96.442.8033.1	96.442.8034.1

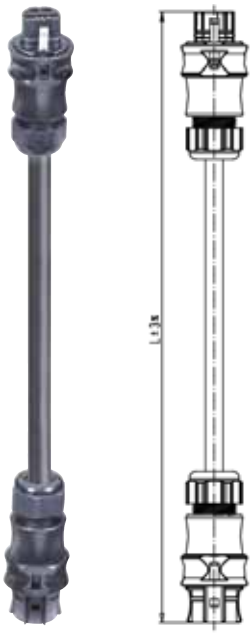
[1] Other cables available on request
[2] Other lengths available on request

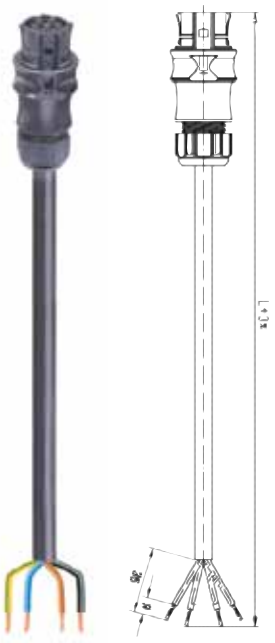
Cable assemblies 2.5 mm², 20 A

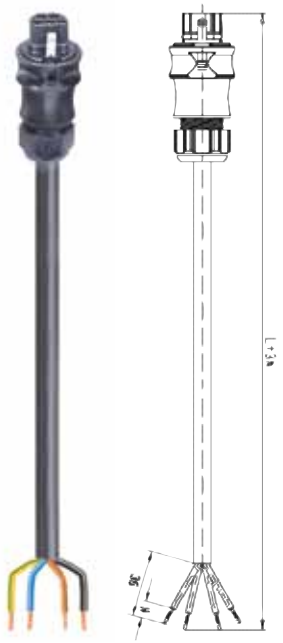
H05VV-F 4G2.5

containing halogen (PVC)

⏚ = GN/YE
1 = BN
2 = BK
3 = BU







	Female – Male	Female – Free end	Male – Free end
	Extension cable	Connection cable	Connection cable
	Locking device: yes	Wire ends: ultrason. welded	Wire ends: ultrason. welded
		Sheath strip length: 35 mm	Sheath strip length: 35 mm
		Insul. strip length: 9 mm	Insul. strip length: 9 mm
			Locking device: yes

Cable[1]: black
Connector in black

Screw technology

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V	1.0	96.443.1000.1	96.443.1003.1	96.443.1004.1
	2.0	96.443.2000.1	96.443.2003.1	96.443.2004.1
	3.0	96.443.3000.1	96.443.3003.1	96.443.3004.1
1, 2, 3, ⏚	4.0	96.443.4000.1	96.443.4003.1	96.443.4004.1
	5.0	96.443.5000.1	96.443.5003.1	96.443.5004.1
	6.0	96.443.6000.1	96.443.6003.1	96.443.6004.1
	7.0	96.443.7000.1	96.443.7003.1	96.443.7004.1
	8.0	96.443.8000.1	96.443.8003.1	96.443.8004.1

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 2.5 mm², 20 A

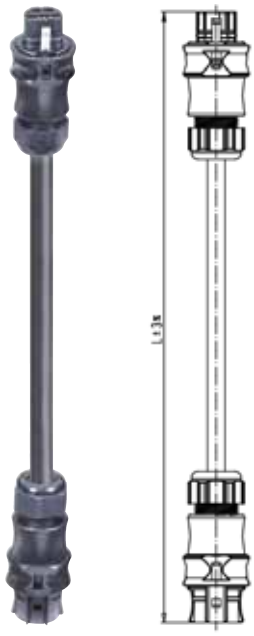
H07RN-F 4G2.5

Insulating rubber compound

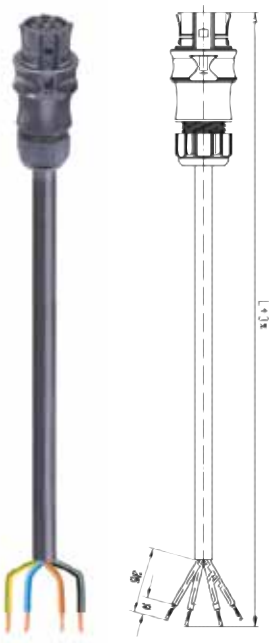
⏚ = GN/YE
1 = BN
2 = BK
3 = BU

Cable[1]: black
Connector in black

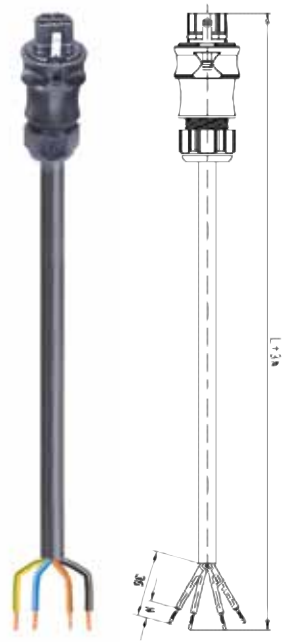
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V	1.0	96.443.1030.1	96.443.1033.1	96.443.1034.1
	2.0	96.443.2030.1	96.443.2033.1	96.443.2034.1
	3.0	96.443.3030.1	96.443.3033.1	96.443.3034.1
1, 2, 3, ⏚	4.0	96.443.4030.1	96.443.4033.1	96.443.4034.1
	5.0	96.443.5030.1	96.443.5033.1	96.443.5034.1
	6.0	96.443.6030.1	96.443.6033.1	96.443.6034.1
	7.0	96.443.7030.1	96.443.7033.1	96.443.7034.1
	8.0	96.443.8030.1	96.443.8033.1	96.443.8034.1

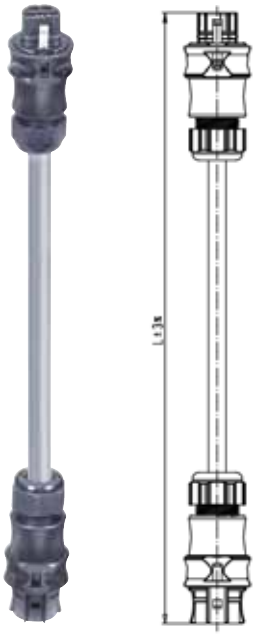
[1] Other cables available on request
[2] Other lengths available on request

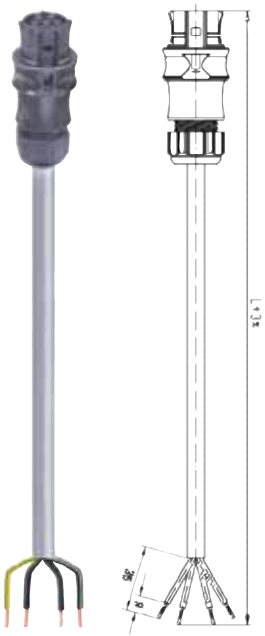
Cable assemblies 1.5 mm², 16 A, power 4 pole

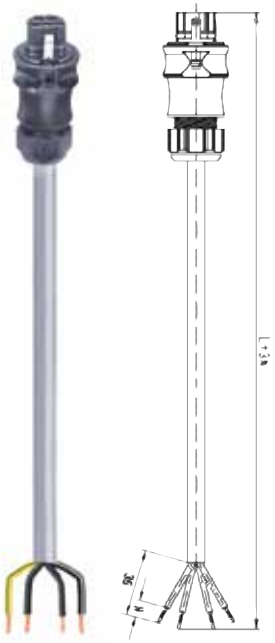
Ölflex Classic 110 4G1.5

containing halogen (PVC)

⏚ = GN/YE
1 = BK 1
2 = BK 2
3 = BK 3







	Female – Male	Female – Free end	Male – Free end
	Extension cable	Connection cable	Connection cable
	Locking device: yes	Wire ends: ultrason. welded	Wire ends: ultrason. welded
		Sheath strip length: 35 mm	Sheath strip length: 35 mm
		Insul. strip length: 9 mm	Insul. strip length: 9 mm
			Locking device: yes
Cable[1]: gray Connector in black			
Screw technology			

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V	1.0	96.442.1080.1	96.442.1083.1	96.442.1084.1
	2.0	96.442.2080.1	96.442.2083.1	96.442.2084.1
	3.0	96.442.3080.1	96.442.3083.1	96.442.3084.1
1, 2, 3, ⏚	4.0	96.442.4080.1	96.442.4083.1	96.442.4084.1
	5.0	96.442.5080.1	96.442.5083.1	96.442.5084.1
	6.0	96.442.6080.1	96.442.6083.1	96.442.6084.1
	7,0	96.442.7080.1	96.442.7083.1	96.442.7084.1
	8.0	96.442.8080.1	96.442.8083.1	96.442.8084.1

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 2.5 mm², 20 A, AS-i 24 V

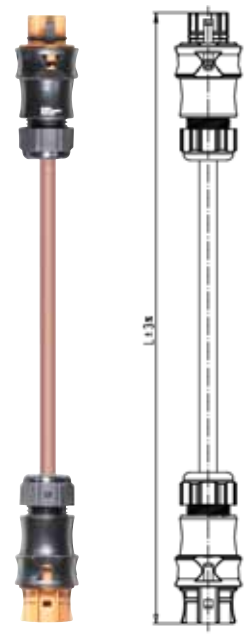
PVC 4 x 2.5

Special compound

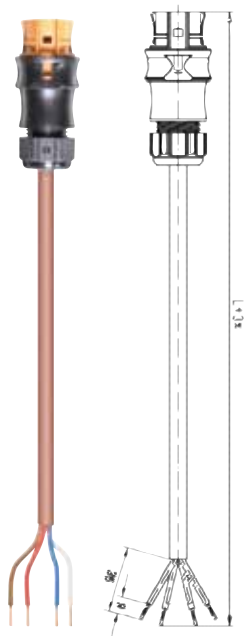
1 = AS-i + = BN
2 = OV = WH
3 = AS-i – = BU
4 = 24 V = RD

Cable[1]: brown
Connector in brown

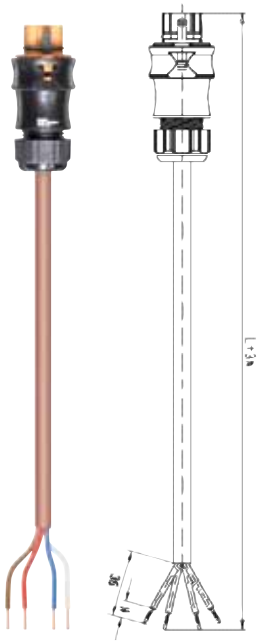
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
AS-i 24 V	1.0	96.443.1082.4	96.443.1087.4	96.443.1088.4
	2.0	96.443.2082.4	96.443.2087.4	96.443.2088.4
	3.0	96.443.3082.4	96.443.3087.4	96.443.3088.4
1, 2, 3, 4	4.0	96.443.4082.4	96.443.4087.4	96.443.4088.4
	5.0	96.443.5082.4	96.443.5087.4	96.443.5088.4
	6.0	96.443.6082.4	96.443.6087.4	96.443.6088.4
	7.0	96.443.7082.4	96.443.7087.4	96.443.7088.4
	8.0	96.443.8082.4	96.443.8087.4	96.443.8088.4
	9.0	96.443.9082.4	96.443.9087.4	96.443.9088.4

[1] Other cables available on request
[2] Other lengths available on request

Distribution unit

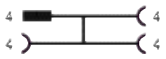
RST compact distribution unit

Name	Color	Part No.
RST compact distribution unit	black	on request

Detailed information about the distribution units available in section "Distribution units".

Dimensions (W x L x H)	104 x 162 x 57.2 mm
Fitted as required with	M25 device connectors 4 pole
Input	1, RST 20i4
Outputs	3, RST 20i4
Prewired with	2.5 mm²
Fastening options	yes

Circuit diagram



RST multi-distribution unit

Name	Color	Part No.
RST multi-distribution unit	black	on request

Detailed information about the distribution units available in section "Distribution units".

Dimensions (W x L x H)	112 x 154 x 94 mm
Fitted as required with	M25 device connectors 4 pole
Input	1, RST 20i4
Outputs	7, RST 20i4
Prewired with	2.5 mm²
Fuses	6.3 or 10 A can be integrated

Circuit diagram

Accessories

Female connector
4 to 5 pole

Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 4 to 5 pole	Pole: 4 to 5 pole
	Safe locking device: unused male connectors	Safe locking device: unused male connectors
gray	05.565.9953.0	99.531.0000.7
black	05.565.9953.1	99.532.0000.7

Male connector
4 to 5 pole

Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 4 to 5 pole	Pole: 4 to 5 pole
	Safe locking device: unused female connectors	Safe locking device: unused female connectors
gray	Z5.565.9853.0	99.529.0000.7
black	Z5.565.9853.1	99.530.0000.7

Accessories

Crimp contacts*
Female contacts

Name	Marking (groove) mm²		Part No.	Units per pack
Crimp contact	unmarked	0.75 – 1.0	02.125.5521.8	100
Crimp contact	1	1.5	02.125.5621.8	100
Crimp contact	2	2.5	02.125.5721.8	100
Crimp contact	3	4.0	02.125.5821.8	100

* Available on straps or in magazines on request

Crimp contacts*
Male contacts

Name	Marking (groove) mm²		Part No.	Units per pack
Crimp contact	unmarked	0.75 – 1.0	05.545.0021.8	100
Crimp contact	1	1.5	05.545.0121.8	100
Crimp contact	2	2.5	05.545.0221.8	100
Crimp contact	3	4.0	05.545.0321.8	100

* Available on straps or in magazines on request

Crimping tool

Name	Part No.
Crimping tool incl. system kit	95.101.0800.0
Crimping die B	05.502.2100.0
Contact positioner	05.502.3600.0

Unlocking tool
for crimp contacts

Name	Part No.
Unlocking tool	05.502.3500.0

RST 20i5

The 5 pole versions – general power applications, switching functions, power/dimming signals and low voltage

Application example

General

Four variations are available for the 5 pole connectors: the standard version for general power applications, another version for switching functions, a version to combine power and dimming signals, as well as 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	Power 250/400 V		50 V, LV, bus sign.	Power 250 V + Dimming	Switch.func. 250 V
				Mechanical coding	⏚, N, 3, 2, 1		1,2,3,4,5	L,⏚,N,D1,D2	1,2,3,4,5
Name	**Description**	**Connection style**	**Strain relief housing**	**Connection points per pole**	gray	black	brown	turquoise	blue
Connectors	1 x cable entry	Screw Crimp	yes	1	■	■	■	■	■
	2 x cable entry	Screw	yes	1	■	■	■	■	■
Distribution unit	RST compact distribution unit/multi-distribution unit				available on request	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	available on request
Device connectors	M16 device connector, modular, straight				■	■	■	■	■
	M16 device connector, modular, angled 7°				■	■	■	■	■
	M25 device connector, standard				■	■	■	■	■
	M20 device connector, standard				■	■	■	■	■
	M20 device connector, modular, angled				■	■	■	■	■
	M25 device connector, modular, angled				■	■	■	■	■
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	■	■	■	■	■
	Connection cable Female – Free end				■	■	■	■	■
	Extension cable Male – Female				■	■	■	■	■

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

Female connector

Unmounted with cable gland.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.

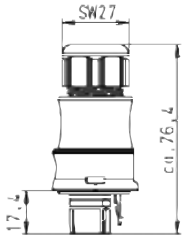
Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire / mm²	Part No. with crimp connection (see Accessories) Wire / mm²
				rigid, fine-stranded, stranded: 0.75 – 4.0 without ferrules	fine-stranded, stranded: 0.75 – 4.0
Power 250/400 V	⏚, N, 3,2,1	6 – 10	gray	96.051.4053.0	96.151.0053.0
			black	96.051.4053.1	96.151.0053.1
		10 – 14	gray	96.051.4153.0	96.151.0153.0
			black	96.051.4153.1	96.151.0153.1
Power 250 V +Dimming	L,⏚, N, D1, D2	6 – 10	turquoise	96.051.4053.6	96.151.0053.6
		10 –14		96.051.4153.6	96.151.0153.6
Switch.func. 250 V	1,2, 3,4,5	6 – 10	blue	96.051.4053.9	96.151.0053.9
		10 –14		96.051.4153.9	96.151.0153.9
50 V, LV, bus signals	1,2, 3,4,5	6 – 10	brown	96.051.4051.4	96.151.0051.4
		10 –14		96.051.4151.4	96.151.0151.4

Male connector

Unmounted with cable gland and with locking device.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.



Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire / mm²	Part No. with crimp connection (see Accessories) Wire / mm²
				rigid, fine-stranded, stranded: 0.75 – 4.0 without ferrules; Locking device: yes	fine-stranded, stranded: 0.75 – 4.0; Locking device: yes
Power 250/400 V	⏚, N, 3,2,1	6 – 10	gray	96.052.4053.0	96.152.0053.0
			black	96.052.4053.1	96.152.0053.1
		10 – 14	gray	96.052.4153.0	96.152.0153.0
			black	96.052.4153.1	96.152.0153.1
Power 250 V + dimming	L,⏚, N, D1, D2	6 – 10	turquoise	96.052.4053.6	96.152.0053.6
		10 –14		96.052.4153.6	96.152.0153.6
Switch.func. 250 V	1,2, 3,4,5	6 – 10	blue	96.052.4053.9	96.152.0053.9
		10 –14		96.052.4153.9	96.152.0153.9
50 V, LV, bus signals	1,2, 3,4,5	6 – 10	brown	96.052.4051.4	96.152.0051.4
		10 –14		96.052.4151.4	96.152.0151.4

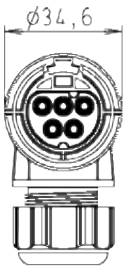
[1] With wire protection available on request

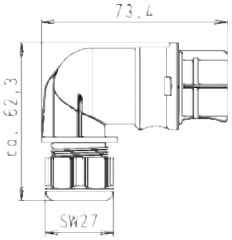
Connector, angled for cables of Ø 6 –10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.
90° angle.

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



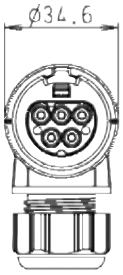


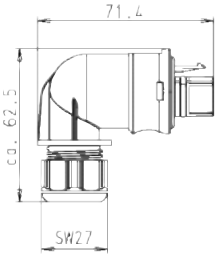
Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire rigid / fine-stranded / stranded, mm² 0.75 – 4.0 without ferrules	Part No. with crimp connection (see Accessories) Wire fine-stranded / stranded, mm² 0.75 – 4.0
Power 250/400 V	⏚, N, 3,2,1	6 – 10	gray	96.053.4053.0	96.153.0053.0
			black	96.053.4053.1	96.153.0053.1
		10 – 14	gray	96.053.4153.0	96.153.0153.0
			black	96.053.4153.1	96.153.0153.1
Power 250 V +Dimming	L,⏚, N, D1, D2	6 – 10	turquoise	96.053.4053.6	96.153.0053.6
		10 –14		96.053.4153.6	96.153.0153.6
Switch.func. 250 V	1,2, 3,4,5	6 – 10	blue	96.053.4053.9	96.153.0053.9
		10 –14		96.053.4153.9	96.153.0153.9
50 V, LV, bus signals	1,2, 3,4,5	6 – 10	brown	96.053.4051.4	96.153.0051.4
		10 –14		96.053.4151.4	96.153.0151.4

Male connector

Unmounted with cable gland and with locking device. 90° angle.

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





Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire rigid / fine-stranded / stranded, mm² 0.75 – 4.0 without ferrules; Locking device: yes	Part No. with crimp connection (see Accessories) Wire fine-stranded / stranded, mm² 0.75 – 4.0; Locking device: yes
Power 250/400 V	⏚, N, 3,2,1	6 – 10	gray	96.054.4053.0	96.154.0053.0
			black	96.054.4053.1	96.154.0053.1
		10 – 14	gray	96.054.4153.0	96.154.0153.0
			black	96.054.4153.1	96.154.0153.1
Power 250 V + dimming	L,⏚, N, D1, D2	6 – 10	turquoise	96.054.4053.6	96.154.0053.6
		10 –14		96.054.4153.6	96.154.0153.6
Switch.func. 250 V	1,2, 3,4,5	6 – 10	blue	96.054.4053.9	96.154.0053.9
		10 –14		96.054.4153.9	96.154.0153.9
50 V, LV, bus signals	1,2, 3,4,5	6 – 10	brown	96.054.4051.4	96.154.0051.4
		10 –14		96.054.4151.4	96.154.0151.4

[1] With wire protection available on request

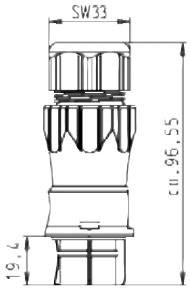
Connector for cables of Ø 13 –18 mm

Female connector

Unmounted with cable gland.

Crimp contacts separately available under Accessories.

See Technical Data for sheath and insulation strip lengths.



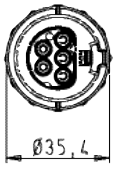
Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[1] Wire / mm²	Part No. with crimp connection (see Accessories) Wire / mm²
				rigid, fine-stranded, stranded: 0.75 – 4.0 without ferrules	fine-stranded, stranded: 0.75 – 4.0
Power 250 V/400 V	⏚, N, 3,2,1	13 –18	gray black	96.051.4553.0 96.051.4553.1	96.151.0553.0 96.151.0553.1
Power 250 V + dimming	L,⏚, N, D1, D2	13 –18	turquoise	96.051.4553.6	96.151.0553.6
Switch.func. 250 V	1,2, 3,4,5	13 –18	blue	96.051.4553.9	96.151.0553.9
50 V, LV, bus signals	1,2, 3,4,5	13 –18	brown	96.051.4551.4	96.151.0551.4

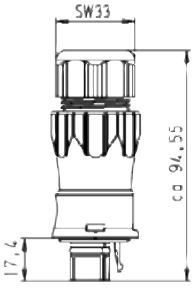
Male connector

Unmounted with cable gland and with locking device.

Crimp contacts separately available under Accessories.

See Technical Data for sheath and insulation strip lengths.





Application	Coding	Cable diameter in mm	Color	Part No. with screw connection[2] Wire / mm²	Part No. with crimp connection (see Accessories) Wire / mm²
				rigid, fine-stranded, stranded: 0.75 – 4.0 without ferrules Locking device: yes	fine-stranded, stranded: 0.75 – 4.0 Locking device: yes
Power 250 V/400 V	⏚, N, 3,2,1	13 –18	gray black	96.052.4553.0 96.052.4553.1	96.152.0553.0 96.152.0553.1
Power 250 V + dimming	L,⏚, N, D1, D2	13 –18	turquoise	96.052.4553.6	96.152.0553.6
Switch.func. 250 V	1,2, 3,4,5	13 –18	blue	96.052.4553.9	96.152.0553.9
50 V, LV, bus signals	1,2, 3,4,5	13 –18	brown	96.052.4551.4	96.152.0551.4

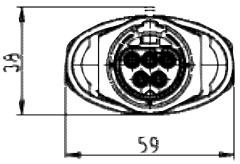
[1] With wire protection available on request

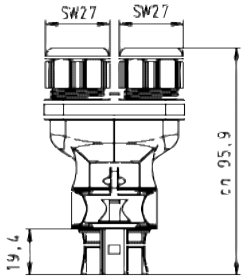
Splitter connector

Female connector

Unmounted with cable gland.

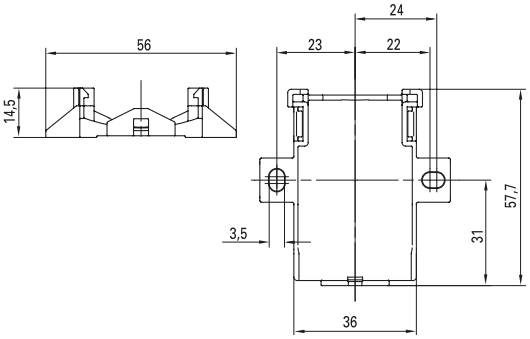
See Technical Data for sheath and insulation strip lengths.





Application	Coding	Cable diameter in mm	Color	Part No.
				with screw connection[1]
				Wire / mm²
				rigid / fine-stranded / stranded: 0.75 – 1.5 without ferrules
Power 250/400 V	⏚, N, 3,2,1	6 – 10	gray	96.051.4253.0
			black	96.051.4253.1
		10 – 14	gray	96.051.4353.0
			black	96.051.4353.1
Power 250 V +Dimming	L,⏚, N, D1, D2	6 – 10	turquoise	96.051.4253.6
		10 –14		96.051.4353.6
Switch.func. 250 V	1,2, 3,4,5	6 – 10	blue	
		10 –14		
50 V, LV, bus signals	1,2, 3,4,5	6 – 10	brown	96.051.4251.4
		10 –14		96.051.4351.4

Mounting plate
for splitter connectors



Color	Part No.
gray	01.006.1553.0
black	01.006.1553.1

Crimp contacts separately available under Accessories

Additional compact and multi distribution units from the RST range following this section.

