wieland

RST® MICRO

MICRO **CONNECTION**

The innovative miniature electrical installation system with the highest IP protection rating.


HELLO
RST®

PLUGGABLE **INSTALLATION** WITH HIGH **IP PROTECTION.**

Wieland is your experienced and reliable partner for efficient electrical solutions. For over 40 years, with our connector systems we have been offering smart products and customized concepts for electrical installations while consistently striving to improve them.

Our round connectors were specially designed for efficient electrical installation in harsh environments and, thanks to their high level of protection in dusty, oily and moist areas of application, enable safe installation. The new RST® MICRO is used in a wide variety of demanding environments such as industry, event technology, garden lighting and illuminated advertising.

THE PLUG FOR:

+ SENSORS
+ PUMPS
+ LED TECHNOLOGY
+ LOUDSPEAKER SYSTEMS
+ DISPLAYS
+ LIGHT ADVERTISEMENTS

SPECIAL FEATURES

+ 2 to 5-pole
+ IP66/68 (3m; 2h)/69 protection
+ Optional contact seal

EXPERIENCE **CLEVER SOLUTIONS.**

As the world leader in the field of pluggable electrical installation Wieland provides a universally pluggable installation system: Complex installations can be realized, from the distribution unit to the point of use, with just four basic components.

An installation with RST® not only saves on costs, but also enables reconstructions at short notice without any problems.

Thanks to our expertise in the field of pluggable connections, you can be sure that every installation fitted with RST® is equipped for efficient installation and conversion. Added to this is the guarantee of consistent installation quality.

Maintenance and repairs can be carried out during operation without any problems, even under difficult conditions. Many manufacturers have recognized this trend and already offer their components with RST® connectors.

Unique on the market to date, Wieland has transferred its successful gesis® installation philosophy to new applications in the field of higher protection classes, thereby setting new standards.

RST®

IP66 / 68 (3m; 2h) **/ 69**

Degree of protection achieved:

IP65 Jet water
IP66 Powerful water jet

IP67 Temporary immersion
IP68 Permanent immersion (3m; 2h)

IP69 High-pressure water jet

POWER SUPPLY SYSTEM

DISTRIBUTION

ROUTING **ROUTING**

DEVICE CONNECTION **DEVICE CONNECTION**

wieland

FIVE TIMES FASTER.

CONVENTIONAL INSTALLATION

20 MIN

WORK STEPS:

POWER DISTRIBUTION:

1. Strip the cable jacket
2. Inserting the cable into the junction box
3. Stripping the wires
4. Connecting the wires
5. Closing the junction box

LUMINAIRE INSTALLATION:

1. Opening the consumer
2. Cut the cable to length
3. Inserting the cable into the consumer
4. Stripping the wires
5. Connecting the wires
6. Closing the consumer

PLUGGABLE INSTALLATION FROM WIELAND WITH RST®

4 MIN

WORK STEPS:

POWER DISTRIBUTION:

1. Select the desired length of your pre-assembled cable
2. Plug into distribution block

LUMINAIRE INSTALLATION:

1. Plug & Play

ADDITIONAL ADVANTAGES COMPARED TO CONVENTIONAL INSTALLATION:

- Touch-safe
- Simple cable routing
- Easy exchange of devices
- Easy expansions or modifications
- Reusable
- Mechanical codings
- Integrated locking and strain relief

RST® MICRO

Miniature connector with maximum IP protection

The 2- to 5-pole systems are currently the smallest members of the RST® family and are optimized for tight installation spaces. As usual with RST® in different codings and with IP protection 66 / 68 (2m; 3h) / 69. With its rated data, the miniature system is also ideal for network applications.

Figure in original size.

Connector diameter: 14.9 mm

Connector length: approx. 40 mm

The 2- & 3-pole connectors are characterized by a diameter of less than 15 mm. The corresponding device connections can be fastened in 14 mm through-holes.

IP66 waterproof · IP68 waterproof · IP69 waterproof · internal WATER STOP · DUST proof

DVE · cULus LISTED · DNV·GL · RINA

+ CONNECTION CROSS-SECTION 0.2 TO 1.00 MM^2
+ RATED VOLTAGE 250 V / 400 V,
  RATED CURRENT 8 A (10 A WITH 1.0 MM^2)
+ MAXIMUM IP PROTECTION
+ MECHANICAL AND COLORED
  CODING FOR SIMPLE
  AND RELIABLE DIFFERENTIATION
  OF MAINS AND EXTRA-LOW VOLTAGE

PRODUCT VIDEO

The RST® MICRO product video can be found on our Youtube channel.

Scan the QR code – watch the video.

RST® MICRO
The miniature connector for
LED lamps, signals and networks.

Figure in original size.

Connector diameter: 20 mm

Connector length: approx. 55 mm

The 4- & 5-pole variants were also developed with the aim of meeting the tightest spatial conditions on site. With a diameter of just 20 mm, the system can be installed in any position. The device connections can be fastened in 17 mm through-holes.

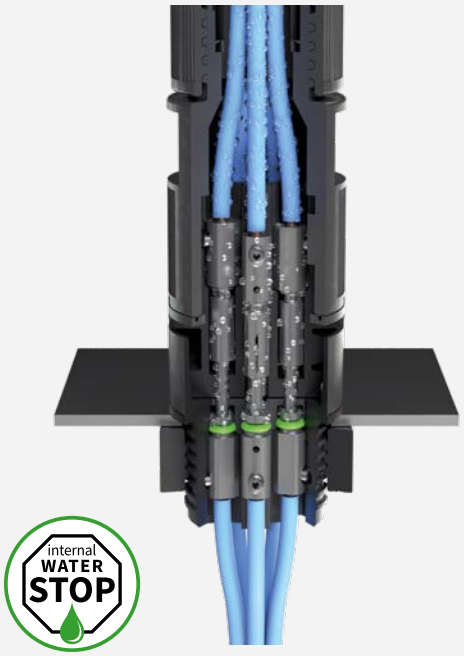
IP66 waterproof · IP68 waterproof · IP69 waterproof · internal WATER STOP · DUST proof

Pending: DVE · c UL us LISTED · DNV·GL · LR RINA

RST® MICRO **FEATURES**

ADDITIONAL PROTECTION DUE TO CONTACT SEAL

The contact seal protects against so-called "longitudinal water", i.e. moisture that gets into the inside of the cable