[1] With wire protection available on request

M 25 device connector, standard

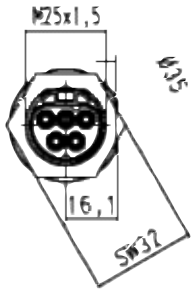
Female connector

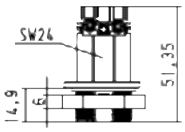
Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.

For spacer rings for unlocking at the device connector, see Accessories.





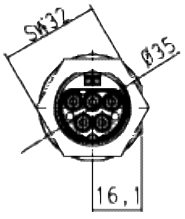
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire: mm²	Wire: mm²
			rigid, fine-stranded, stranded: 0.75 – 4.0 without ferrules	rigid, fine-stranded, stranded: 0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M25 x 1.5	Thread: M25 x 1.5
			Gland: outside	Gland: outside
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.051.5053.0 96.051.5053.1	96.151.1053.0 96.151.1053.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.051.5053.6	96.151.1053.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.051.5053.9	96.151.1053.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.051.5051.4	96.151.1051.4

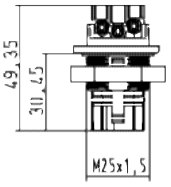
Male connector

Correct positioning guaranteed due to flattened thread. With locking device.
Fastening with screws from outside.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.





Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire: mm²	Wire: mm²
			rigid, fine-stranded, stranded: 0.75 – 4.0 without ferrules	rigid, fine-stranded, stranded: 0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M25 x 1.5	Thread: M25 x 1.5
			Gland: outside	Gland: outside
			Locking device: yes	Locking device: yes
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.052.5053.0 96.052.5053.1	96.152.1053.0 96.152.1053.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.052.5053.6	96.152.1053.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.052.5053.9	96.152.1053.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.052.5051.4	96.152.1051.4

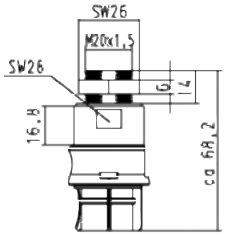
M 20 device connector, modular, straight

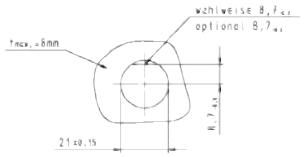
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.





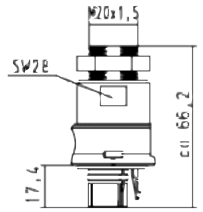
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid / fine-stranded / stranded	fine-stranded / stranded: 0.75 – 4.0
			fine-stranded / stranded: 0.75 – 4.0 without ferrules	
			Term. poles: 1	Term. poles: 1
			Thread: M20 x 1.5	Thread: M20 x 1.5
			Gland: inside	Gland: inside
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.051.6053.0 96.051.6053.1	96.151.2053.0 96.151.2053.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.051.6053.6	96.151.2053.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.051.6053.9	96.151.2053.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.051.6051.4	96.151.2051.4

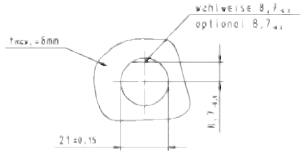
Male connector

Correct positioning guaranteed due to flattened thread. With locking device.
Fastening with screws from inside.

Crimp contacts separately available under Accessories

See Technical Data for sheath and insulation strip lengths.





Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid / fine-stranded / stranded	fine-stranded / stranded: 0.75 – 4.0
			fine-stranded / stranded: 0.75 – 4.0 without ferrules	
			Term. poles: 1	Term. poles: 1
			Thread: M20 x 1.5	Thread: M20 x 1.5
			Gland: inside	Gland: inside
			Locking device: yes	Locking device: yes
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.052.6053.0 96.052.6053.1	96.152.2053.0 96.152.2053.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.052.6053.6	96.152.2053.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.052.6053.9	96.152.2053.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.052.6051.4	96.152.2051.4

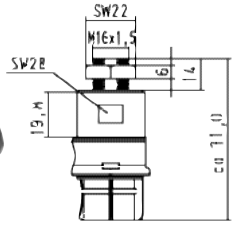
M 16 device connector, modular, straight

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



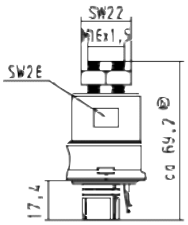
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid, fine-stranded, stranded / 0.75 – 4.0 without ferrules	fine-stranded, stranded / 0.75 – 4.0
			Term. poles / 1	Term. poles / 1
			Thread / M16 x 1.5	Thread / M16 x 1.5
			Gland / inside	Gland / inside
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.051.6153.0 96.051.6153.1	96.151.2153.0 96.151.2153.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.051.6153.6	96.151.2153.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.051.6153.9	96.151.2153.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.051.6151.4	96.151.2151.4

Male connector

Correct positioning guaranteed due to flattened thread. With locking device.
Fastening with screws from inside.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid, fine-stranded, stranded / 0.75 – 4.0 without ferrules	fine-stranded, stranded / 0.75 – 4.0
			Term. poles / 1	Term. poles / 1
			Thread / M16 x 1.5	Thread / M16 x 1.5
			Gland / inside	Gland / inside
			Locking device / yes	Locking device / yes
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.052.6153.0 96.052.6153.1	96.152.2153.0 96.152.2153.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.052.6153.6	96.152.2153.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.052.6153.9	96.152.2153.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.052.6151.4	96.152.2151.4

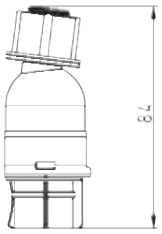
M 16 device connector, modular, 7° angle

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. .
Angled 7°, thread M16.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



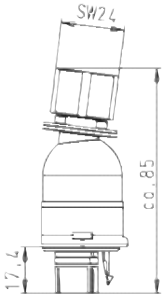
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid, fine-stranded, stranded / 0.75 – 4.0 without ferrules	fine-stranded, stranded / 0.75 – 4.0
			Term. poles / 1	Term. poles / 1
			Thread / M16 x 1.5	Thread / M16 x 1.5
			Gland / inside	Gland / inside
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.055.6153.0 96.055.6153.1	96.155.2153.0 96.155.2153.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.055.6153.6	96.155.2153.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.055.6153.9	96.155.2153.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.055.6151.4	96.155.2151.4

Male connector

Correct positioning guaranteed due to flattened thread. With locking device.
Fastening with screws from inside.
Angled 7°, thread M16.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.



Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid, fine-stranded, stranded / 0.75 – 4.0 without ferrules	fine-stranded, stranded / 0.75 – 4.0
			Term. poles / 1	Term. poles / 1
			Thread / M16 x 1.5	Thread / M16 x 1.5
			Gland / inside	Gland / inside
			Locking device / yes	Locking device / yes
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.056.6153.0 96.056.6153.1	96.156.2153.0 96.156.2153.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.056.6153.6	96.156.2153.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.056.6153.9	96.156.2153.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.056.6151.4	96.156.2151.4

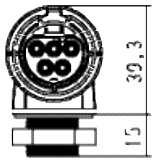
M 20 device connector, modular, angled

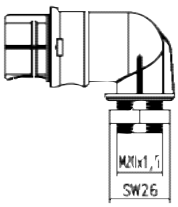
Female connector

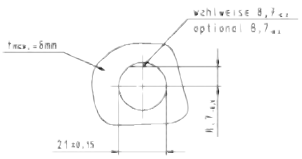
Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
90° angle, M20 thread.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.







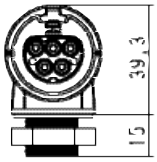
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire: mm²	Wire: mm²
			rigid, fine-stranded, stranded: 0.75 – 4.0 without ferrules	fine-stranded, stranded: 0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M20 x 1.5	Thread: M20 x 1.5
			Gland: inside	Gland: inside
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.053.6053.0 96.053.6053.1	96.153.2053.0 96.153.2053.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.053.6053.6	96.153.2053.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.053.6053.9	96.153.2053.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.053.6051.4	96.153.2051.4

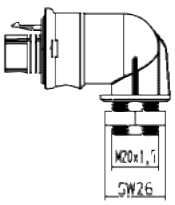
Male connector

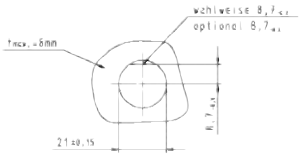
Correct positioning guaranteed due to flattened thread. With locking device.
Fastening with screws from inside.
90° angle, M20 thread.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.







Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire: mm²	Wire: mm²
			rigid, fine-stranded, stranded: 0.75 – 4.0 without ferrules	fine-stranded, stranded: 0.75 – 4.0
			Term. poles: 1	Term. poles: 1
			Thread: M20 x 1.5	Thread: M20 x 1.5
			Gland: inside	Gland: inside
			Locking device: yes	Locking device: yes
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.054.6053.0 96.054.6053.1	96.154.2053.0 96.154.2053.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.054.6053.6	96.154.2053.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.054.6053.9	96.154.2053.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.054.6051.4	96.154.2051.4

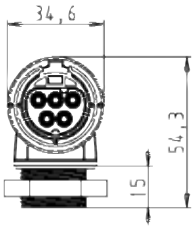
M 25 device connector, modular, angled

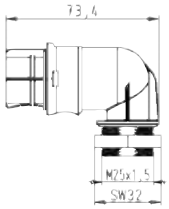
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
90° angle, M25 thread.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.





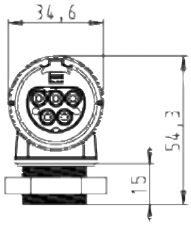
Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid, fine-stranded, stranded / 0.75 – 4.0 without ferrules	fine-stranded, stranded / 0.75 – 4.0
			Term. poles / 1	Term. poles / 1
			Thread / M25 x 1.5	Thread / M25 x 1.5
			Gland / inside	Gland / inside
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.053.6253.0 96.053.6253.1	96.153.2253.0 96.153.2253.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.053.6253.6	96.153.2253.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.053.6253.9	96.153.2253.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.053.6251.4	96.153.2251.4

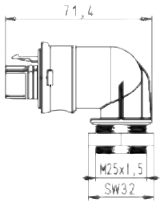
Male connector

Correct positioning guaranteed due to flattened thread. With locking device.
Fastening with screws from inside.
90° angle, M25 thread.

Crimp contacts separately available under Accessories

See the Technical Data for insulation strip lengths.





Application	Coding	Color	Part No.	Part No.
			with screw connection	**with crimp connection (see Accessories)**
			Wire / mm²	Wire / mm²
			rigid, fine-stranded, stranded / 0.75 – 4.0 without ferrules	fine-stranded, stranded / 0.75 – 4.0
			Term. poles / 1	Term. poles / 1
			Thread / M25 x 1.5	Thread / M25 x 1.5
			Gland / inside	Gland / inside
			Locking device / yes	Locking device / yes
Power 250 V/400 V	⏚, N, 3,2,1	gray black	96.054.6253.0 96.054.6253.1	96.154.2253.0 96.154.2253.1
Power 250 V + dimming	L,⏚, N, D1, D2	turquoise	96.054.6253.6	96.154.2253.6
Switch.func. 250 V	1,2, 3,4,5	blue	96.054.6253.9	96.154.2253.9
50 V, LV, bus signals	1,2, 3,4,5	brown	96.054.6251.4	96.154.2251.4

Cable assemblies 1.5 mm², 16 A

H05VV-F 5G1.5

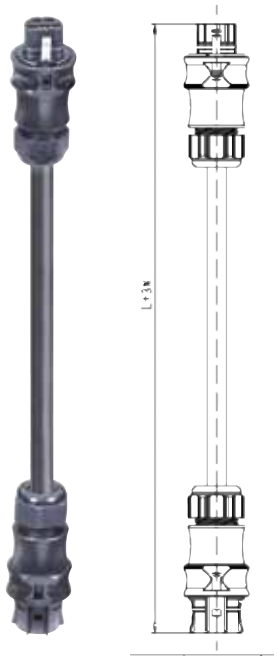
containing halogen (PVC)

Power 250/400 V:
⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

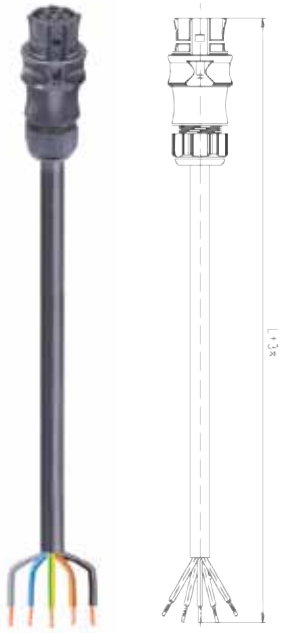
Power 250 V + Dimming:
⏚ = GN/YE
N = BU
L = BN
D2 = BK
D1 = GY

Cable[1]: black
Connector in black

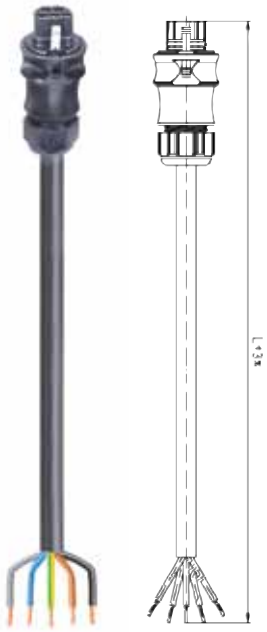
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V 1, 2, 3, N, ⏚ 	1.0	96.452.1000.1	96.452.1003.1	96.452.1004.1
	2,0	96.452.2000.1	96.452.2003.1	96.452.2004.1
	3.0	96.452.3000.1	96.452.3003.1	96.452.3004.1
	4.0	96.452.4000.1	96.452.4003.1	96.452.4004.1
	5.0	96.452.5000.1	96.452.5003.1	96.452.5004.1
	6.0	96.452.6000.1	96.452.6003.1	96.452.6004.1
	7.0	96.452.7000.1	96.452.7003.1	96.452.7004.1
	8.0	96.452.8000.1	96.452.8003.1	96.452.8004.1
Power 250V + Dimming L,⏚,N,D1,D2 	1.0	96.452.1000.6	96.452.1003.6	96.452.1004.6
	2,0	96.452.2000.6	96.452.2003.6	96.452.2004.6
	3.0	96.452.3000.6	96.452.3003.6	96.452.3004.6
	4.0	96.452.4000.6	96.452.4003.6	96.452.4004.6
	5.0	96.452.5000.6	96.452.5003.6	96.452.5004.6
	6.0	96.452.6000.6	96.452.6003.6	96.452.6004.6
	7.0	96.452.7000.6	96.452.7003.6	96.452.7004.6
	8.0	96.452.8000.6	96.452.8003.6	96.452.8004.6
Switch.func. 250 V 1, 2, 3, 4, 5 	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			
50V, LV, bus signals 1, 2, 3, 4, 5 	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 1.5 mm², 16 A

H07RN-F 5G1.5

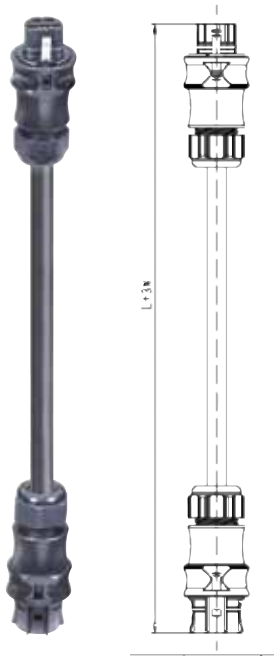
Insulating rubber compound

Power 250/400 V:
⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

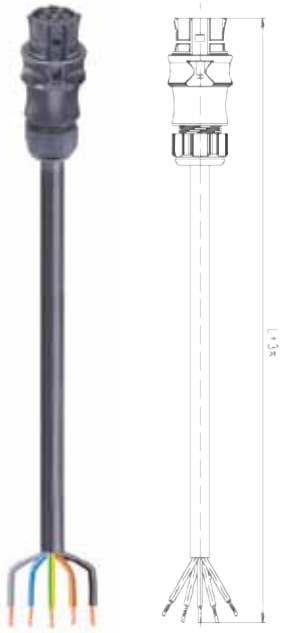
Power 250 V + Dimming:
⏚ = GN/YE
N = BU
L = BN
D2 = BK
D1 = GY

Cable[1]: black
Connector in black

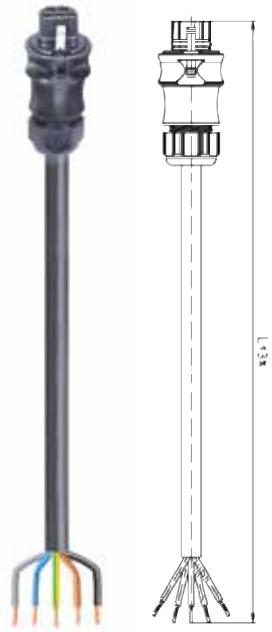
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V 1, 2, 3, N, ⏚	1.0	96.452.1030.1	96.452.1033.1	96.452.1034.1
	2,0	96.452.2030.1	96.452.2033.1	96.452.2034.1
	3.0	96.452.3030.1	96.452.3033.1	96.452.3034.1
	4.0	96.452.4030.1	96.452.4033.1	96.452.4034.1
	5.0	96.452.5030.1	96.452.5033.1	96.452.5034.1
	6.0	96.452.6030.1	96.452.6033.1	96.452.6034.1
	7.0	96.452.7030.1	96.452.7033.1	96.452.7034.1
	8.0	96.452.8030.1	96.452.8033.1	96.452.8034.1
Power 250V + Dimming L,⏚,N,D1,D2	1.0	96.452.1030.6	96.452.1033.6	96.452.1034.6
	2,0	96.452.2030.6	96.452.2033.6	96.452.2034.6
	3.0	96.452.3030.6	96.452.3033.6	96.452.3034.6
	4.0	96.452.4030.6	96.452.4033.6	96.452.4034.6
	5.0	96.452.5030.6	96.452.5033.6	96.452.5034.6
	6.0	96.452.6030.6	96.452.6033.6	96.452.6034.6
	7.0	96.452.7030.6	96.452.7033.6	96.452.7034.6
	8.0	96.452.8030.6	96.452.8033.6	96.452.8034.6
Switch.func. 250 V 1, 2, 3, 4, 5	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			
50 V, LV, bus signals 1, 2, 3, 4, 5	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 2.5 mm², 20 A

H05VV-F 5G2.5

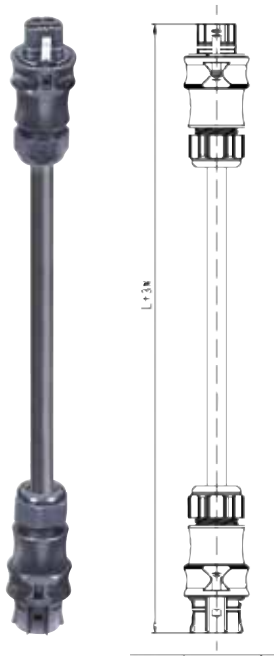
containing halogen (PVC)

Power 250/400 V:
⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

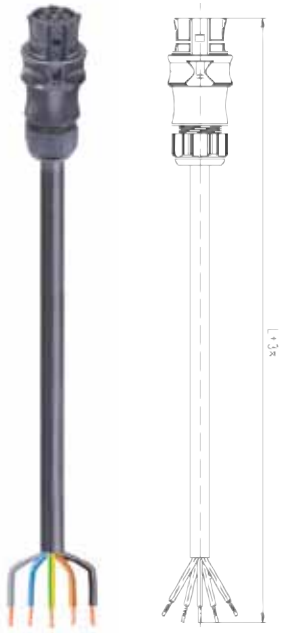
Power 250 V + Dimming:
⏚ = GN/YE
N = BU
L = BN
D2 = BK
D1 = GY

Cable[1]: black
Connector in black

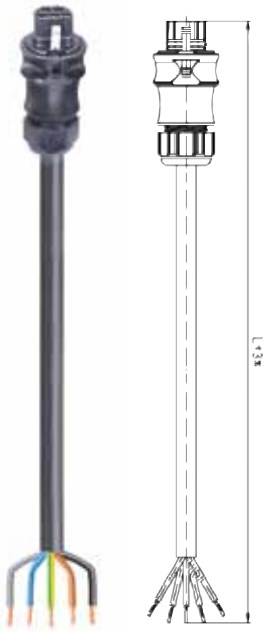
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V 1, 2, 3, N, ⏚	1.0	96.453.1000.1	96.453.1003.1	96.453.1004.1
	2,0	96.453.2000.1	96.453.2003.1	96.453.2004.1
	3.0	96.453.3000.1	96.453.3003.1	96.453.3004.1
	4.0	96.453.4000.1	96.453.4003.1	96.453.4004.1
	5.0	96.453.5000.1	96.453.5003.1	96.453.5004.1
	6.0	96.453.6000.1	96.453.6003.1	96.453.6004.1
	7.0	96.453.7000.1	96.453.7003.1	96.453.7004.1
	8.0	96.453.8000.1	96.453.8003.1	96.453.8004.1
Power 250V + Dimming L,⏚,N,D1,D2	1.0	96.453.1000.6	96.453.1003.6	96.453.1004.6
	2,0	96.453.2000.6	96.453.2003.6	96.453.2004.6
	3.0	96.453.3000.6	96.453.3003.6	96.452.3004.6
	4.0	96.453.4000.6	96.453.4003.6	96.453.4004.6
	5.0	96.453.5000.6	96.453.5003.6	96.453.5004.6
	6.0	96.453.6000.6	96.453.6003.6	96.453.6004.6
	7.0	96.453.7000.6	96.453.7003.6	96.453.7004.6
	8.0	96.453.8000.6	96.453.8003.6	96.453.8004.6
Switch.func. 250 V 1, 2, 3, 4, 5	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			
50V, LV, bus signals 1, 2, 3, 4, 5	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 2.5 mm², 20 A

H07RN-F 5G2.5

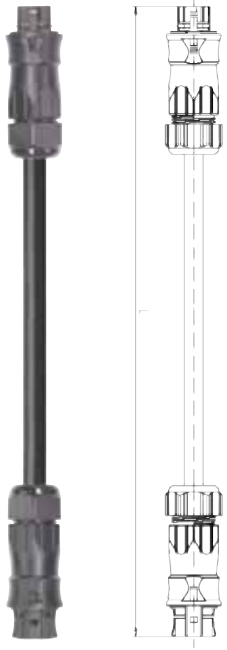
Insulating rubber compound

Power 250/400 V:
⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

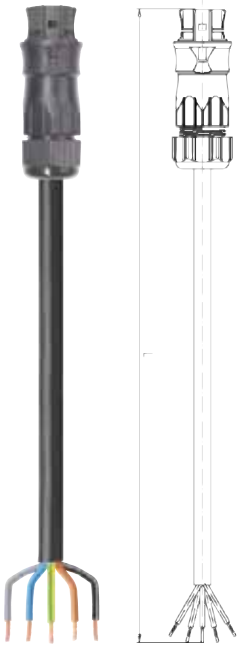
Power 250 V + Dimming:
⏚ = GN/YE
N = BU
L = BN
D2 = BK
D1 = GY

Cable[1]: black
Connector in black

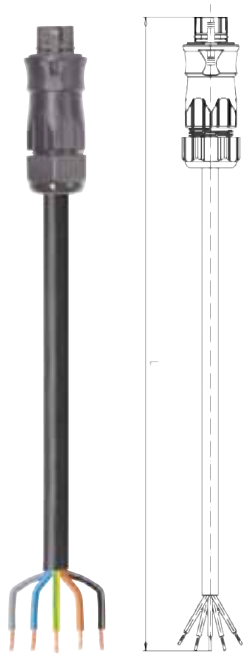
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V 1, 2, 3, N, ⏚	1.0	96.453.1030.1	96.453.1033.1	96.453.1034.1
	2,0	96.453.2030.1	96.453.2033.1	96.453.2034.1
	3.0	96.453.3030.1	96.453.3033.1	96.453.3034.1
	4.0	96.453.4030.1	96.453.4033.1	96.453.4034.1
	5.0	96.453.5030.1	96.453.5033.1	96.453.5034.1
	6.0	96.453.6030.1	96.453.6033.1	96.453.6034.1
	7.0	96.453.7030.1	96.453.7033.1	96.453.7034.1
	8.0	96.453.8030.1	96.453.8033.1	96.453.8034.1
Power 250V + Dimming L,⏚,N,D1,D2	1.0	96.453.1030.6	96.453.1033.6	96.453.1034.6
	2,0	96.453.2030.6	96.453.2033.6	96.453.2034.6
	3.0	96.453.3030.6	96.453.3033.6	96.453.3034.6
	4.0	96.453.4030.6	96.453.4033.6	96.453.4034.6
	5.0	96.453.5030.6	96.453.5033.6	96.453.5034.6
	6.0	96.453.6030.6	96.453.6033.6	96.453.6034.6
	7.0	96.453.7030.6	96.453.7033.6	96.453.7034.6
	8.0	96.453.8030.6	96.453.8033.6	96.453.8034.6
Switch.func. 250 V 1, 2, 3, 4, 5	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			
50V, LV, bus signals 1, 2, 3, 4, 5	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 4.0 mm², 20 A

H05VV-F 5G4.0

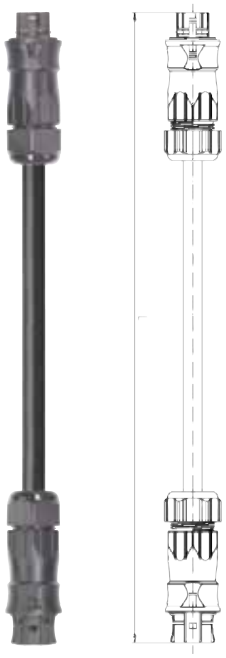
containing halogen (PVC)

Power 250/400 V:
⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

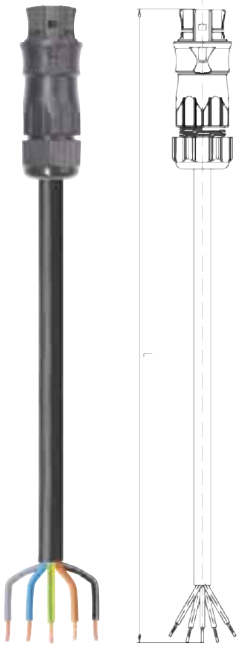
Power 250 V + Dimming:
⏚ = GN/YE
N = BU
L = BN
D2 = BK
D1 = GY

Cable[1]: black
Connector in black

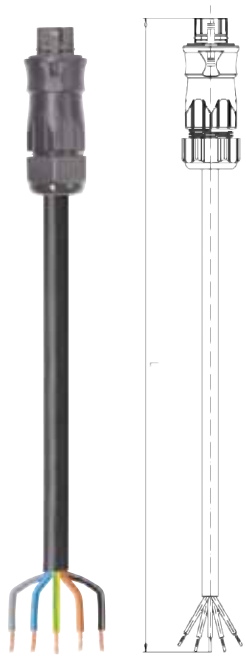
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V 1, 2, 3, N, ⏚ 	1.0	96.454.1000.1	96.454.1003.1	96.454.1004.1
	2,0	96.454.2000.1	96.454.2003.1	96.454.2004.1
	3.0	96.454.3000.1	96.454.3003.1	96.454.3004.1
	4.0	96.454.4000.1	96.454.4003.1	96.454.4004.1
	5.0	96.454.5000.1	96.454.5003.1	96.454.5004.1
	6.0	96.454.6000.1	96.454.6003.1	96.454.6004.1
	7.0	96.454.7000.1	96.454.7003.1	96.454.7004.1
	8.0	96.454.8000.1	96.454.8003.1	96.454.8004.1
Power 250V + Dimming L,⏚,N,D1,D2 	1.0	96.454.1000.6	96.454.1003.6	96.454.1004.6
	2,0	96.454.2000.6	96.454.2003.6	96.454.2004.6
	3.0	96.454.3000.6	96.454.3003.6	96.454.3004.6
	4.0	96.454.4000.6	96.454.4003.6	96.454.4004.6
	5.0	96.454.5000.6	96.454.5003.6	96.454.5004.6
	6.0	96.454.6000.6	96.454.6003.6	96.454.6004.6
	7.0	96.454.7000.6	96.454.7003.6	96.454.7004.6
	8.0	96.454.8000.6	96.454.8003.6	96.454.8004.6
Switch.func. 250 V 1, 2, 3, 4, 5 	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			
50V, LV, bus signals 1, 2, 3, 4, 5 	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 4.0 mm², 20 A

H07RN-F 5G4.0

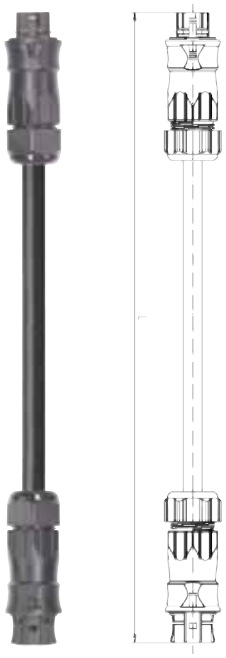
Insulating rubber compound

Power 250/400 V:
⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

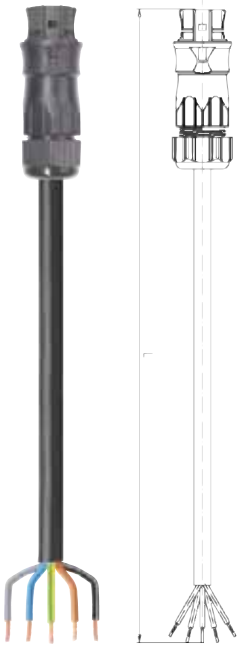
Power 250 V + Dimming:
⏚ = GN/YE
N = BU
L = BN
D2 = BK
D1 = GY

Cable[1]: black
Connector in black

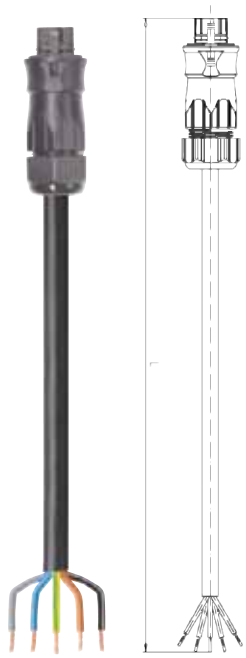
Screw technology



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V 1, 2, 3, N, ⏚	1.0	96.454.1030.1	96.454.1033.1	96.454.1034.1
	2,0	96.454.2030.1	96.454.2033.1	96.454.2034.1
	3.0	96.454.3030.1	96.454.3033.1	96.454.3034.1
	4.0	96.454.4030.1	96.454.4033.1	96.454.4034.1
	5.0	96.454.5030.1	96.454.5033.1	96.454.5034.1
	6.0	96.454.6030.1	96.454.6033.1	96.454.6034.1
	7.0	96.454.7030.1	96.454.7033.1	96.454.7034.1
	8.0	96.454.8030.1	96.454.8033.1	96.454.8034.1
Power 250V + Dimming L,⏚,N,D1,D2	1.0	96.454.1030.6	96.454.1033.6	96.454.1034.6
	2,0	96.454.2030.6	96.454.2033.6	96.454.2034.6
	3.0	96.454.3030.6	96.454.3033.6	96.454.3034.6
	4.0	96.454.4030.6	96.454.4033.6	96.454.4034.6
	5.0	96.454.5030.6	96.454.5033.6	96.454.5034.6
	6.0	96.454.6030.6	96.454.6033.6	96.454.6034.6
	7.0	96.454.7030.6	96.454.7033.6	96.454.7034.6
	8.0	96.454.8030.6	96.454.8033.6	96.454.8034.6
Switch.func. 250 V 1, 2, 3, 4, 5	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			
50V, LV, bus signals 1, 2, 3, 4, 5	1.0	on request	on request	on request
	2,0			
	3.0			
	4.0			
	5.0			
	6.0			
	7.0			
	8.0			

[1] Other cables available on request
[2] Other lengths available on request

Cable assemblies 2.5 mm², 20 A, Power 5 pole

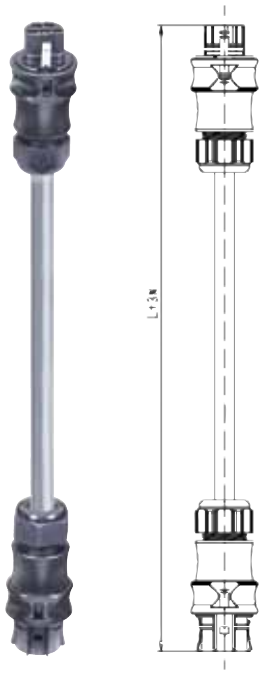
Oelflex Classic 110 5G2.5

containing halogen (PVC)

Power 250/400 V:
⏚ = GN/YE
N = BK4
1 = BK1
2 = BK2
3 = BK3

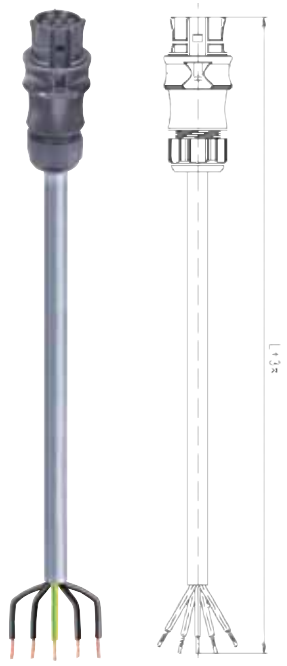
Cable[1]: gray
Connector in black

Screw technology



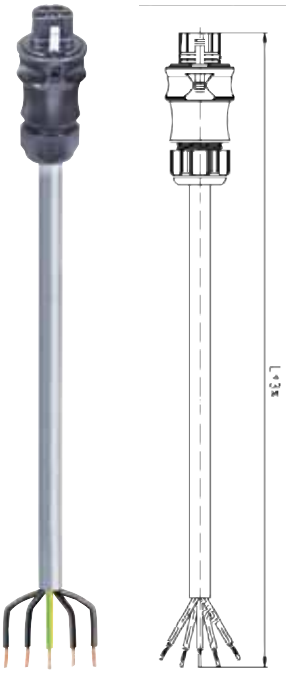
Female – Male

Extension cable	
Locking device	yes



Female – Free end

Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm

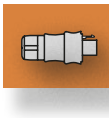


Male – Free end

Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes

Application	Length[2] m	Part No.	Part No.	Part No.
Power 250/400V 1, 2, 3, N, ⏚	1.0	96.453.1080.1	96.453.1083.1	96.453.1084.1
	2,0	96.453.2080.1	96.453.2083.1	96.453.2084.1
	3.0	96.453.3080.1	96.453.3083.1	96.453.3084.1
	4.0	96.453.4080.1	96.453.4083.1	96.453.4084.1
	5.0	96.453.5080.1	96.453.5083.1	96.453.5084.1
	6.0	96.453.6080.1	96.453.6083.1	96.453.6084.1
	7.0	96.453.7080.1	96.453.7083.1	96.453.7084.1
	8.0	96.453.8080.1	96.453.8083.1	96.453.8084.1

[1] Other cables available on request
[2] Other lengths available on request



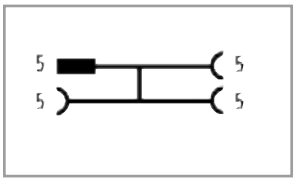
Distribution unit

RST compact distribution unit

Name	Color	Part No.
Distribution unit 5 pole	gray	on request
	black	96.050.0153.1

Dimensions (W x L x H)	104 x 162 x 57.2 mm
Input	1
Outputs	3
Routing 3 outputs 230/400V, 20A	RST20i5 coding color black
Prewired with	2.5 mm²
Fastening options	yes

Circuit diagram



RST multi-distribution unit

Name	Color	Part No.
RST multi-distribution unit	black	on request

Detailed information about the distribution units available in section "Distribution units".

Dimensions (W x L x H)	104 x 162 x 96 mm
Fitted as required with	M25 device connectors 2 – 5-pole
Input	1
Outputs	7 (max.)
Prewired with	2.5 mm²
Fuses	6.3 or 10A can be integrated

Accessories

Female connector
4 to 5 pole

Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 4 to 5 pole	Pole: 4 to 5 pole
	Safe locking device: unused male connectors	Safe locking device: unused male connectors
gray	05.565.9953.0	99.531.0000.7
black	05.565.9953.1	99.532.0000.7

Male connector
4 to 5 pole

Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 4 to 5 pole	Pole: 4 to 5 pole
	Safe locking device: unused female connectors	Safe locking device: unused female connectors
gray	Z5.565.9853.0	99.529.0000.7
black	Z5.565.9853.1	99.530.0000.7

Accessories

Crimp contacts*
Female contacts

Name	Marking	Marking (groove) mm²	Part No.	Units per pack
Crimp contact	unmarked	0.75 – 1.0	02.125.5521.8	100
Crimp contact	1	1.5	02.125.5621.8	100
Crimp contact	2	2.5	02.125.5721.8	100
Crimp contact	3	4.0	02.125.5821.8	100

* Available on straps or in magazines on request

Crimp contacts*
Male contacts

Name	Marking	Marking (groove) mm²	Part No.	Units per pack
Crimp contact	unmarked	0.75 – 1.0	05.545.0021.8	100
Crimp contact	1	1.5	05.545.0121.8	100
Crimp contact	2	2.5	05.545.0221.8	100
Crimp contact	3	4.0	05.545.0321.8	100

* Available on straps or in magazines on request

Crimping tool

Name	Part No.
Crimping tool incl. system kit	95.101.0800.0
Crimping die B	05.502.2100.0
Contact positioner	05.502.3600.0

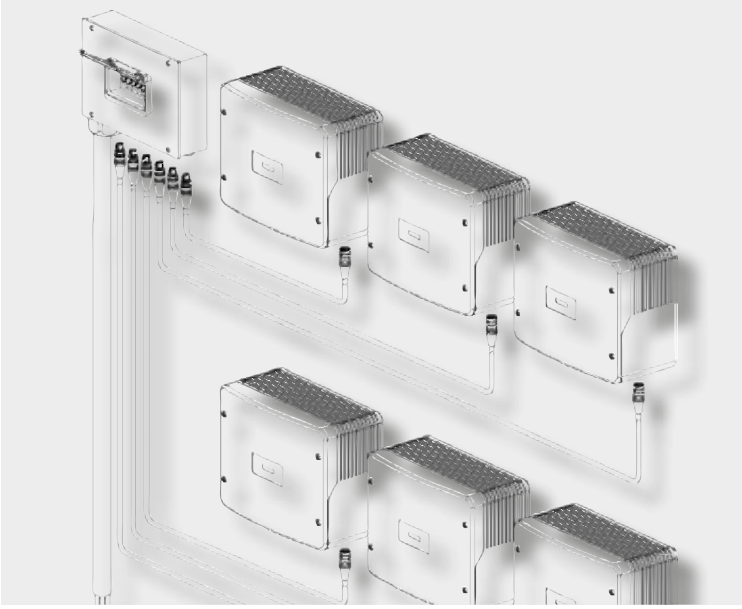
Unlocking tool
for crimp contacts

Name	Part No.
Unlocking tool	05.502.3500.0

RST 25i5

Solar applications up to 25 A for single-phase supply with three-phase power monitoringor three-phase supply

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 distribution boxes are used to bundle the electrical power of up to 6 inverters and thus complete 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.

Features:

- Fast mounting through easy handling
- UV-resistant
- Rated current up to 25 A
- Cross-sections up to 4 mm²
- Degree of protection IP 65 … IP 68 (on request)

AC SOLAR SYSTEM CONNECTOR

Coding

				Application	3-phase monitoring 250/400 V, 25 A
				Mechanical coding	L, N, ⏚, 1, 2
Name	Description	Connection style	Strain relief housing	Connection points per pole	concrete gray
Connectors	1 x cable entry	Screw	yes	1	
Distribution unit	Distribution box RST RAN Solar				
	Distribution box RST Solar				
Device connectors	M25 device connector, standard				
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	
	Connection cable Female – Free end				
	Extension cable Male – Female				

Connectors, 25 A

Female connector

Application	Coding	Color	Part No.	Part No.
			Screw technology for cable Ø 10 –14 mm	**Screw technology for cable Ø 13 –18 mm**
			Wire / solid / fine-stranded: mm² up to 4.0; without ferrules	Wire / solid / fine-stranded: mm² up to 4.0; without ferrules
3-phase supply 250/400 V, 25 A	L,N,⏚,1,2	concrete gray/ black	96.051.4154.3	96.051.4554.3

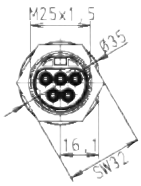
Male connector

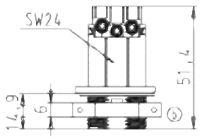
Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
				Screw technology for cable Ø 10 –14 mm	**Screw technology for cable Ø 13 –18 mm**
				Wire / solid / fine-stranded: mm² up to 4.0; without ferrules	Wire / solid / fine-stranded: mm² up to 4.0; without ferrules
3-phase supply 250/400 V, 25 A	L,N,⏚,1,2		concrete gray/ black	96.052.4154.3	96.052.4554.3

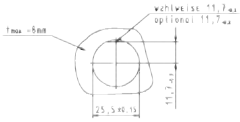
M 25 device connector, 25 A

Female connector
with sealing option

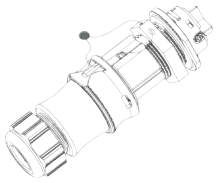
For spacer rings for unlocking at the device connector, see Accessories.



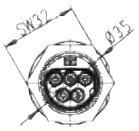


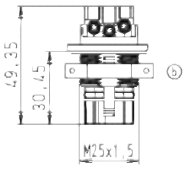
Application	Coding	Color	Part No.
3-phase supply 250/400 V, 25 A		concrete gray/ black	96.051.5054.3

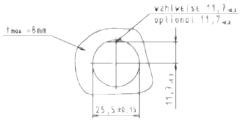
Screw technology		
Wire	mm²	
solid	up to 4.0	without ferrules
fine-stranded		



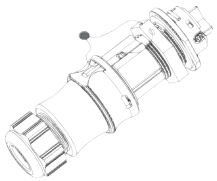
Male connector
with sealing option





Application	Coding	Color	Part No.
3-phase supply 250/400 V, 25 A		concrete gray/ black	96.052.5054.3

Screw technology		
Wire	mm²	
solid	up to 4.0	without ferrules
fine-stranded		



Distribution unit

Distribution box RST RAN Solar

Name	Material	Part No.
RST RAN Solar	Sheet metal/ powder-coated	99.527.0000.7

Detailed information about the distribution units available in section "Distribution units".

Inputs	6 x RST25i5 / concrete gray coding
Cable gland	1 x M40, 2 x M20
Connector clamps	5 x 35 mm²
Circuit breakers	6 x B25
Dimensions in mm (L x W x H)	350 x 300 x 100 mm

Distribution box RST Solar

Distribution box RST Solar	Plastic	99.528.0000.7

Detailed information about the distribution units available in section "Distribution units".

Inputs	3 RST25i5 / concrete gray coding
Cable gland	1 x M32, 2 x M20
Connector clamps	5 x 10 mm²
Dimensions in mm (L x W x H)	180 x 180 x 90 mm

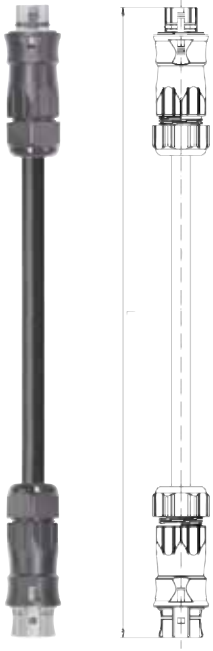
Cable assemblies 4.0 mm², 25 A

H05VV-F 5G4.0[1)]

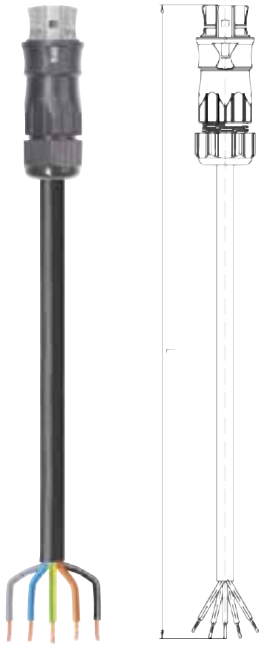
N = BU
L = GY
⏚ = GN/YE
1 = BN
2 = BK

The cable colors have been adapted to the new European standard HD 208 S2. The assignment corresponds to international recommendations.

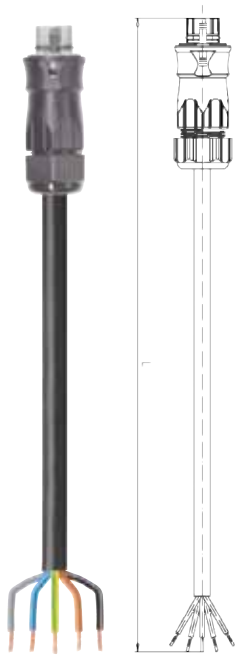
Cable: black
Coding: concrete gray/ black



Female – Male	
Extension cable	
Locking device	yes



Female – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Cable diameter H05VV-F[3)]	13.0 – 16.1 mm



Male – Free end	
Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes
Cable diameter H05VV-F[3)]	13.0 – 16.1 mm

Application	Length[2)] m	Part No.	Part No.	Part No.
3-phase supply 250/400 V, 25 A L, N, ⏚, 1, 2	1.0	96.854.1000.3	96.854.1003.3	96.854.1004.3
	1.5	96.854.1500.3	96.854.1503.3	96.854.1504.3
	2.0	96.854.2000.3	96.854.2003.3	96.854.2004.3
	2.5	96.854.2500.3	96.854.2503.3	96.854.2504.3
	3.0	96.854.3000.3	96.854.3003.3	96.854.3004.3
	3.5	96.854.3500.3	96.854.3503.3	96.854.3504.3
	4.0	96.854.4000.3	96.854.4003.3	96.854.4004.3

[1)] Other cables available on request
[2)] Other lengths available on request
[3)] According to VDE 0281/T5 and VDE 0288/T4

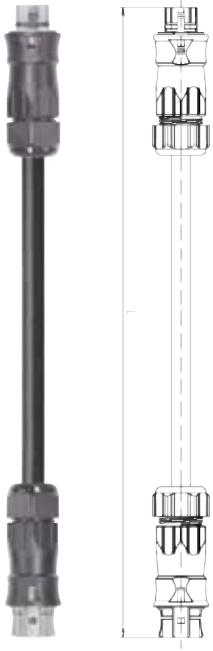
Cable assemblies 4.0 mm², 25 A

H07RN-F 5G4.0[1)]

N = BU
L = GY
⏚ = GN/YE
1 = BN
2 = BK

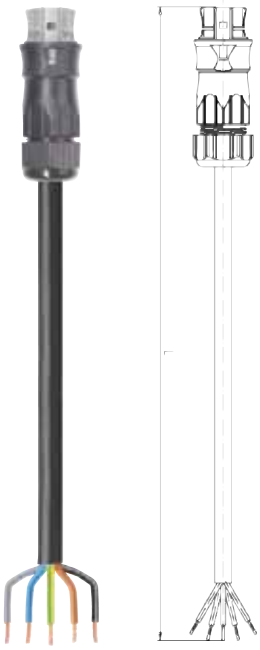
The cable colors have been adapted to the new European standard HD 208 S2. The assignment corresponds to international recommendations.

Cable: black
Coding: concrete gray/ black



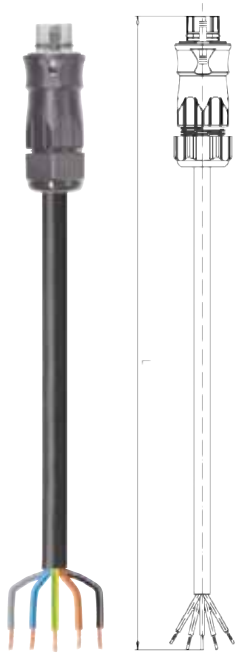
Female – Male

Extension cable	
Locking device	yes



Female – Free end

Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Cable diameter H07RN-F[3)]	15.6 – 19.9 mm



Male – Free end

Connection cable	
Wire ends	ultrason. welded
Sheath strip length	35 mm
Insul. strip length	9 mm
Locking device	yes
Cable diameter H07RN-F[3)]	15.6 – 19.9 mm

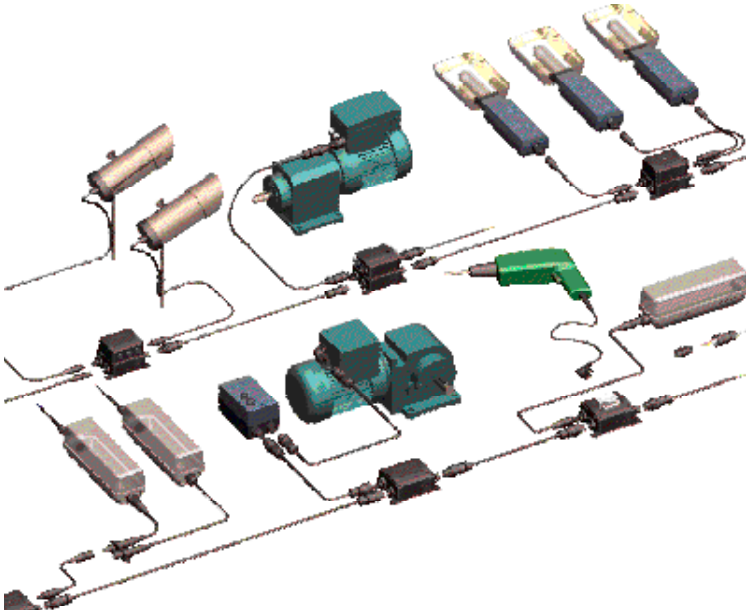
Application	Length[2)] m	Part No.	Part No.	Part No.
3-phase supply 250/400 V, 25 A L, N, ⏚, 1, 2	1.0	96.854.1030.3	96.854.1033.3	96.854.1034.3
	1.5	96.854.1530.3	96.854.1533.3	96.854.1534.3
	2.0	96.854.2030.3	96.854.2033.3	96.854.2034.3
	2.5	96.854.2530.3	96.854.2533.3	96.854.2534.3
	3.0	96.854.3030.3	96.854.3033.3	96.854.3034.3
	3.5	96.854.3530.3	96.854.3533.3	96.854.3534.3
	4.0	96.854.4030.3	96.854.4033.3	96.854.4034.3

[1)] Other cables available on request
[2)] Other lengths available on request
[3)] According to VDE 0281/T5 and VDE 0288/T4

Distribution units

For use in rough environments

Application example



General

The pluggable distribution units play a major role in power distribution. In their simplest function, they merely have to provide branches in the required locations. Practice shows, however, that the requirements may be much more complex.

Examples can be found in AC and DC wiring through distribution units with fine fuses up to boxes with integrated safety outlets or switches.
Two housing variations are the basis: a low-profile design with up to four slots, and a high-profile design with a total of up to eight slots.
Unused slots are closed during production.

Compact and multi-distribution units

Flexibility according to the modular RST principle

The highest level of flexibility!

Two housing variations are the basis: a flat design with up to four slots, and a high design with a total of up to eight slots. Unused slots are closed during production.
The distribution units are equipped individually using M25 device connectors.
These are available in various pole configurations, with mechanical coding and designs; they are customized using 2.5 mm² wires. Larger cross sections are available upon request.

Overview of the standard components:

Depending on the application, you can choose among 15 codings. Mechanically coded means that only the matching male and female connectors can be plugged together. Thus you can be sure that your different applications are clearly distinguished – without having to rework incorrect connections.

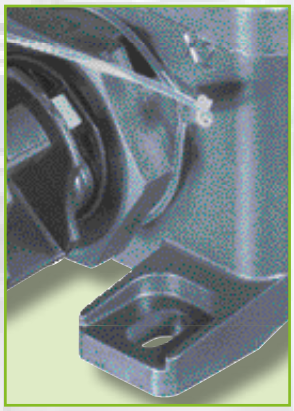
The connector colors signal the matching connections. The standard power coding is an exception. Here you can select between black and gray. These are compatible with one another.

RST 20i2	RST 20i3	RST 25i3	RST 20i4	RST 20i5	RST 25i5
Spring clamp Screw Female or Male **Protection class II** Pole designation **L, N** Coding: black, gray	**Spring clamp Screw** Female or Male **Power 250 V** Pole designation **L, N, ⏚** Coding: black, gray	**Screw** Female or Male **Single-phase supply (ENS)** Pole designation **L, N, ⏚** Coding: concrete gray	**Crimping Screw** Female or Male **Power 250/400 V** Pole designation **⏚, 1, 2, 3** Coding: black, gray	**Spring clamp Screw** Female or Male **Power 250/400 V** Pole designation **⏚, N, 3, 2, 1** Coding: black, gray	**Screw** Female or Male Single-phase **infeed with 3-phase monitoring or 3-phase infeed with 3-phase monitoring** Pole designation **L, N, ⏚, 1, 2** Coding: concrete gray
Spring clamp Screw Female or Male **LV, signals bus 50 V** Pole designation **1, 2** Coding: brown	**Spring clamp Screw** Female or Male **Power 250/400 V** Pole designation **1, 2, ⏚** Coding: green		**Crimping Screw** Female or Male **AS-i / 24 V** Pole designation **1, 2, 3, 4** Coding: brown	**Spring clamp Screw** Female or Male **LV, signals, bus, 50 V** Pole designation **1, 2, 3, 4, 5** Coding: brown	
Spring clamp Screw Female or Male **AS-i** Pole designation **+, –** Coding: pebble gray	**Spring clamp Screw** Female or Male **LV, signals, bus, 50 V** Pole designation **1, 2, ⏚** Coding: brown			**Spring clamp Screw** Female or Male **Power 250 V + dimming** Pole designation **L, N, ⏚, D1, D2** Coding: turquoise	
	Spring clamp Screw Female or Male **Switch. function 230 V** Pole designation **1, 2, 3** Coding: light blue			**Spring clamp Screw** Female or Male **Switch. function 230 V** Pole designation **1, 2, 3, 4, 5** Coding: blue	

Mounting

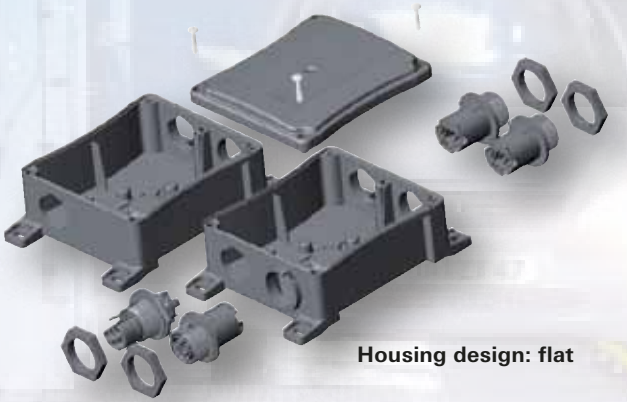
Four fixing clips on the outside ensure easy installation and safe fixation.

At the bottom, there are also fixing holes for attachment of a special mounting plate.



Unlocking

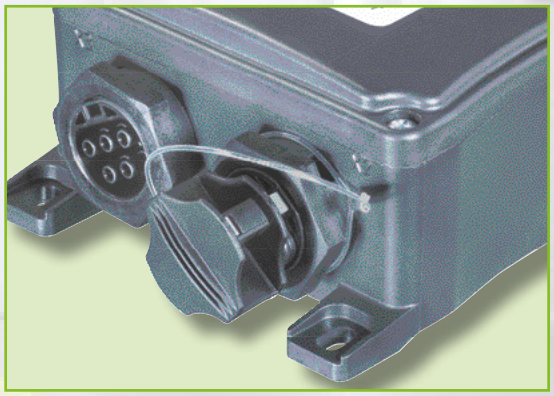
All pluggable connections are protected against accidental loosening. This is guaranteed by a locking facility integrated during production. On plug-in, the locking facility latches with an audible click. The connection is released using a screwdriver.

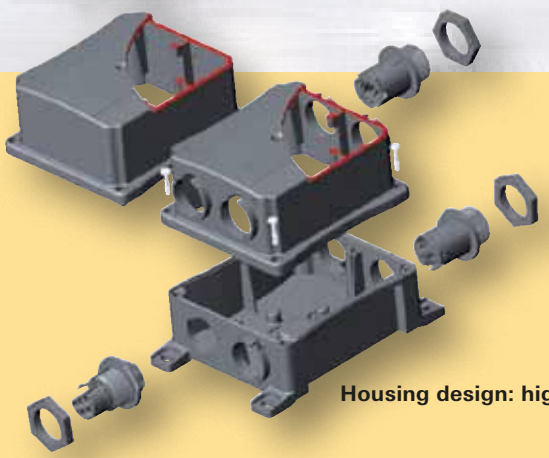


Housing design: flat

Cover pieces

Cover pieces are required for safely covering unused outputs. These are available either with or without protection against loss.

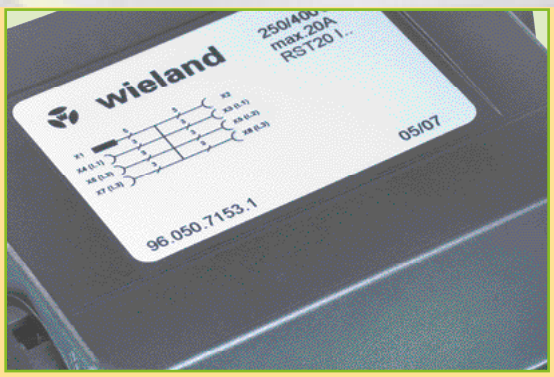




Housing design: high

Circuit diagram

A circuit diagram on the housing cover provides information about the internal wiring.
The outputs are numbered from X1 to X8.



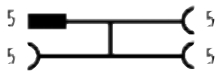
Compact distribution units with max. 4 slots

RST compact distribution unit

Name	Color	Part No.
Distribution unit 5 pole	gray	aon request
	black	96.050.0153.1

Dimensions (L x W x H)	104 x 162 x 57.2 mm
Input	1
Outputs	3
Routing 3 outputs 230/400V, 20A	RST20i5 coding color black
pre-wired with	2.5 mm²
Fastening option	yes

Circuit diagram



RST compact distribution unit

Name	Color	Part No.
Distribution unit 5 pole	gray	on request
	black	96.050.1153.1

Dimensions (L x W x H)	104 x 162 x 57.2 mm
Input	1
Outputs	2
Routing 2 outputs 230/400V, 20A	RST20i5 coding color black
pre-wired with	2.5 mm²
Fastening option	yes

Circuit diagram

RST compact distribution unit

Name	Color	Part No.
Distribution unit 5 pole	gray	on request
	L1 black	96.050.3153.1
	L2 black	96.050.4153.1
	L3 black	96.050.5153.1

Dimensions (L x W x H)	104 x 162 x 57.2 mm
Input	1
Outputs	2
Routing 1 output 230/400V, 20A	RST20i5 coding color black
Routing 2 output 230V, 20A	RST20i3 coding color black
pre-wired with	2.5 mm²
Fastening option	yes

Circuit diagram

RST compact distribution unit

Name	Color	Part No.
Distribution unit 5 pole	gray	aon request
	black	96.050.6153.1

Dimensions (L x W x H)	104 x 162 x 57.2 mm
Input	1
1 Input 230/400V, 20A	RST20i5 coding color black
Outputs	3, L1, L2, L3
3 Outputs 230V, 20A	RST20i3 coding color black
pre-wired with	2.5 mm²
Fastening option	yes

Circuit diagram

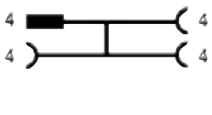
AS-i distribution unit

Distribution box AS-i / 24V

Name	Color	Part No.
Verteiler 4-polig	black	96.040.0151.4
	gray	on request

Dimensions (L x W x H)	104 x 162 x 57.2 mm
Input	1
Outputs	3
Routing 3 outputs 230/400V, 20A	RST20i4 Coding color brown
pre-wired with	2.5 mm²
Fastening option	yes

Circuit diagram



Multi-distribution units with max. 8 slots

Multi-distribution unit 5/3 pole, 1I/7O, 2x L1, L2, L3

Name	Color	Part No.
Multi-distribution unit 5/3 pole	gray	on request
	black	96.050.7153.1

Dimensions (L x W x H)	104 x 162 x 96 mm
Input	1
Outputs	7
Routing 230/400V, 20A	1, RST20i5 coding color black
230V, 20A	6, RST20i3 coding color black

Circuit diagram

Multi-distribution unit 5/3 pole 1I/3O, L1, L2, L3

Name	Color	Part No.
Multi-distribution unit 5/3 pole	gray	on request
	black	99.902.0000.7

Dimensions (L x W x H)	104 x 162 x 96 mm
Input	1
Outputs	4
Routing 230/400V, 20A	1, RST20i5 coding color black
230V, 20A	3, RST20i3 coding color black

Circuit diagram

Multi-distribution unit 5/3 pole 1I/3O, L1, L2, L3

Name	Color	Part No.
Multi-distribution unit 5/3 pole	gray	on request
	black	99.901.0000.7

Dimensions (L x W x H)	104 x 162 x 96 mm
Input 230/400 V, 20 A	1, RST20i5 coding color black
Outputs	
230V, with integrated fine fuse holder up to 10 A	3, RST20i3 coding color black
incl. fine fuse	10 A, 5 x 20 mm

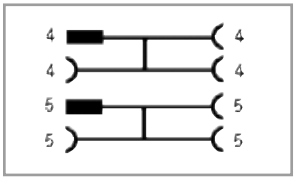
Circuit diagram

Distribution box Power and AS-i / 24 V

Name	Color	Part No.
Distribution box	black	99.903.0000.7

Dimensions (L x W x H)	104 x 162 x 96 mm
Input Power 230/400 V, 20 A	1
Outputs	3, RST20i5 coding color black
Power 230/400 V, 20 A	
Input AS-i/24 V, 20 A	1
Outputs	3, RST20i4 coding color brown
AS-i/24V, 20 A	

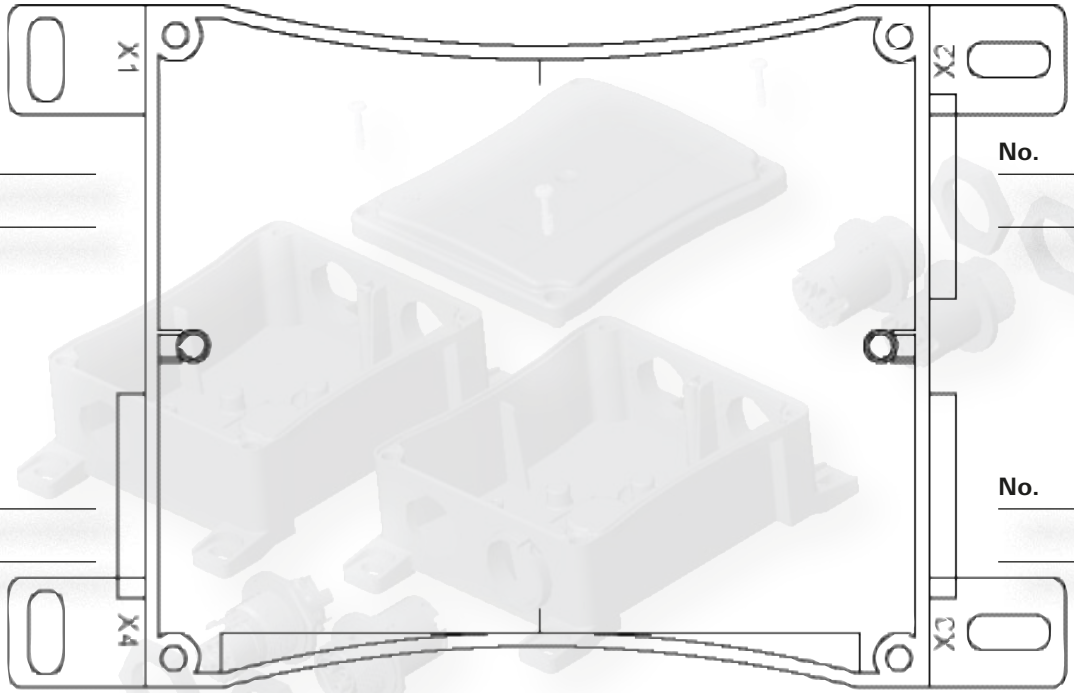
Circuit diagram



Request for special version – please complete and return by fax to: +49-951-93 26-996

Eingang
IN

Ausgang
OUT



No. _____

No. _____

No. _____

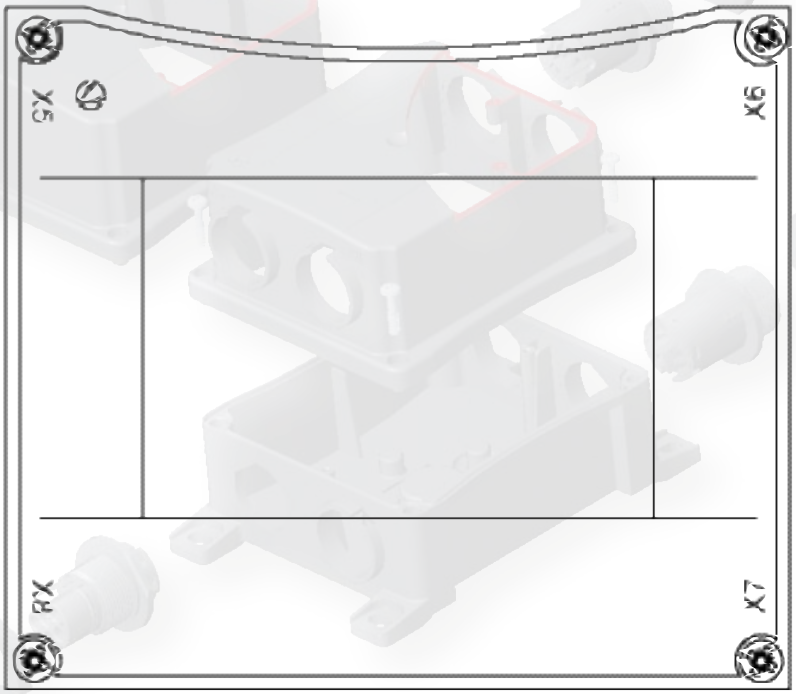
No. _____

Ausgang oder verschlossen
OUT OR CLOSED

Ausgang oder verschlossen
OUT OR CLOSED

Eingang, Ausgang
oder verschlossen
IN, OUT OR CLOSED

Ausgang oder verschlossen
OUT OR CLOSED



No. _____

No. _____

No. _____

No. _____

Ausgang oder verschlossen
OUT OR CLOSED

Ausgang oder verschlossen
OUT OR CLOSED

Bitte die benötigten Komponenten (Artikelnummer oder Polzahl und Color) ergänzen und Verdrahtung einzeichnen.
Please add required components (either article code oder numer of poles and color) and the wiring scheme.

Multi-distribution units, radio, halogen technology

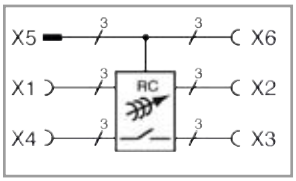
Switching output EnOcean 4-fold

Name	Color	Part No.
gesis RC RST-0/4	black	83.020.0505.0

For radio switches and transmitters, see Accessories.

Dimensions (L x W x H)	104 x 162 x 96 mm
Input power (male connector)	230V AC/20A (cod. black)
Output power (female connector)	230V AC/20A (cod. black)
Switched outputs (female connector)	4, separate control poss., 230V each, 6A
Control	e.g. EnOcean radio switch
Degree of protection	IP68 (all connections plugged in or closed)
Ambient temperature	-25 °C to +55 °C
Fastening option	yes, 4 elongated holes
Electrical connections	pluggable with RST20i2 … 20i3

Circuit diagram



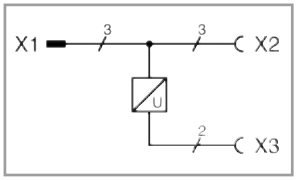
Transformer for low voltage halogen lamps, 12V AC

Name	Color	Part No.
gesis RST PSU 12/70 LVH	black	83.020.0904.0

For distribution units for parallel connection of halogen lamps, see Chapter RST20i2.
Unused connections must be closed, see Accessories.

Dimensions (L x W x H)	104 x 162 x 96 mm
Input power (male connector)	230V AC/20A (cod. black)
Output power (female connector)	230V AC/20A (cod. black)
Output LV halogen (female connector)	12V AC/20 – 70W (cod. brown)
Output LV halogen cable length	max. 2 m
Degree of protection	IP68 (all connections plugged in or closed)
Ambient temperaturs	0 °C to +45 °C (derating from 35 °C)
Fastening option	yes, 4 elongated holes
Electrical connections	pluggable with RST20i2 … 20i3

Circuit diagram



Multi-distribution units, LED technology

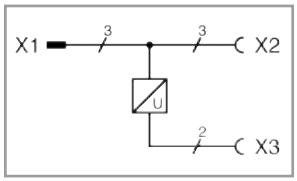
Constant voltage source, 12 V DC

Name	Color	Part No.
gesis RST PSU 12/12 LED	black	83.020.0900.0

For distribution units for parallel connection of LED lapms, see Chapter RST20i2.
Unused connections must be closed, see Chapter Accessories.

Dimensions (L x W x H)	104 x 162 x 96 mm
Input power (male connector)	230V AC/20A (cod. black)
Outout power (female connector)	230V AC/20A (cod. black)
Output LED (female connector)	12V DC/max. 12W (cod. brown)
Degree of protection	IP68 (all connections plugged in or closed)
Ambient temperature	-25 °C to +55 °C
Fastening option	yes, 4 elongated holes
Electrical connections	pluggable with RST20i2 … 20i3

Circuit diagram



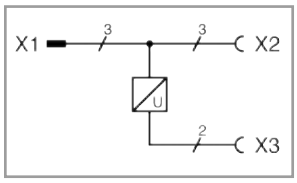
Constant voltage source, 24 V DC

Name	Color	Part No.
gesis RST PSU 24/12 LED	black	83.020.0901.0

For distribution units for parallel connection of LED lamps, see Chapter RST20i2.
Unused connections must be closed, see Chapter Accessories.

Dimensions (L x W x H)	104 x 162 x 96 mm
Input power (male connector)	230V AC/20A (cod. black)
Output power (female connector)	230V AC/20A (cod. black)
Output LED (female connector)	24V DC/max. 12W (cod. brown)
Degree of protection	IP68 (all connections plugged in or closed)
Ambient temperature	-25 °C to +55 °C
Fastening option	yes, 4 elongated holes
Electrical connections	pluggable with RST20i2 … 20i3

Circuit diagram



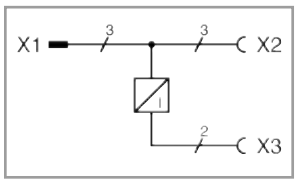
Constant current source, 350 mA DC

Name	Color	Part No.
gesis RST PSI 350/12 LED	black	83.020.0902.0

For distribution units for serial connection of LED lamps, see Chapter RST20i2.
Unused connections must be closed, see Chapter Accessories.

Dimensions (L x W x H)	104 x 162 x 96 mm
Input power (male connector)	230V AC/20A (cod. black)
Output power (female connector)	230V AC/20A (cod. black)
Output LED (female connector)	350 mA DC/max. 12W (cod. brown)
Degree of protection	IP68 (all connections plugged in or closed)
Ambient temperature	-25 °C to +55 °C
Fastening option	yes, 4 elongated holes
Electrical connections	pluggable with RST20i2 … 20i3

Circuit diagram



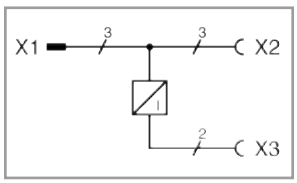
Constant current source, 700 mA DC

Name	Color	Part No.
gesis RST PSI 700/12 LED	black	83.020.0903.0

For distribution units for serial connection of LED lamps, see Chapter RST20i2.
Unused connections must be closed, see Chapter Accessories.

Dimensions (L x W x H)	104 x 162 x 96 mm
Input power (male connector)	230V AC/20A (cod. black)
Output power (female connector)	230V AC/20A (cod. black)
Output LED (female connector)	700 mA DC/max. 12W (cod. brown)
Degree of protection	IP68 (all connections plugged in or closed)
Ambient temperature	-25 °C to +55 °C
Fastening option	yes, 4 elongated holes
Electrical connections	pluggable with RST20i2 … 20i3

Circuit diagram



Accessories

Multivendor radio switch, 2/4 channels

Batteryless and maintenance-free radio switches with 2/4 channels for direct control of the actuators. The rockers in neutral center position are marked with I/O or Up/Down (△▼) symbols. These 55x55mm switches enable installation in various designs of various manufacturers.

Type	Color	Part No.	Marking
Radio switch, 2 channels	white	F0.000.0005.6	I / 0
	anthracite	F0.000.0007.5	I / 0
	aluminum finish	F0.000.0007.6	I / 0
Radio switch, 2 channels	white	F0.000.0005.8	(△▼)
	anthracite	F0.000.0007.7	(△▼)
	aluminum finish	F0.000.0007.8	(△▼)
Radio switch, 4 channels	white	F0.000.0005.7	I / 0
	anthracite	F0.000.0009.9	I / 0
	aluminum finish	F0.000.0008.0	I / 0
Radio switch, 4 channels	white	F0.000.0005.9	(△▼)
	anthracite	F0.000.0008.1	(△▼)
	aluminum finish	F0.000.0008.2	(△▼)

– Batteryless and maintenance-free
– For mounting on flat surfaces with screws or adhesive pads (included in delivery)
– The radio switches fit the frames with 55mm installation size of the vendors and their designs listed:
Berker: S1, B1, B3, B7 Glas
Gira: Standard 55, E2, Event, Esprit
Jung: A500, A plus
Merten: M-Smart, M-Arc, M-Plan

Multivendor radio switches with 2/4 channels (light) (I / 0)
– the rockers are imprinted with I/0 symbols

Multivendor radio switches with 2/4 channels (sunblind) (Up / Down)(△▼)
– the rockers are imprinted with Up/Down (△▼) symbols

Accessories

Handheld radio transmitter, 4 channels

Batteryless and maintenance-free 4-channel handheld transmitter for direct control of the actuators.

Type	Color	Part No.
Handheld radio transmitter	pure white RAL 9010	F0.000.0009.1
Handheld radio transmitter	black RAL 9005	F0.000.0009.2
Handheld radio transmitter	silver finish	F0.000.0009.3

Handheld radio transmitter
– Batteryless and maintenance-free
– For stick-on surface mounting or as a handheld remote control.

Radio switch, 2/4 channels

Batteryless and maintenance-free radio switches with 2/4 channels for direct control of the actuators. The rockers in neutral center position are marked with I/O or Up/Down (△▼) symbols. Between the rockers, there is a marking field with detachable marking strips. The following combination frames fit these radio switches.

Type	Color	Part No.	Marking
Radio switch, 2 channels	white	F0.000.0002.1	I / 0
	aluminum finish	F0.000.0004.4	I / 0
	white	F0.000.0002.2	(△▼)
	aluminum finish	F0.000.0004.5	(△▼)
Radio switch, 4 channels	white	F0.000.0002.3	I / 0
	aluminum finish	F0.000.0004.6	I / 0
	white	F0.000.0002.4	(△▼)
	aluminum finish	F0.000.0004.7	(△▼)

– Batteryless and maintenance-free
– For mounting on plane surfaces with screws or adhesive pads (included in delivery)

Radio switch, 2/4 channels (light) I / 0
– the rockers are imprinted with I/0 symbols
Radio switch, 2/4 channels (sunblind) Up / Down
– the rockers are imprinted with Up/Down (△▼) symbols

Combination frames must be ordered separately.

Combination frames for radio switches with 2/4 channels

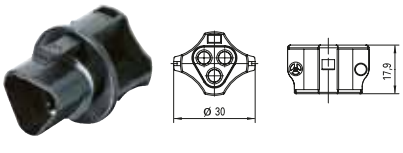
Frame for installation of the 2/4 channel radio switches for vertical or horizontal mounting.

Type	Color	Part No.
Combination frame, single	white	F0.000.0002.5
	aluminum finish	F0.000.0004.8
Combination frame, double	white	F0.000.0002.6
	aluminum finish	F0.000.0004.9
Combination frame, triple	white	F0.000.0003.5
	aluminum finish	F0.000.0009.7

Combination frames, 1-fold to 3-fold
– match the radio switches
– not suitable for multivendor radio switches

Accessories – Cover pieces

Female connector
2 to 3 pole



Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 2 – 3 pole	Pole: 2 – 3 pole
	Safe locking device: unused male connectors	Safe locking device: unused male connectors
gray	05.564.4453.0	99.415.6205.2
black	05.564.4453.1	99.416.6205.2

Male connector
2 to 3 pole

Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 2 – 3 pole	Pole: 2 – 3 pole
	Safe locking device: unused female connectors	Safe locking device: unused female connectors
gray	Z5.564.4553.0	99.413.6205.2
black	Z5.564.4553.1	99.414.6205.2

Female connector
4 to 5 pole

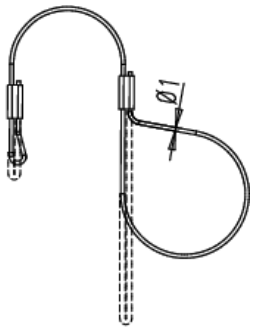
Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 4 – 5 pole	Pole: 4 – 5 pole
	Safe locking device: unused male connectors	Safe locking device: unused male connectors
gray	05.565.9953.0	99.531.0000.7
black	05.565.9953.1	99.532.0000.7

Male connector
4 to 5 pole

Color	Part No.	Part No.
	not captive against loss	**captive against loss**
	Pole: 4 – 5 pole	Pole: 4 – 5 pole
	Safe locking device: unused female connectors	Safe locking device: unused female connectors
gray	Z5.565.9853.0	99.529.0000.7
black	Z5.565.9853.1	99.529.0000.7

Accessories

Fastening cord

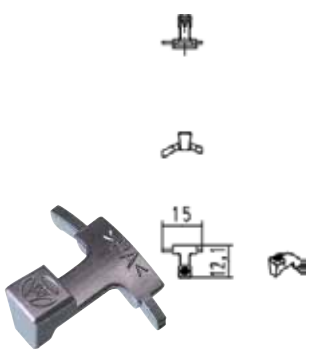


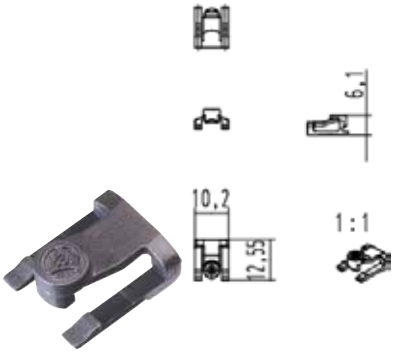
Color	Part No.
	Fastening cord
	Pole: 2 – 5 pole Cover pieces
gray	99.000.9950.0

Manual disconnect*

With manual disconnect, only one button must be pressed to easily disconnected the connections.

Also see the Mounting Instructions!



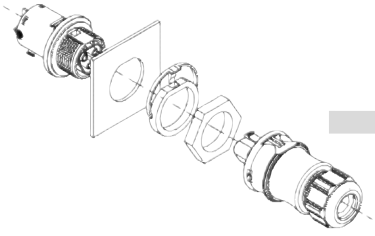


Color	Part No.	Part No.
	Retrofitting plug connectors (female connector)	**Retrofitting pre-assembled cables**
	Pole: 2 – 5 pole	Cable: RST20i2, RST20i3
	Can only be integrated into female connectors!	Version: Shrinkage tube
black	05.564.8653.1	05.565.8653.1
concrete gray	05.564.8653.3	05.565.8653.3
green	05.564.8653.7	05.565.8653.7

* 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"!

Spacer ring for M25 device connectors, Female connector 2 to 5 poles

A spacer ring makes it possible to unlock a connection at the device connector.



Color	Part No.	Part No.
	With manual activation	Screwdriver activation
gray	05.568.8853.0	05.566.5253.0
black	05.568.8853.1	05.566.5253.1

Accessories

Crimp contacts*
Female contacts

Name	Marking (groove) mm²		Part No.	Units per pack
Crimp contact	unmarked	0.75 – 1.0	02.125.5521.8	100
Crimp contact	1	1.5	02.125.5621.8	100
Crimp contact	2	2.5	02.125.5721.8	100
Crimp contact	3	4.0	02.125.5821.8	100

* Available on straps or in magazines on request

Crimp contacts*
Male contacts

Name	Marking (groove) mm²		Part No.	Units per pack
Crimp contact	unmarked	0.75 – 1.0	05.545.0021.8	100
Crimp contact	1	1.5	05.545.0121.8	100
Crimp contact	2	2.5	05.545.0221.8	100
Crimp contact	3	4.0	05.545.0321.8	100

* Available on straps or in magazines on request

Crimping tool

Name	Part No.
Crimping tool incl. system kit	95.101.0800.0
Crimping die B	05.502.2100.0
Contact positioner	05.502.3600.0

Unlocking tool
for crimp contacts

Name	Part No.
Unlocking tool	05.502.3500.0

Accessories

Screwdriver
acc. DIN 5264

Name	Part No.
Screwdriver	06.502.4300.0

for RST spring clamp connections	
Blade	0.4 –2.5 mm

Insertion tool
For termination points with spring clamp technology

Name	Part No.
Insertion tool	95.101.1300.0

Spring clamp technology	
Ferrules	0.08 – 6.0 mm², AWG 28 – 10
Total length	174 mm

– Square compression
– Releasable latch
– Compression adjustable

Ferrules

Name	mm²	Color	Part No.
Ferrules	0.50	white	06.600.3827.0
Ferrules	0.75	gray	06.600.3727.0
Ferrules	1.00	red	06.600.3627.0
Ferrules	1.50	black	06.600.3927.0

For RST 20i3 spring clamp connectors	
Insulating sleeve	yes
for wires of	
0.50 mm²	DIN 46228-E0,5-10
0.75 mm²	DIN 46228-E0,75-12
1.00 mm²	DIN 46228-E1,0-12
1.50 mm²	DIN 46228-E1,5-12

Material	
Sleeve	Polypropylene
Temperature resistance	up to 105° C, tracking resistant
Tube	E-Cu, galvanically tin-plated

Accessories sample kits

RST 20i3 sample kit

Name	Part No.
RST20i3 trial kit	99.429.0000.0

Get to know our products

Contents:

– Connectors
– Device connections
– Cover pieces

RST 20i5 sample kit

Name	Part No.
RST20i5 trial kit	99.430.0000.0

Get to know our products

Contents:

– Connectors
– Device connections
– Cover piece

RST 20i2…i5 sample kit

Name	Part No.
RST 20i2…i5 complete kit	99.431.0000.0

Get to know our products

Contents:
– Connectors, incl. all codings
– Device connectors
– Pre-assembled cables
– Distribution board
– Cover pieces

Sample illumination cable

Name	Part No.
Sample illumination cable	99.490.0000.0

Sample piece

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

The illumination cable is not a standard Wieland product.

RST POWER **Connectors**
Compact, quick and strong

Always right on site

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

The 5 pole IP66/67 connectors and device connections have been designed for 250/400 V and a maximum current of 50 A. In addition to the well-proven screw connection technology, the components are also available in crimp technology – ideal for industrial pre-assembly.

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

Advantages at a glance:

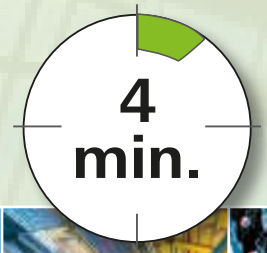
- High load carrying capability, up to 50 A
- Cross sections up to 16 mm²
- For M 32 knock-outs

Installation with a system

The housing design delivers consistently simple assembly and installation. The device, or bulkhead connectors, intended for installation inside a housing, require no more space than a standard M32 cable gland, and are mounted directly into the panel knock-out via a snap-in fitting.
In cases where a knock-out has been prepared for M40 cable glands, an adapter ring ensures that the required center position is maintained.
The connectors consist of two parts and are installed with only a few flicks of the wrist. An ingenious system of locking mechanisms eliminates time-consuming fastening with screws.
The user-friendly bayonet lock can also protect against accidental disconnection of the connector (if necessary with a lock-out cable).

Conventional installation

Pluggable installation from Wieland



RST 50 Connectors
Simply reliable

Assembly of the device connector

Snap the housing into the M32 knock-out

M40 adapter ring

Tighten the counter nuts positioned inside

Assemble the contact carrier

Fasten or loosen the contact carrier

Assembly of the connector

Insert the cable into the strain relief housing

Connect the wire using screw technology

Connect the wires using crimp technology

Loosen the wires connected using crimp technology

Latch the contact carrier

Fasten or loosen the contact carrier

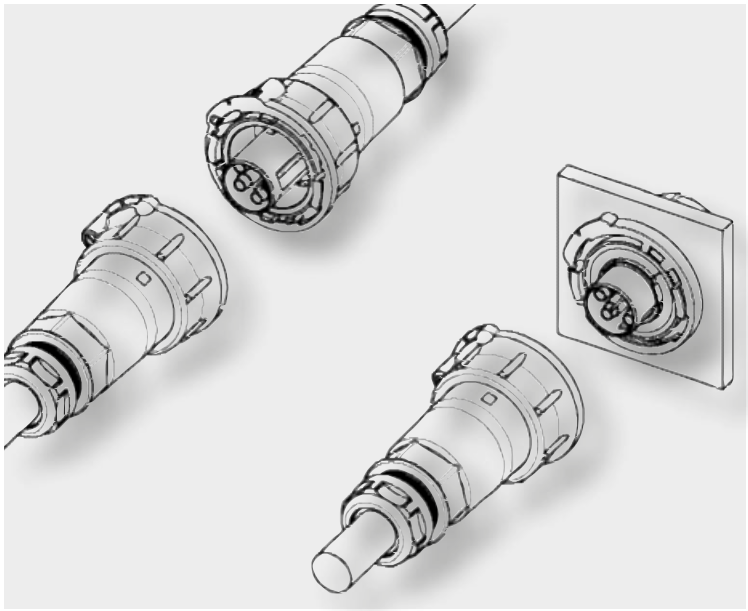
Tighten the gland using the required torque

Bayonet lock with integrated protection against accidental disconnecting

RST 50i4

The new RST Power series up to 50 A

Application example



General

The new RST Power series is particularly designed for device engineering. With a current-carrying capability of 50 A combined with an extremely compact design, the connector fits almost everywhere.

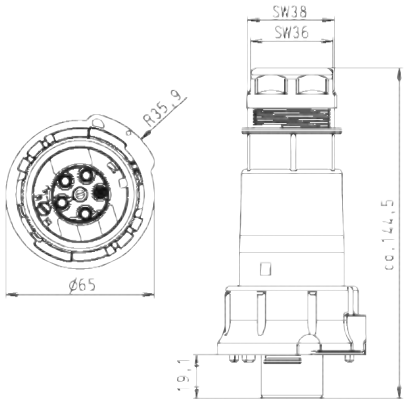
The 4 pole connector is based on the 5 pole variation, with one pole left empty.

Coding

				Application	Power 250/400V
				Mechanical coding	1, 2, 3, ⏚
Name	**Description**	**Connection style**	**Strain relief housing**	**Connection points per pole**	black
Connectors	1 x wire entry	Screw Spring clamp	yes	1	
Device connectors	M32 connector, standard	Screw Spring clamp	yes	1	

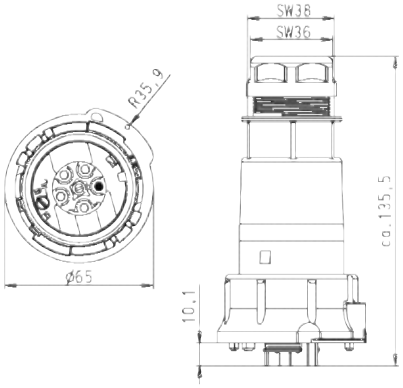
Connector with strain relief

Female connector



Application	Coding	Cable gland	Wire diameter	Color	Part No.	Part No.
					with screw connection	**with crimp connection**
					Wires mm²	Wires mm²
					solid / stranded: from 4.0 to 6.0*)	flexible wires: from 4.0 to 10.0
					flexible wires: from 4.0 to 16.0	Approvals: VDE, UL, CSA being prepared
					Approvals: VDE, UL, CSA being prepared	Pole markings: ⏚, 1, 2, 3
					Pole markings: ⏚, 1, 2, 3	Crimp contacts: order separately; see last page of section RST50i
Main power supply max. 50 A		M32	15 – 25	black	97.041.4053.1	97.141.0053.1
		M40	20 – 32	black	97.041.4253.1	97.141.0253.1

Male connector

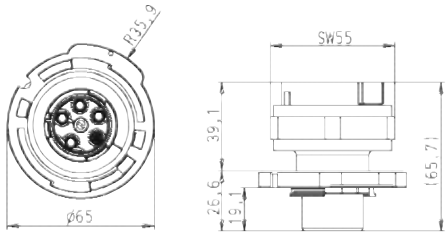


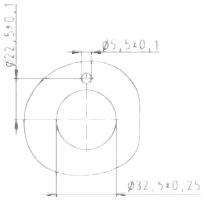
Application	Coding	Cable gland	Wire diameter	Color	Part No.	Part No.
					with screw connection	**with crimp connection**
					Wires mm²	Wires mm²
					solid / stranded: from 4.0 to 6.0*)	flexible wires: from 4.0 to 10.0
					flexible wires: from 4.0 to 16.0	Approvals: VDE, UL, CSA being prepared
					Approvals: VDE, UL, CSA being prepared	Pole markings: ⏚, 1, 2, 3
					Pole markings: ⏚, 1, 2, 3	Crimp contacts: order separately; see last page of section RST50i
Main power supply max. 50 A		M32	15 – 25	black	97.042.4053.1	97.142.0053.1
		M40	20 – 32	black	97.042.4253.1	97.142.0253.1

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

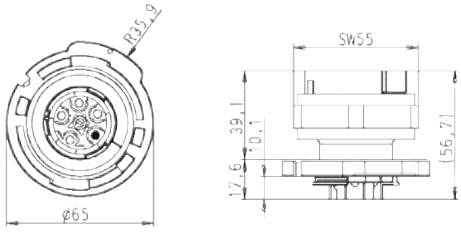
M32 device connector

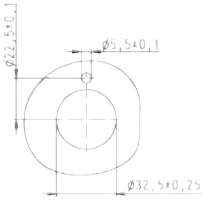
Female connector



Application	Coding	Fixation with bolts	Color	Part No.	Part No.
Drilling template for device connectors fixed in position				**with screw connection**	**with crimp connection**
				Wires / mm²	Wires / mm²
				solid / stranded: from 4.0 to 16.0	flexible wires: from 4.0 to 10.0
				flexible wires: from 4.0 to 16.0	Approvals: VDE, UL, CSA being prepared
				Approvals: VDE, UL, CSA being prepared	Pole markings: ⏚, 1, 2, 3
				Pole markings: ⏚, 1, 2, 3	Crimp contacts: order separately; see last page of section RST50i
Power max. 50 A		fixed in position	black	97.041.5553.1	97.141.1553.1
		not fixed in position	black	97.041.5053.1	97.141.1053.1

Male connector

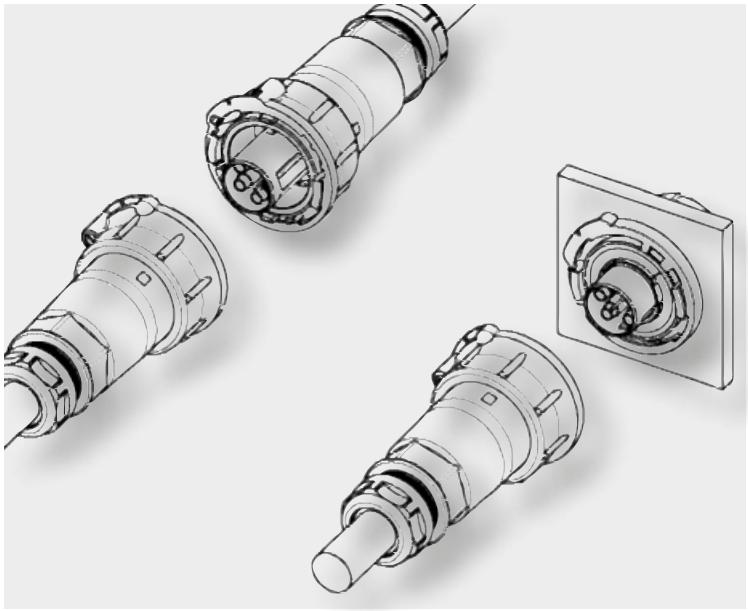


Application	Coding	Fixation with bolts	Color	Part No.	Part No.
Drilling template for device connectors fixed in position				**with screw connection**	**with crimp connection**
				Wires / mm²	Wires / mm²
				solid / stranded: from 4.0 to 16.0	flexible wires: from 4.0 to 10.0
				flexible wires: from 4.0 to 16.0	Approvals: VDE, UL, CSA being prepared
				Approvals: VDE, UL, CSA being prepared	Pole markings: ⏚, 1, 2, 3
				Pole markings: ⏚, 1, 2, 3	Crimp contacts: order separately; see last page of section RST50i
Power max. 50 A		fixed in position	black	97.042.5553.1	97.142.1553.1
		not fixed in position	black	97.042.5053.1	97.142.1053.1

RST 50i5

The new RST Power series up to 50 A

Application example



General

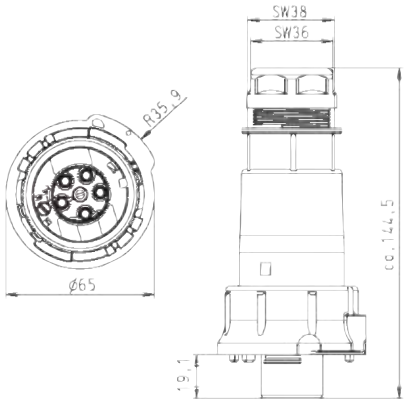
The new RST Power series is particulary designed for device engineering. With a current-carrying capability of 50 A combined with an extremely compact design, the connector fits almost everywhere.

Coding

				Application	Power 250/400V
				Mechanical coding	1, 2, 3, N, ⏚
Name	Description	Connection style	Strain relief housing	Connection points per pole	black
Connectors	1 x wire entry	Screw Spring clamp	yes	1	
Device connectors	M32 connector, standard	Screw Spring clamp	yes	1	

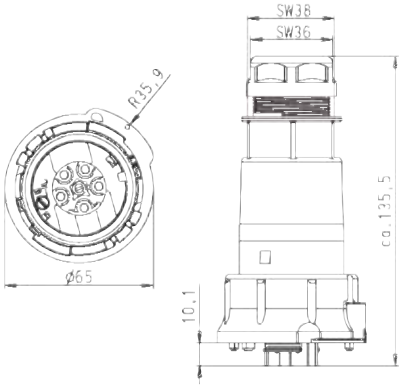
Connector with strain relief

Female connector



Application	Coding	Cable gland	Wire diameter	Color	Part No.	Part No.
					with screw connection	**with crimp connection**
					Wires mm²	Wires mm²
					solid / stranded: from 4.0 to 6.0*)	flexible wires: from 4.0 to 10.0
					flexible wires: from 4.0 to 16.0	Approvals: VDE, UL, CSA being prepared
					Approvals: VDE, UL, CSA being prepared	Pole markings: ⏚, 1, 2, 3, N
					Pole markings: ⏚, 1, 2, 3, N	Crimp contacts: order separately; see last page of section RST50i
Main power supply max. 50 A		M32	15 – 25	black	97.051.4053.1	97.151.0053.1
		M40	20 – 32	black	97.051.4253.1	97.151.0253.1

Male connector

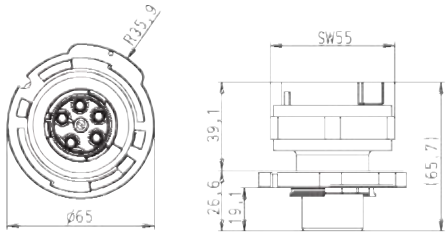


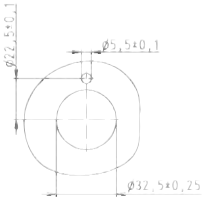
Application	Coding	Cable gland	Wire diameter	Color	Part No.	Part No.
					with screw connection	**with crimp connection**
					Wires mm²	Wires mm²
					solid / stranded: from 4.0 to 6.0*)	flexible wires: from 4.0 to 10.0
					flexible wires: from 4.0 to 16.0	Approvals: VDE, UL, CSA being prepared
					Approvals: VDE, UL, CSA being prepared	Pole markings: ⏚, 1, 2, 3, N
					Pole markings: ⏚, 1, 2, 3, N	Crimp contacts: order separately; see last page of section RST50i
Main power supply max. 50 A		M32	15 – 25	black	97.052.4053.1	97.152.0053.1
		M40	20 – 32	black	97.052.4253.1	97.152.0253.1

*) Solid and stranded wires > 6,0 mm² cannot be connected in the available space due to their rigidity

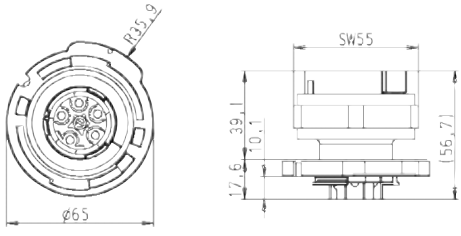
M32 device connector

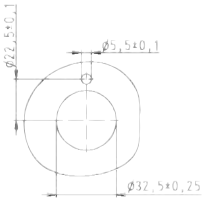
Female connector



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

Male connector

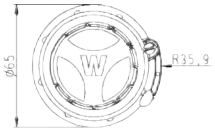


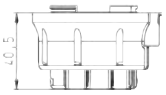
Application	Coding	Fixation with bolts	Color	Part No.	Part No.
Drilling template for device connectors fixed in position				**with screw connection**	**with crimp connection**
				Wires / mm²	Wires / mm²
				solid / stranded: from 4.0 to 16.0	flexible wires: from 4.0 to 10.0
				flexible wires: from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

Accessories

Cover

Name	Color	Part No.
Cover	black	Z5.567.5653.0





For safe covering of unused male or female components

Sample kit RST50i5

Name	Color	Part No.
Sample kit RST50i5	black	99.628.0000.0

Trial set

Complete kit including:
– Connectors
– Device connection
– Cover piece
– Knock-out (metal sheet)

Crimping tool
with system kit

Name	Color	Part No.
Basic tool with system kit		95.101.0800.0
Crimping die D		05.502.2300.0
Contact positioner		05.502.3700.0

Accessories

Crimp contacts
Female contacts

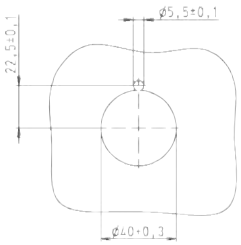
Name		ID (groove)mm²	Part No.
Crimp contact	unmarked	4.0	02.126.0621.8
Crimp contact	1	6.0	02.126.0721.8
Crimp contact	unmarked	10.0	02.126.0821.8

Crimp contacts
Male contacts

Name		ID (groove)mm²	Part No.
Crimp contact	unmarked	4.0	05.545.2821.8
Crimp contact	1	6.0	05.545.2921.8
Crimp contact	unmarked	10.0	05.545.3021.8

Adapter ring 40 mm

Name	Color	Part No.
Adapter ring	black	05.568.1853.0



For fixing the device connector inside
40 mm knock-outs

Additional information about the complete connector range available in our brochures

0161.4 Safe and Strong

and in our eCat for direct ordering with further information, drawings, etc.

IP protection degrees (DIN EN 60529-1)

Documentation:

Example: IP65

1st fig. 2nd fig.

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
7		
8		

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 economical installation in outdoor and industrial applications.

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, and 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 continuous operation in water.

It is not possible to lay the components directly into the ground.

According to VDE0100-520 the connections must be protected mechanically in addition, and must be accessible for inspection, testing, and maintenance.

Also see the Installation Instructions.

Degree of protection achieved:

IP65	Jet water
IP66	Powerful jet water
IP67	Temporary submersion
IP68	Lasting immersion (2 hours in 3 m deep water)

Technical data in general
Degrees of protection and material resistance

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 oil, oil tankers)	+
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, 40%	+	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°C	+
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.

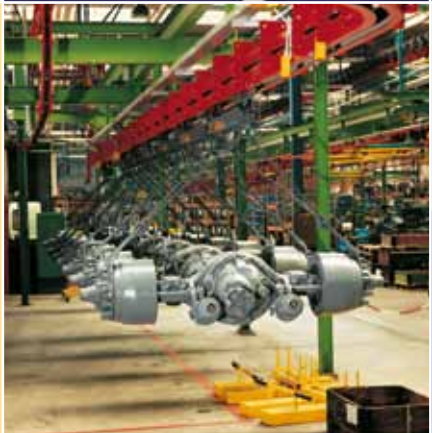
Electrical installations with increased degree of protection

Electrical outdoor installations are particularly tricky. Constant temperature changes, high UV radiation, high ozone values and not least mechanical wear leading to material fatigue, water ingress, and finally system failure.

What is crucial is the perfect interaction between the materials used and the very specific environmental conditions. While all connectors and distribution units are designed for continuous indoor and outdoor operation, the cables are clearly a different matter. Selection of the appropriate cable plays a major role for continuous operation of the installation.

By default, we offer the low-cost H05-VV cable, but its field of applications is restricted to indoor areas. This cable is not suitable for outdoor areas and constantly humid or wet rooms! The H05-VV cable is preferred for use indoors, where it is true that pollution occurs, but where it is normally not humid, let alone wet. Protection from foreign bodies (IP6X) is at the fore here. Temporary wetness for cleaning purposes, however, is allowed.

Outdoor installations without special demands can be implemented using H07 RN-F rubber-sheathed cables. However, it must be checked whether or not any additional action such as layout inside installation pipes is required. In this case the selection of the cable must be done in coordination with the customer.



H05VV-F PVC cable:
Use inside dry rooms,
not outdoors, not directly
in the ground.
Not UV-resistant.
Minimum bending radius:
4 x outside diameter.
Operating temperature: 70 °C

Installation instructions

A horizontal installation position is preferable in order to ensure that water drains off.
In accordance with installation regulation IEC 60364-5-52 (DIN VDE 0100-522.3) cable systems must be designed in such a way that damage caused by the ingress of water is avoided.

Cable systems must satisfy the required degree of protection. If water can accumulate or condensation of water may occur, provisions for water drainage must be made. This particularly applies to sealing points in the area of the strain relief.

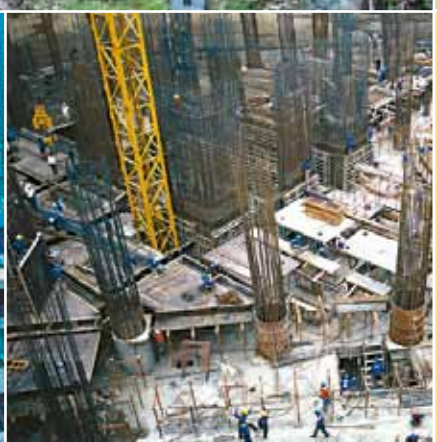
If abrasion might occur (in flexible installations), wear of the pre-assembled cable must be taken into consideration and must be monitored.

Avoid bending of the cable in the area of the strain relief.

Control mechanical bending in the area of the strain relief using suitable measures (e.g. cable clamps).

Direct layout of the system components in the ground is not possible. According to VDE 0100-520, connectors must be protected using suitable additional facilities; they must be accessible for visual inspection, testing, and maintenance.

The connector system is not designed for continuous operation under water.
However, unplanned immersion is possible as foreseen by the specification.



H07RN-F rubber-sheathed cable:
Use inside dry, humid, and wet rooms, as well as outdoors, though not directly in the ground.
UV-resistant to a limited extent.
Minimum bending radius:
4 x outside diameter.
Operating temperature: 60 °C.

Technical data RST20i2...i5

	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	32 A	20 A	25 A
Number of poles	2 or 3 pole	3 pole	4 or 5 pole	5 pole

Continuous operating temperature:
-40° C to +100° C
Cable H05VV max 70 °C, H07RN-F max. 60 °C

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

Regulations:
IEC 61535 (VDE 0606); DIN EN 61984 (VDE 0627); VDE 0110
IEC 60999: UL 2238; CSA: C22.2 No.182.2-M1987;
LR Type Approval System

Pollution degree:
3 (when plugged in)

Mating cycles:
according to IEC 61535
100 times without load and 50 times at rated load (cos φ = 0.6)

Approvals:
VDE; LR; GL; DNV; ATEX; CSA**; UL*(observe the conditions of acceptability)

* without pre-assembled cables with shrinkage tube technology and connectors with spring clamp technology
** without pre-assembled cables with shrinkage tube technology

Degree of protection:
IP 65, IP 66, IP 67, and IP 68 (3 m; 2 hours)
Please observe the Installation Instructions (see Installation Instructions)

IK code:
IK7 (2 Joule)

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

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. Ground 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.

A locking device is required for IEC 6153 approval.
DIN VDE 0606 T200 conformity does not automatically exclude the danger of confusion with third-party installation plug connector systems!
Installation plug connector systems are no substitute for national plug/ outlet systems for domestic use.
IEC 60364-5-52 must be observed – see note under „Electrical installations with increased degree of protection“.

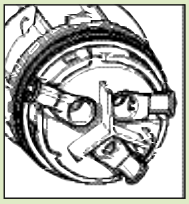
Wire preparation

RST 2 /3 pole

Insulation strip lengths and ferrules

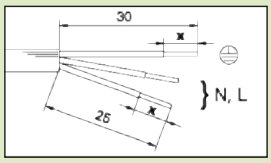
all lengths indicated in mm

Screw connection:

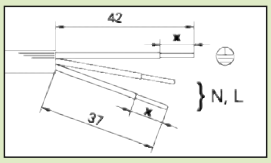


Screwdriver
PZ1
Rated torque:
0.8 – 1.0 Nm

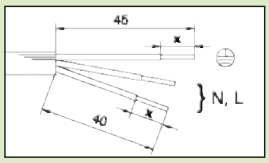
Connector
6 – 10 mm
10 – 14 mm



Connector
13 – 18 mm



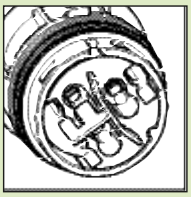
Splitter connector
max. 2 x 2.5 mm²!



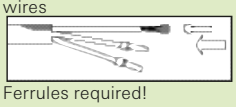
Insulation strip length X =

Conductor cross-section	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	–

Spring clamp connection:

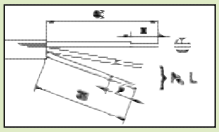


Fine-stranded and stranded wires

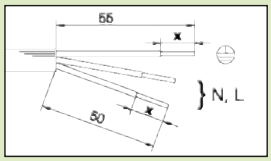


Ferrules required!

Connector



Splitter connector



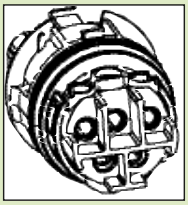
Insulation strip length X =

Conductor cross-section	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

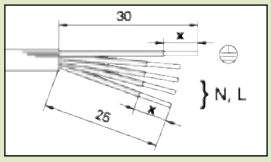
all lengths indicated in mm

Screw connection:

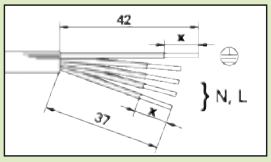


Screwdriver
PZ1
Rated torque:
0.5 – 0.7 Nm

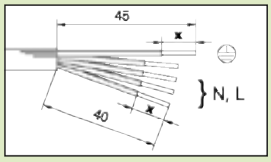
Connector
6 – 10 mm
10 – 14 mm



Connector
13 – 18 mm



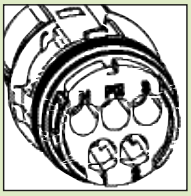
Splitter connector
max. 2 x 1.5 mm²!



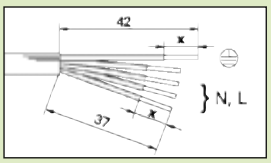
Insulation strip length X =

Conductor cross-section	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	–

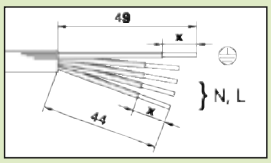
Crimp connection:



Connector
6 – 10 mm
10 – 14 mm



Connector
13 – 18 mm



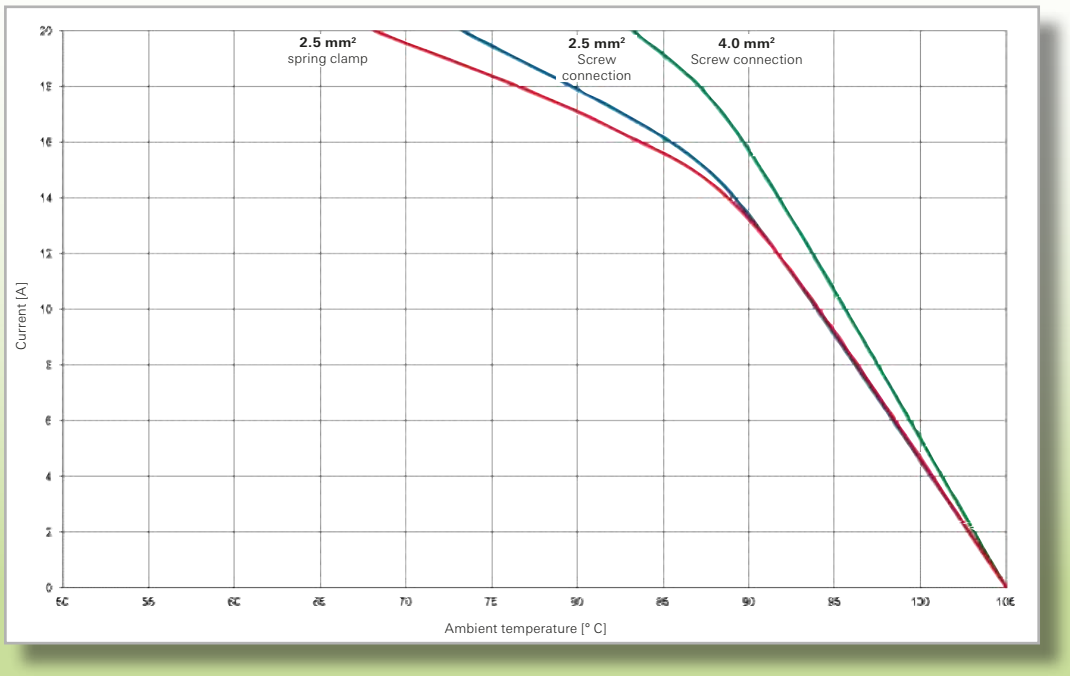
Insulation strip length X =

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

Technical data RST20i3 and RST 25i3. Derating curves.

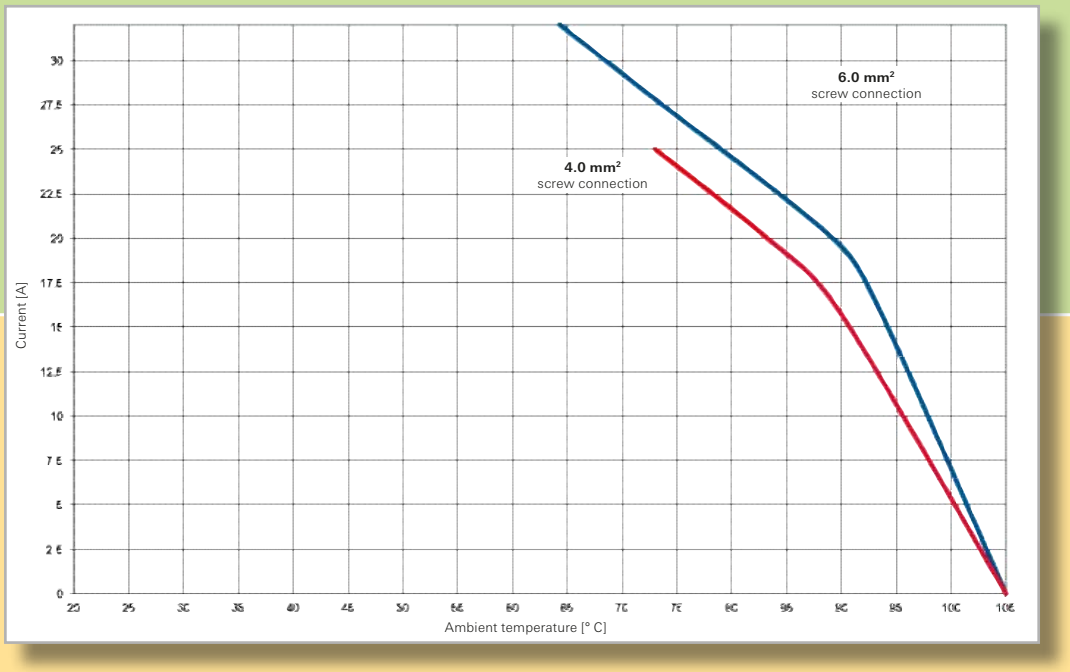
RST 20i3

Screw connection – spring clamp connection
Derating curve according to IEC 61984 Edition 2 dated 10/2008 paragraph 7.3.8



RST 25i3

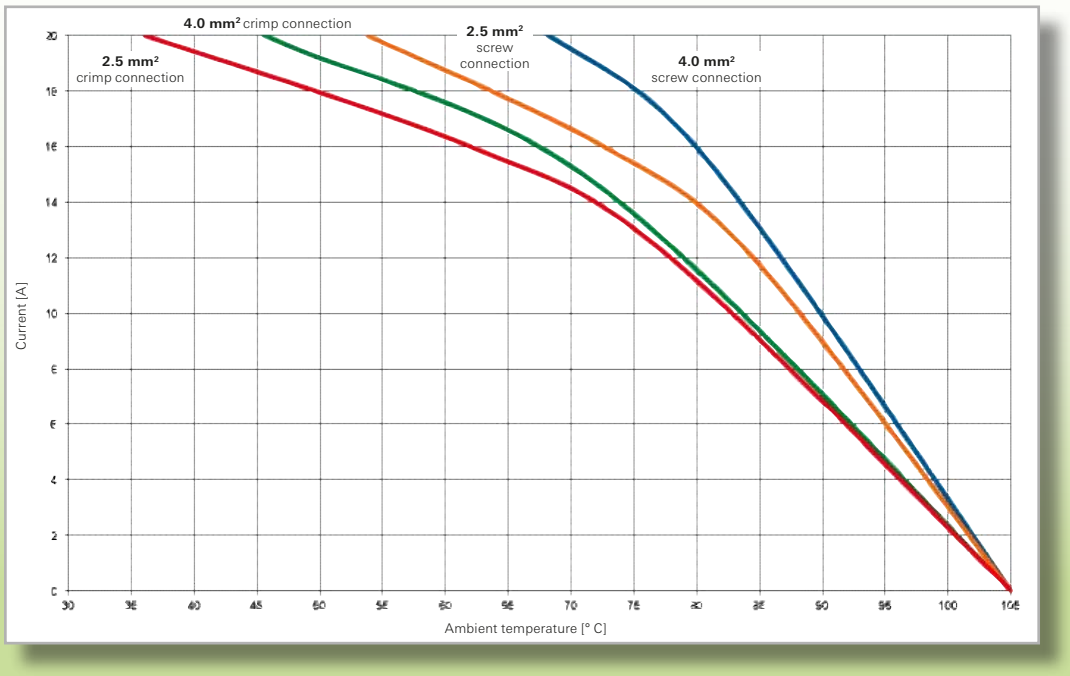
Screw connection
Derating curve according to IEC 61984 Edition 2 dated 10/2008 paragraph 7.3.8



Technical data RST20i5 and RST 25i5. Derating curves.

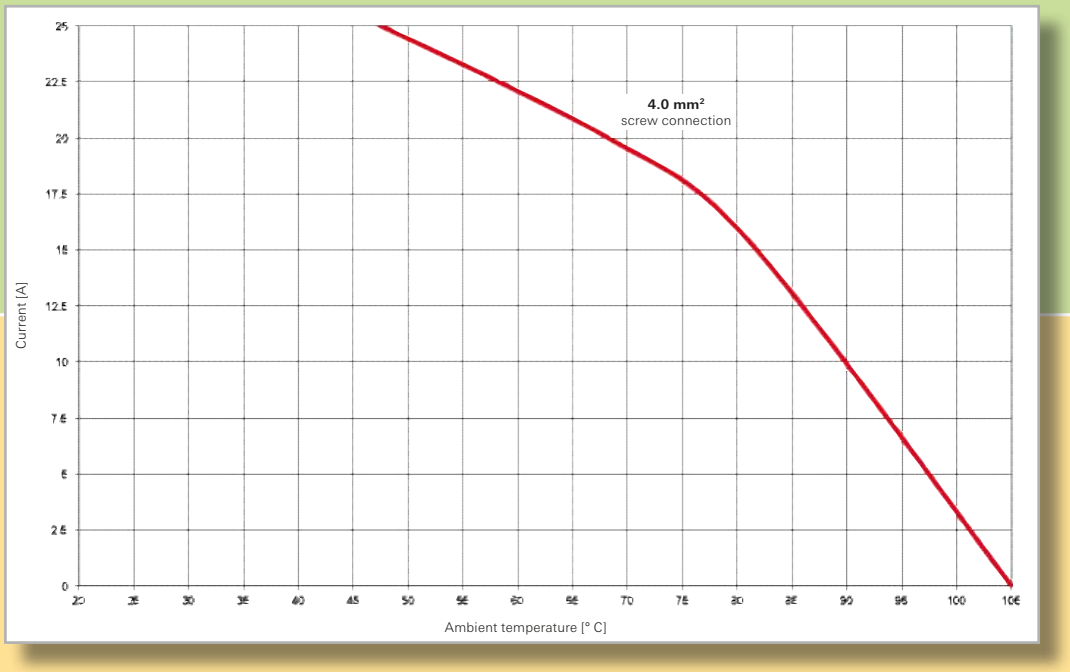
RST 20i5

Screw connection – crimp connection
Derating curve according to IEC 61984 Edition 2 dated 10/2008 paragraph 7.3.8



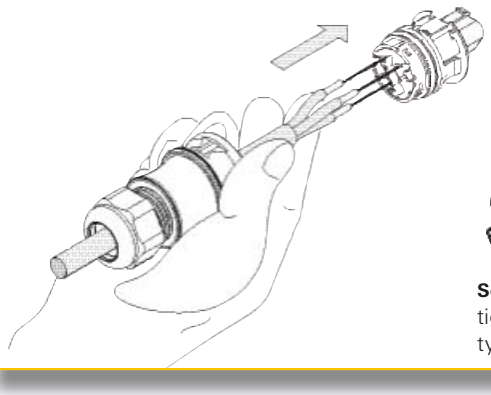
RST 25i5

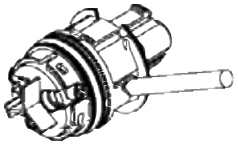
Screw connection
Derating curve according to IEC 61984 Edition 2 dated 10/2008 paragraph 7.3.8



Mounting instructions RST20i2…i3
Connector mounting

Connect the wires ...

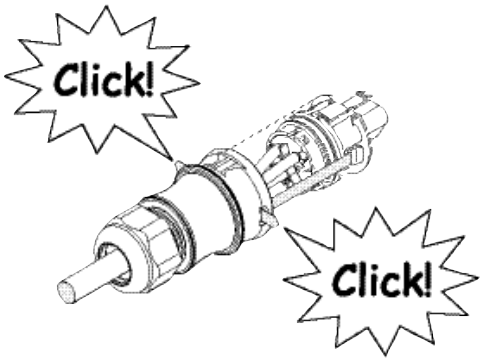




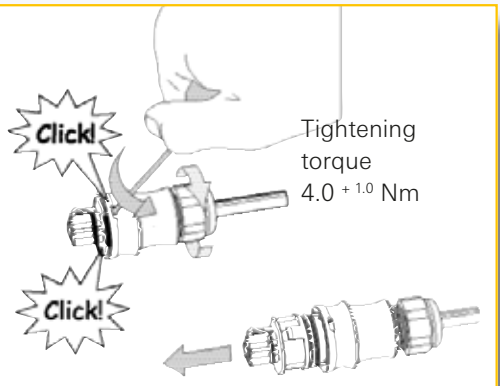
Screw connection: :
tightening torque typically
typ. 0.8 – 1.0 Nm

... and disconnect them

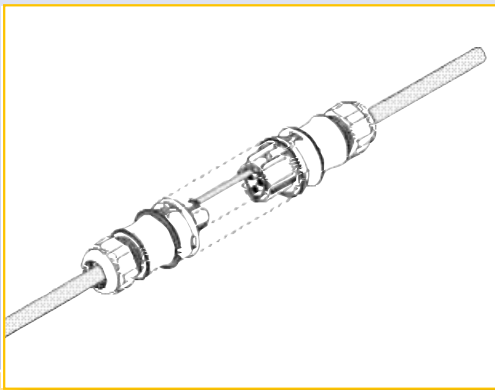
Close the connector ...



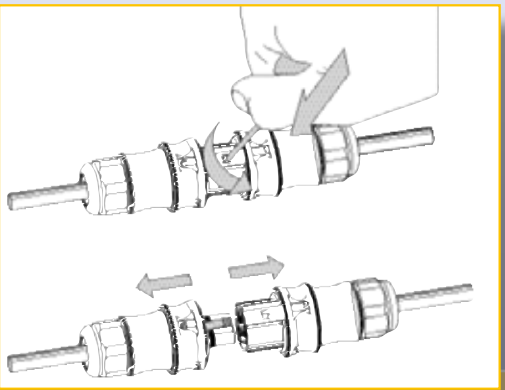
... and open it



Lock the housing ...

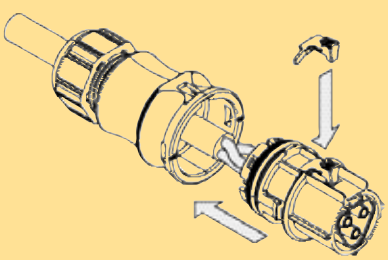


... and unlock it

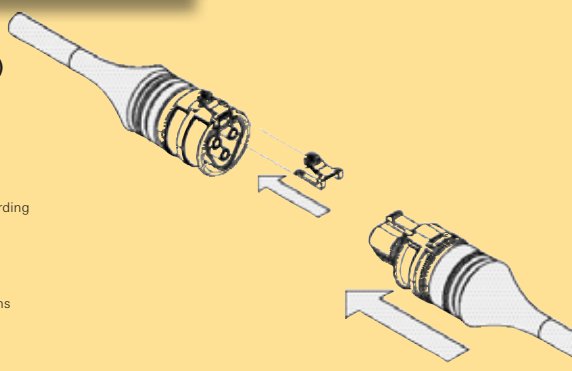


How to insert the (optional) manual disconnect into the connector

(only possible for the female connector)



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



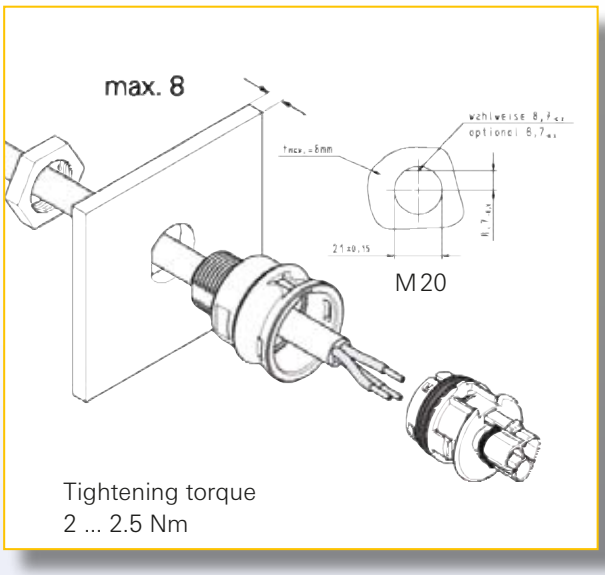
* Note:
Connections with manual disconnect are not approved according to VDE 0606 (fixed installations, for example in buildings).
The VDE 0627 regulation will still apply nevertheless.
Also see the “Installation instructions”!

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.

Housing installation

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

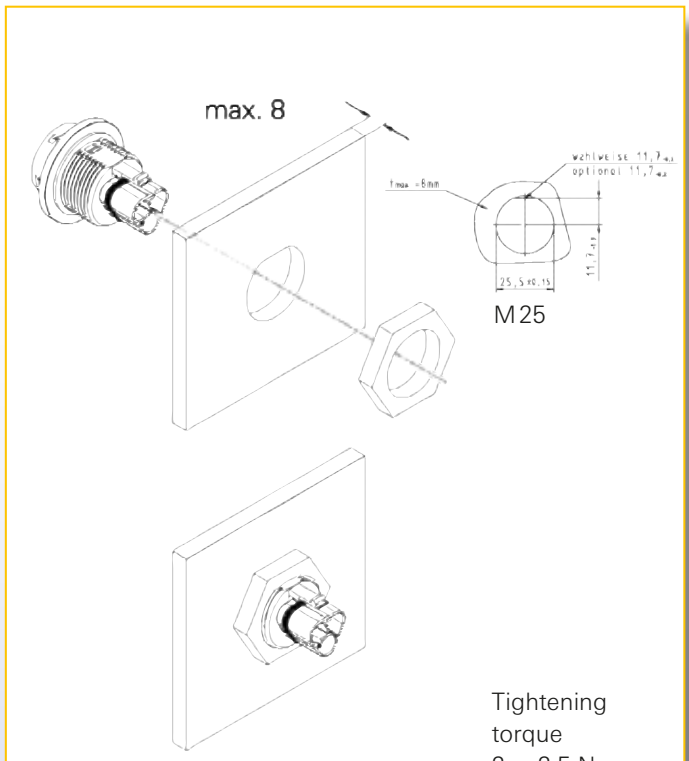
Dimensions in mm



Tightening torque
2 ... 2.5 Nm

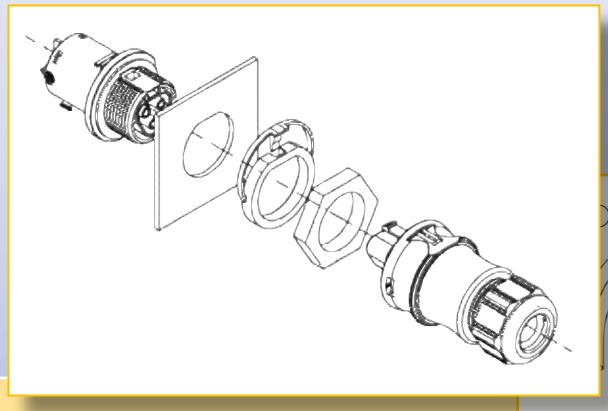
Installation of a standard system,
for M 25 feed-through

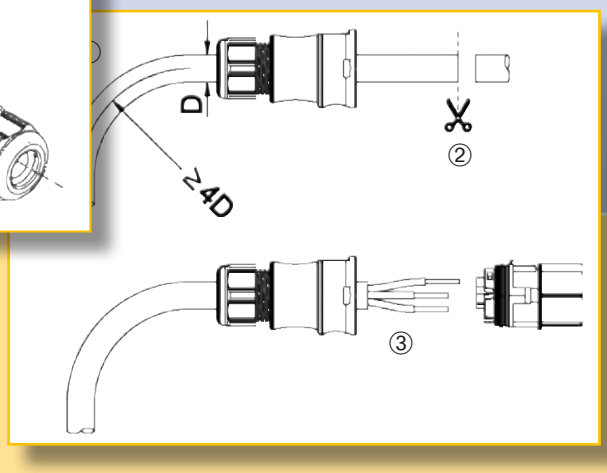
Dimensions in mm



Tightening
torque
2 ... 2.5 Nm

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



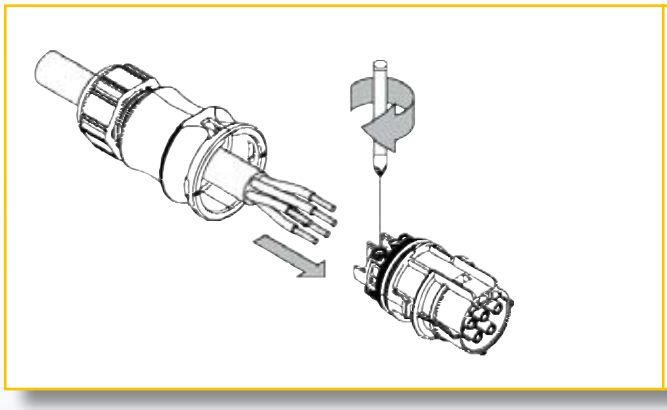


Bending radius (for conductors)
Note the minimum bending radius for conductors > 2.5 mm². Pull forces on the contact points can be avoided by proceeding as follows:

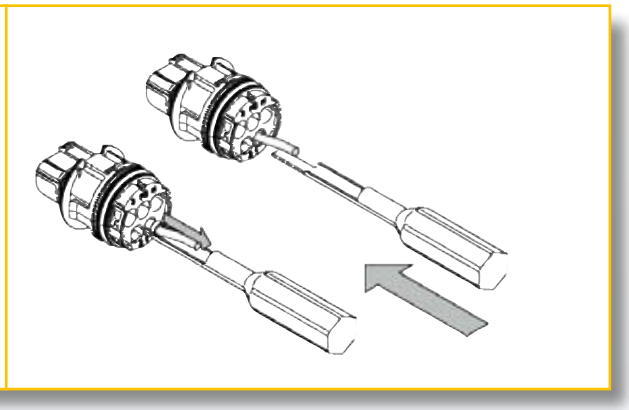
① **Bend the wire as required**
② **Cut the wire to length**
③ **Strip the cable and wires**

Mounting instructions RST20i4...i5
Connector mounting

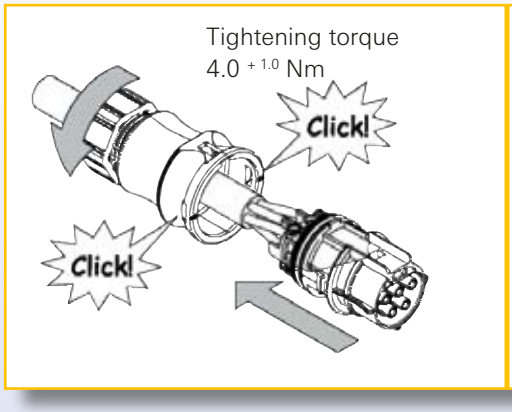
Connect the wires ...



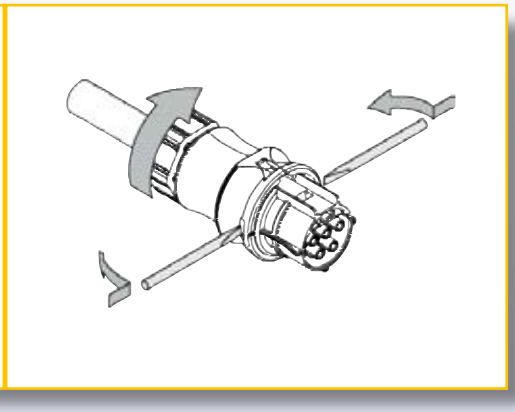
... and disconnect them



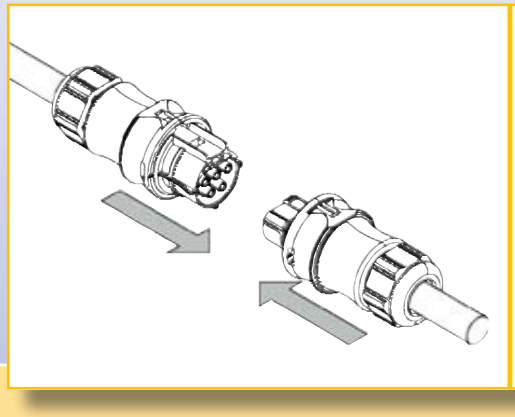
Close the connector ...



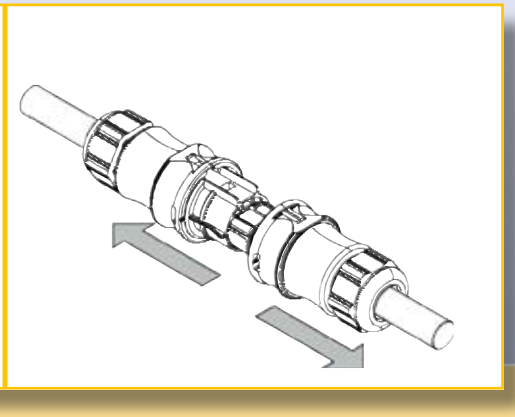
... and open it



Lock the housing ...

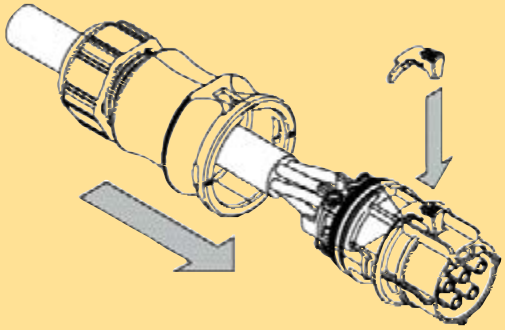


... and unlock it



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

(only possible for the female connector)



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

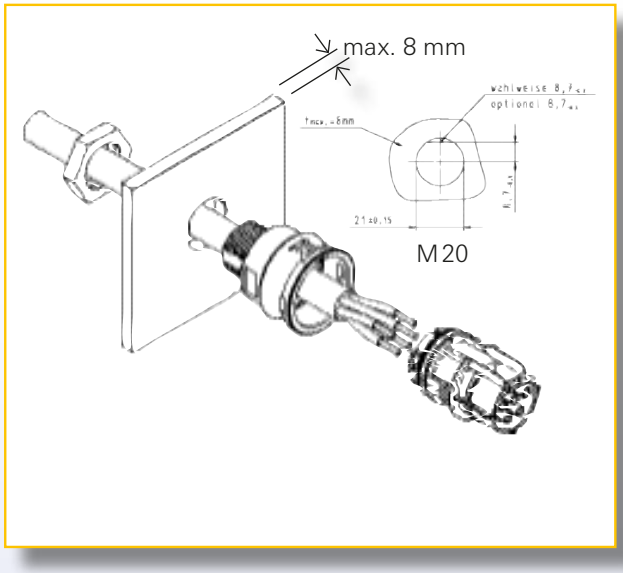
*** Note:**
Connections with manual disconnect are not approved according to VDE 0606 (fixed installations, for example in buildings).
The VDE 0627 regulation will still apply nevertheless.
Also see the "Installation instructions"!

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.

Housing installation

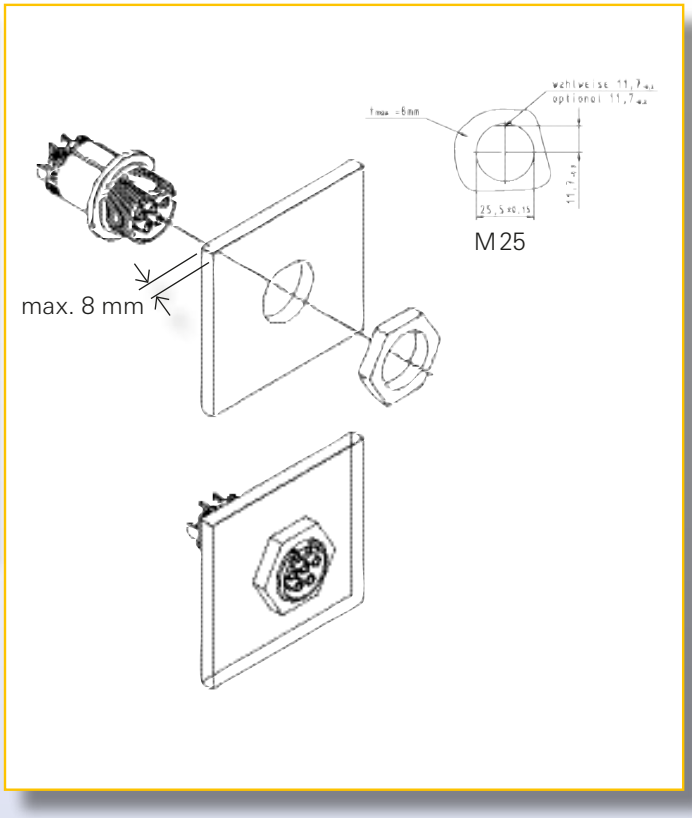
Installation of a standard system,
for M20 feed-through

Dimensions in mm

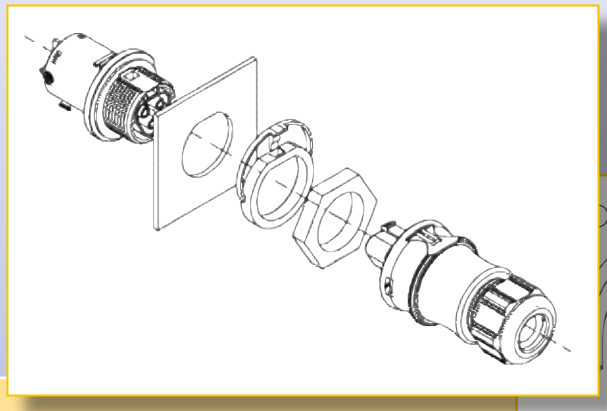


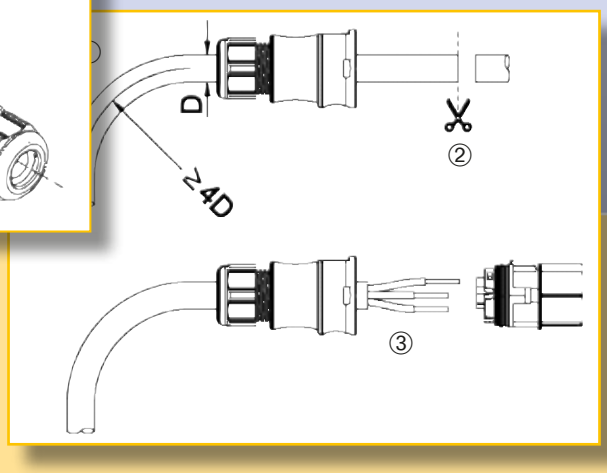
Installation of a standard system,
for M25 feed-through

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.

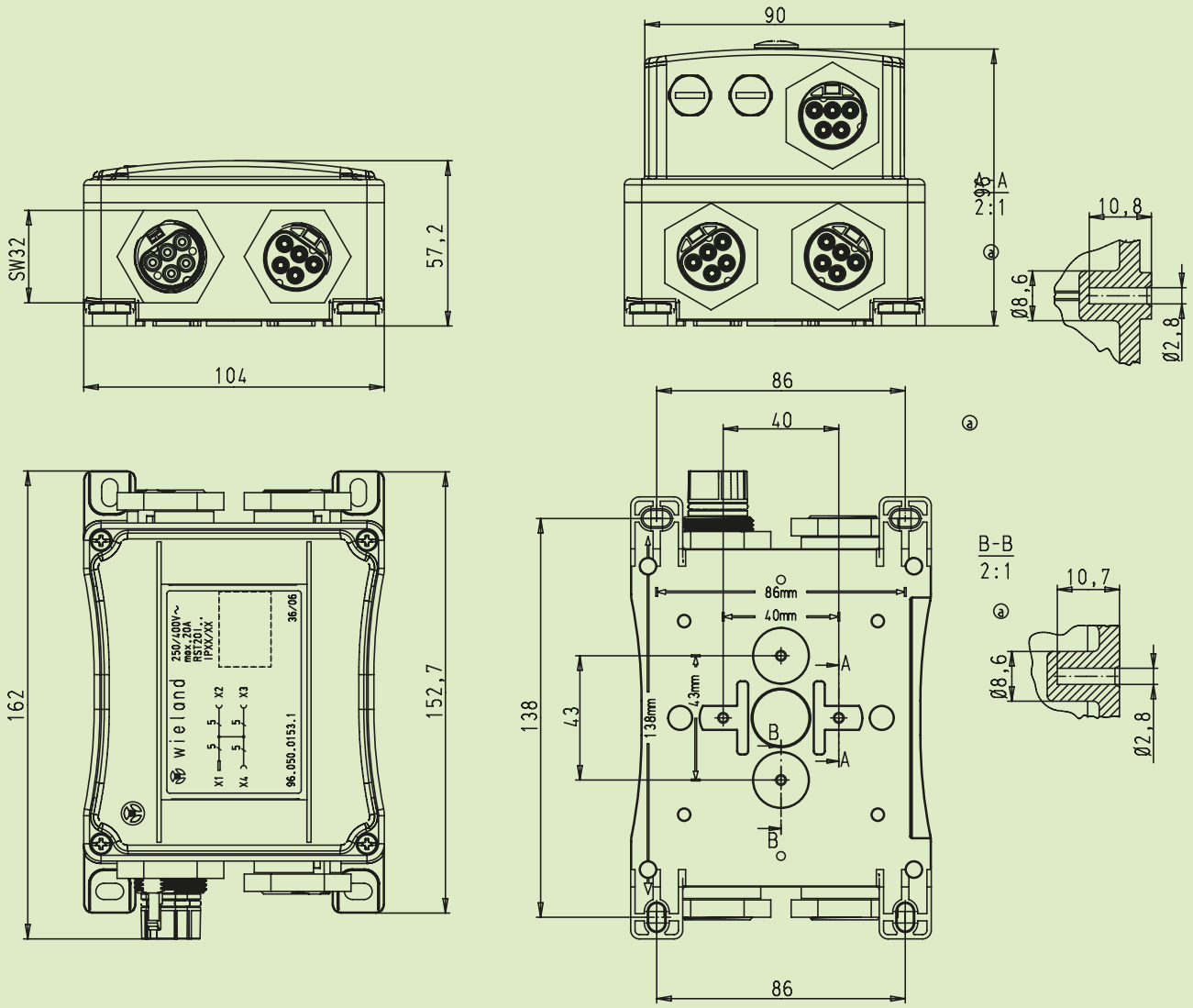




Bending radius (for conductors)
Note the minimum bending radius for conductors > 2.5 mm² . Pull forces on the contact points can be avoided by proceeding as follows:

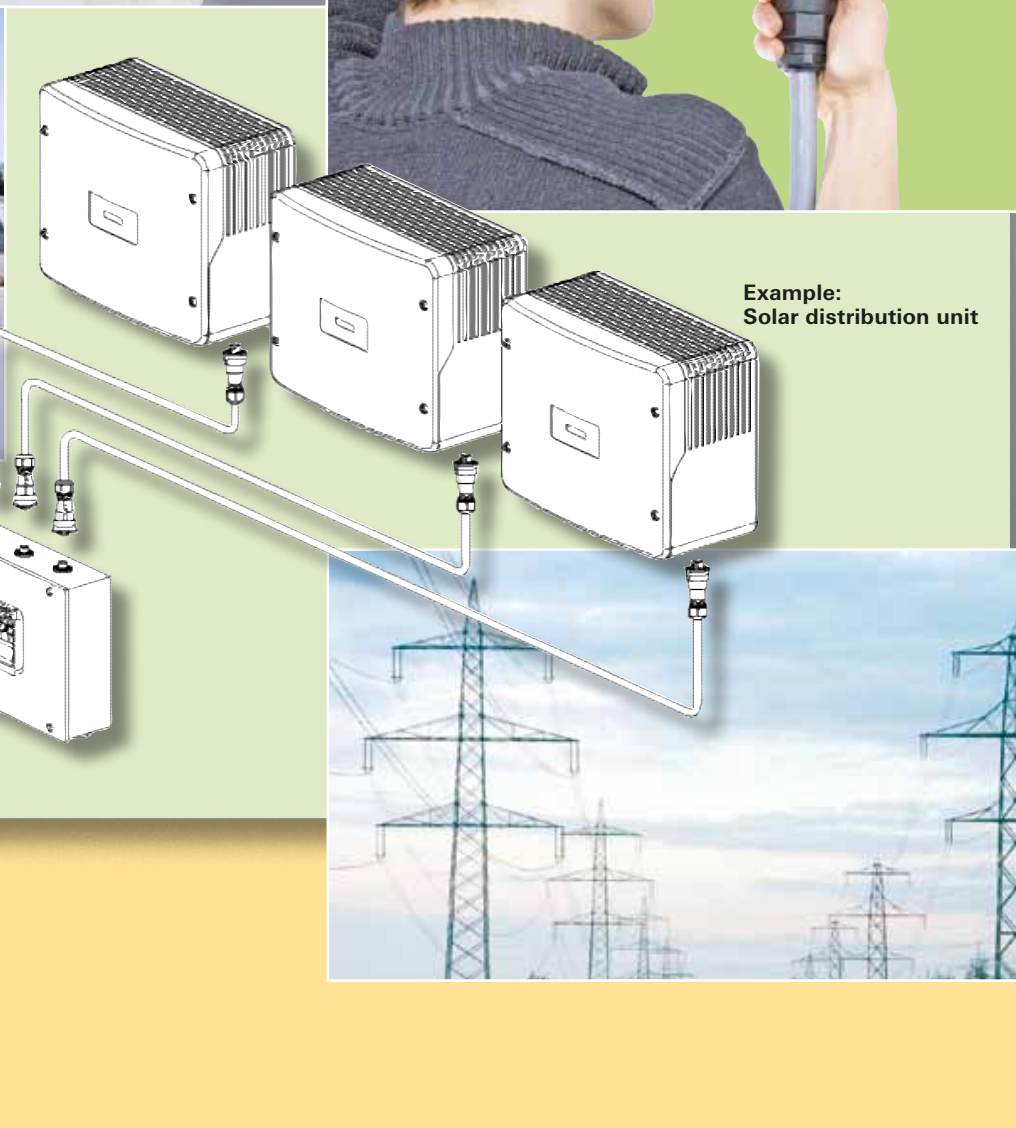
① **Bend the wire as required**
② **Cut the wire to length**
③ **Strip the cable and wires**

Technical data for RST compact and multi-distribution units



Temperature range:	-40° C to +100° C
Operating ambient **temperature:**	under full load (20 A) 55° C
Material:	Contact parts: brass, silver-plated Housing parts: thermoplastic material PA 66, halogen-free, V2 Sealing material: NBR
Wiring**:**	Individual wires 2.5 mm^2, halogen-free (other cross-sections on request)
Regulations:	DIN VDE 0606 T200; DIN EN 61984 (VDE 0627); VDE 0110 IEC 60999
Approvals**:**	VDE, UL, CSA being prepared
Degree of protection**:**	IP 65, IP 66, IP 67, and IP 68 (3 m; 2 hours) ≙ 0.3 bar
IK code:	IK 7 (2 Joule)
Rated voltage:	250 V / 400 V
Rated current:	20 A (25 A)
Coding:	Mechanical coding symbolized by color code. Gray and black with the same mechanical coding. Other codings are optional.
Note:	Touch protection generally guaranteed even when disconnected. Ground conductor leading. Connection to the live cable must be with a female connector according to the regulations. It is therefore not possible to create 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. **A locking device is required for IEC 6153 approval.** **DIN VDE 0606 T200 conformity does not automatically exclude the danger of confusion with third-party installation plug connector systems!** **Installation plug connector systems are no substitute for national plug/ outlet systems for domestic use.**

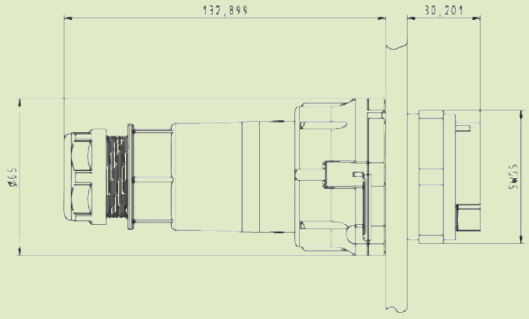
Technical data RST 50i4...i5.

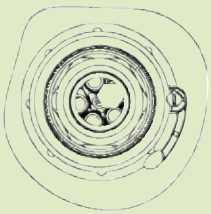


Convincing technology.

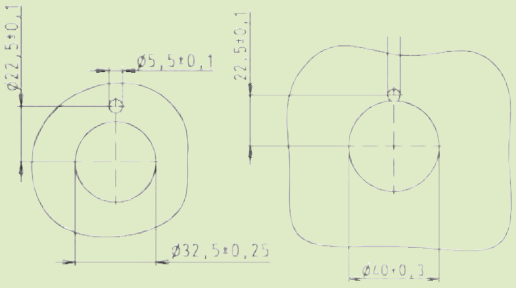
RST50i 4 pole/5 pole

Rated voltage:	**250/400 V**	
Rated current:	**50 A**	
Rated cross-section:	**rigid cables with 4.0 mm² to 6.0 mm² for plug connectors (up to 16 mm² with device connectors) fine-stranded cables with 4.0 mm² to 16.0 mm²**	
Number of poles:	**4 pole**	**5 pole**
Pole designation:	**1, 2, 3, ⏚**	**1, 2, 3, N, ⏚**
Material:	**Contact parts: brass, surface-plated Housing parts: thermoplastic material PA 66, halogen-free, V2 Sealing material NBR, TPE**	
Degree of protection:	**IP65, IP66, IP67**	
Approvals:	**VDE, UL, CSA being prepared**	
Sheath strip length:	**70 mm**	
Insulation strip length:	**Screw 10 mm (crimp 11 mm)**	
Torques:	**Cable gland S34: 12 Nm; S42: 14 Nm**	

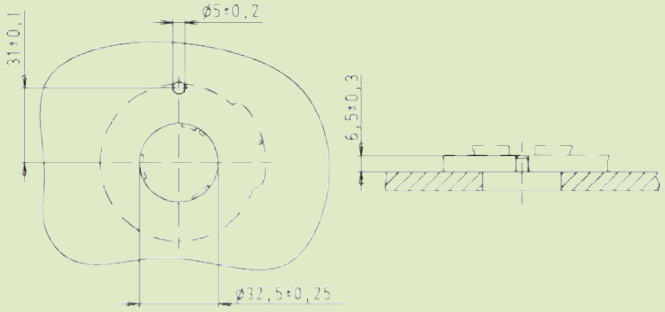




Hole pattern for M32 device connectors, alternative M40 with adapter ring (fixed in position)

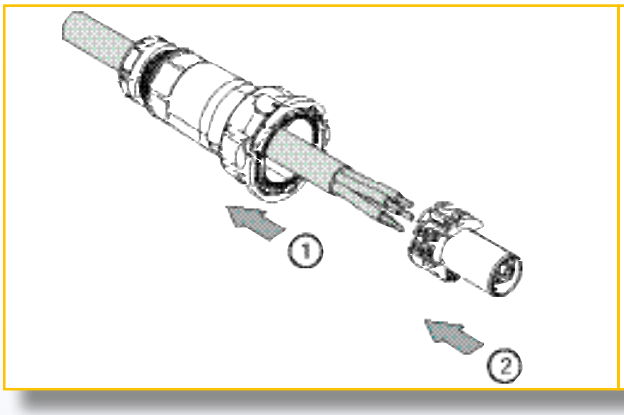


Alternative fixed in position (cams on the housing)

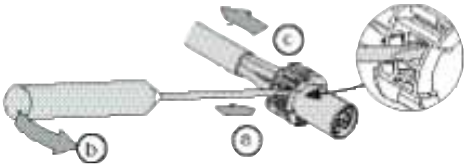


Mounting instructions RST 50i4...i5. Connector mounting

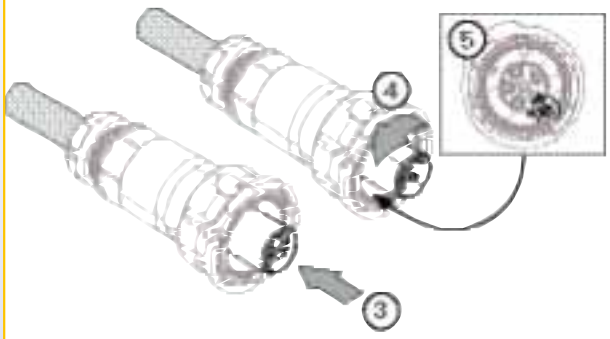
Connect the wires ...



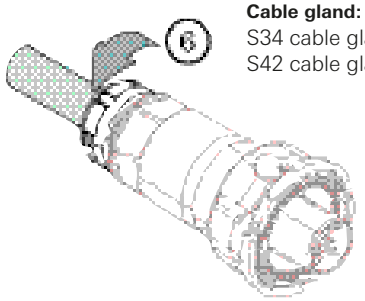
... disconnect the crimp contacts



Secure the contact inserts ...

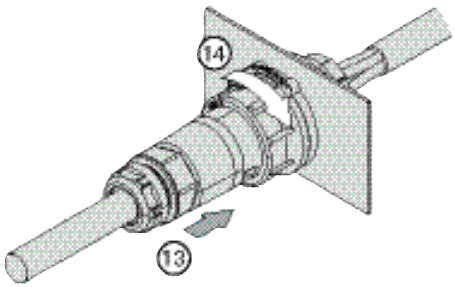


... tighten the cable gland



Cable gland:
S34 cable gland: 12 Nm
S42 cable gland: 14 Nm

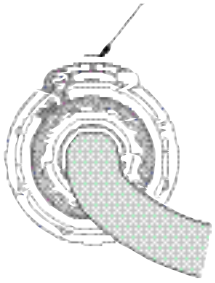
Bayonet lock ...



... and protection against unintentional disconnection

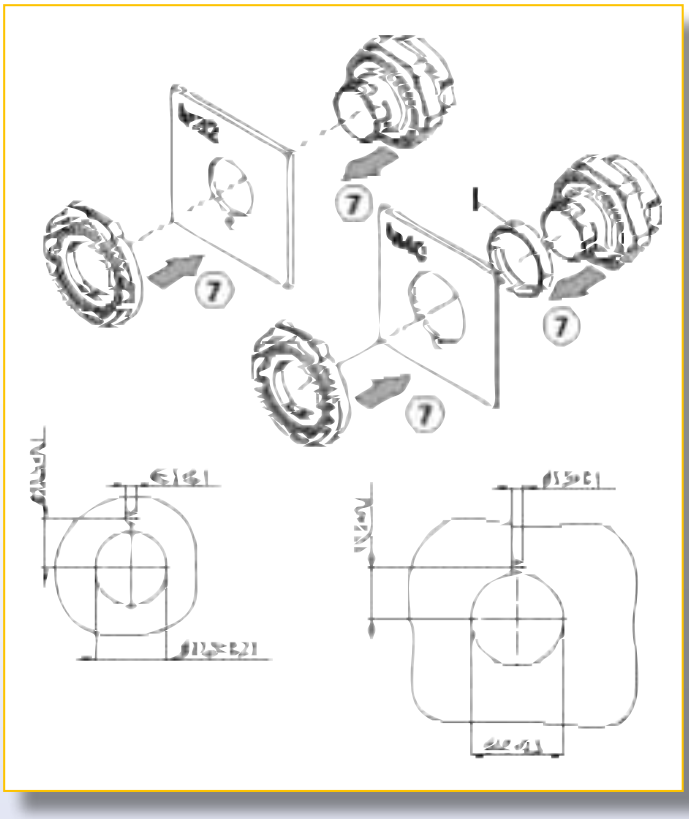
Locking device

Sealing-option

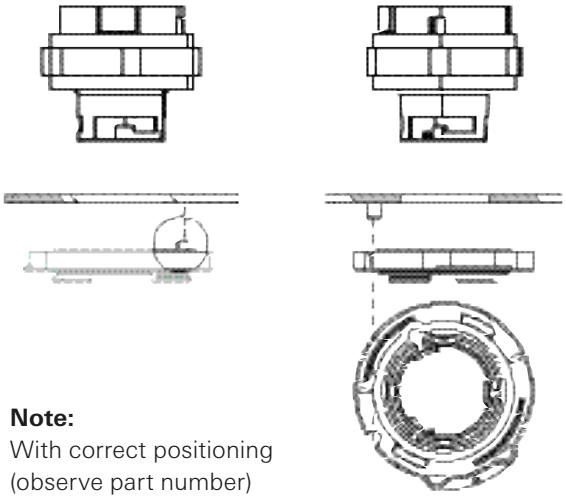


Housing installation

Mounting housing flange, dimensions in mm

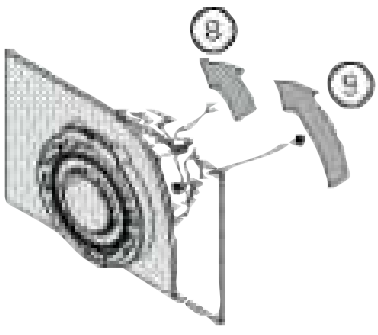


Positioning option

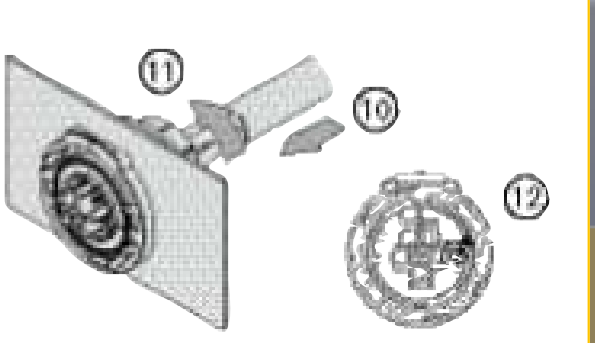


Note:
With correct positioning
(observe part number)

Latching the housing flange …



… securing the contact insert

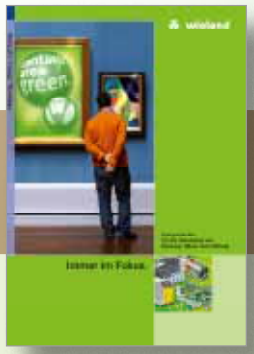


Index

Spanning various industries and products.

0400.1 „Electro-technical solutions for wind energy systems“

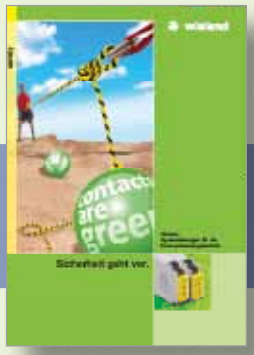
0401.1 „Electro-technical solutions for the control cabinet“



0402.1 „Components for heating, ventilation, and air conditioning“

0125.0 „***selos*** DIN rail terminal blocks with screw connection“

0124.0 „***fasis*** DIN rail terminal blocks with tension spring connection“



0152.0 „***safety*** Safe system solutions for the automation technology“

0160.8 „***gesis*** ELECTRONIC
Decentralized building installation via plug&play“

0163.0 „***gesis*** IP+
Pluggable electrical installations in IP65 to IP68“

0164.0 „***gesis*** SOLAR
Eletrical installation technology for photovoltaics“

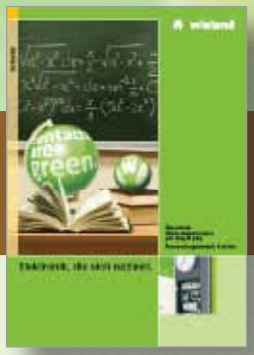
0008.6 „Environmental statement Bamberg“

0009.0 „Wieland apprenticeship greeenhorns to the foreront.“

0003.1 „The system partner in automation technology and in building automation technology“

Industries

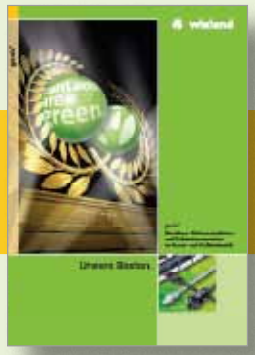
0403.1 „Safe solutions for the packaging sector“



0404.1 „Decentralized building automation with plug&play“ Educational facilities

Automation technology

Further documents and brochures can be downloaded quickly and easily via the Download Center on our homepage.



0165.0 „***gesis*** Pluggable electrical installation and building automation for indoor and outdoor applications“

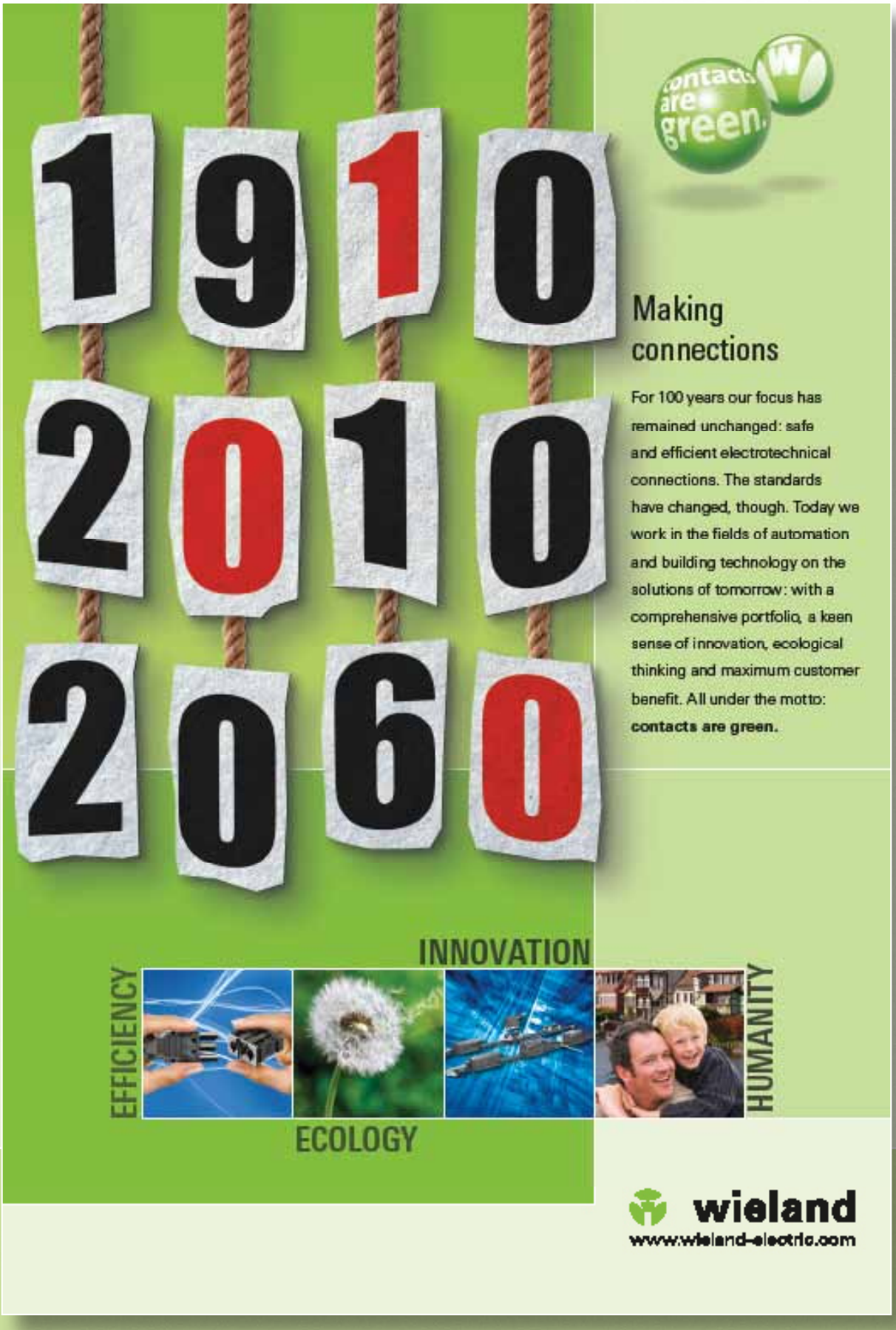
Building and installation technology

Wieland connects.

Wieland - 100 years in Bamberg.
Wieland is one of the most important employers in Bamberg and the surrounding area. The book portrays the life of the company's founder Friedrich H. („Fritz“) Wieland and the following generations, closely intertwined with the company's history. Available in bookshops.

100 years young
and full of innovative energy

Wieland Electric
1910–2010
WELCOME
FUTURE


1910
2010
2060
Making connections
For 100 years our focus has remained unchanged: safe and efficient electrotechnical connections. The standards have changed, though. Today we work in the fields of automation and building technology on the solutions of tomorrow: with a comprehensive portfolio, a keen sense of innovation, ecological thinking and maximum customer benefit. All under the motto: contacts are green.
INNOVATION
EFFICIENCY
HUMANITY
ECOLOGY
wieland
www.wieland-electric.com

In all areas
Solutions for the future

Information on the Internet

Interesting applications, informative product news, interesting facts about Wieland Electric... All of this can be found in our customer magazine ***wietalk***.

You can obtain ***wietalk*** even more conveniently via our subscription service. As a subscriber, you will receive the printed version free and conveniently by post. Download and registration for the subscription service can be found on our homepage under "Support".

Find the latest issues of our customer magazine in our download area – so you can stay up to date.

Pluggable installation solutions from Wieland

Additional information

Technical support
Automation technology:

- DIN rail terminal blocks ***fasis, selos, taris***®
  Phone: +49-9 51 93 24-991
- Safety technology ***safety***
  Phone: +49-9 51 93 24-999
- Remote I/O ***ricos***
  Phone: +49-9 51 93 24-995
- Power supply, surge protection, measuring and monitoring relays, timer relays, coupling relays, analog modules, passive interfaces ***interface***
  Phone: +49-9 51 93 24-995
- Remote power distribution ***podis***®
  Phone: +49-9 51 93 24-998
- Industrial multipole connectors ***revos***
  Phone: +49-9 51 93 24-997
- Appliance terminals, European terminal strips
  Phone: +49-9 51 93 24-993
- Housings for electronic components, PCB terminals and connectors ***wiecon***
  Phone: +49-9 51 93 24-994

Fax: +49-9 51 93 26-991
E-mail: AT.TS@wieland-electric.com

Sales hotline numbers:

- Questions for Sales on availability, delivery schedules, and pricing Phone: +49-951 9324-990

Technical support
Building services engineering:

- System connectors for building installation ***gesis***®, ***gesis***® RAN, ***gesis***® ELECTRONIC
  Phone: +49-9 51 93 24-996
- Photovoltaics ***gesis***® SOLAR
  Phone: +49-9 51 93 24-972
- DIN rail terminal blocks ***fasis*** BIT, ***selos*** BIT
  Phone: +49-9 51 93 24-992

Fax: +49-9 51 93 26-996
E-mail: BIT.TS@wieland-electric.com

Additional information zum Thema steckbare Installation:

Best of *gesis* Part No. 0165.0

Dezentrale Elektronik-Verteiler:

gesis ELECTRONIC
Everything follows a system Part No. 0160.8
gesis RAN Part No. 0160.9

for solar technology
gesis SOLAR flyer Part No. 0162.3
gesis SOLAR catalog Part No. 0164.0

Information about Wieland products in general:

Wieland Product Overview Part No. 0003.1

General information and news:
www.wieland-electric.com
Visit our eCatalog at wieland-electric.com

Our subsidiaries

... and the addresses of our representations worldwide are available at:
www.wieland-electric.com

USA
Wieland Electric Inc.
49 International Road
Burgaw, N.C. 28425
Phone +1-910-259 5050
Fax +1-910-259 3691
sales@wielandinc.com

CANADA
Wieland Electric Inc.
2889 Brighton Road
Oakville, Ontario L6H 6C9
Phone +1-905-829 8414
Fax +1-905-829 8413
info@wieland-electric.ca

GREAT BRITAIN
Wieland Electric Ltd.
Riverside Business Centre,
Walnut Tree Close
GB-Guildford /Surrey GU1 4UG
Phone +44-1483-531 213
Fax +44-1483-505 029
sales@wieland.co.uk

FRANCE
Wieland Electric SARL.
103, Chemin de Ronde
F-78290 Croissy-sur-Seine
Phone +33-1-30 15 07 07
Fax +33-1-30 15 07 14
infos@wieland-electric.fr

SPAIN
Wieland Electric S.L.
C/ Maria Auxiliadora 2 bajos
E-08017 Barcelona
Phone +34-93-252 3820
Fax +34-93-252 3825
ventas@wieland.es

ITALY
Wieland Electric S.r.l.
Via Edison, 209
I-20019 Settimo Milanese
Phone +39-02-48 91 63 57
Fax +39-02-48 92 06 85
info@wieland-electric.it

POLAND
Wieland Electric Sp. Zo.o.
Poznań Swadzim
ul. Św. Antoniego 8
62-080 Tarnowo Podgórne
Phone +48-61 84 09-101
Fax +48-61 84 07-166
office@wieland-electric.pl

CHINA
Wieland Electric Trading
Unit 2703
International Soho City
889 Renmin Rd., Huang Pu District
PRC- Shanghai 200010
Phone +86-21-63 555 833
Fax +86-21-63 550 090
info-shanghai@wieland-electric.cn

CZECH REPUBLIC
(Production)
Wieland Electric s.r.o.
Nadražní 1557
356 01 Sokolov
Phone +420-352 302 011
Fax +420-352 302 027

DENMARK
Wieland Electric A/S
Vallørækken 26
DK-4600 Køge
Phone +45-70-26 66 35
Fax +45-70-26 66 37
sales@wieland-electric.dk

Informational material for ordering and for downloading from our websites

Subject to technical modifications!

wieland

Headquarters:
Wieland Electric GmbH
Brennerstraße 10 – 14
D-96052 Bamberg

Sales and Marketing Center:
Wieland Electric GmbH
Benzstraße 9
D-96052 Bamberg

Phone +49-951-9324-0
Fax +49-951-9324-198
www.wieland-electric.com
www.gesis.com
info@wieland-electric.com

Industrial technology

Solutions for the control cabinet
- DIN rail terminal blocks
  - Screw, spring clamp or IDC connection technology
  - Wire cross sections up to 240 mm²
  - Numerous special functions
  - Software solutions interfacing to CAE systems
- Safety
  - Safety sensors
  - Safety relays
  - Modular safety systems with fieldbus link
- PLC and fieldbus components
  - Standard applications in IP 20
  - Increased environmental conditions with railroad and ship approvals
- Interface
  - Coupling relays, semiconductor switches
  - Measuring and monitoring relays
  - Timer and switching relays
  - Analog modules
  - Passive interfaces
  - Power supply units
  - Overvoltage protection

Solutions for field applications
- Remote automation technology
  - Power distribution
  - Fieldbus interfaces and motor starters
- Connectors for industrial applications
  - Square and round connectors
  - Aluminum or plastic housings
  - Degree of protection up to IP 68
  - Current-carrying capacity up to 100 A
  - Connectors for hazardous areas
  - Modular, application specific technology

PC board terminals and connectors
- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- Reflow or wave soldering process

Building and installation technology

- Building installation systems
  - Main power supply connectors IP 20/IP 65 ... IP 68
  - Bus connectors
  - Combined connectors
  - Low-voltage connectors
  - Power distribution system with flat cables
  - Distribution systems
  - Bus systems in KNX, LON and radio technology
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection

gesis® IP+

contacts are green.

0163.0 C 03/11

Product Range

wieland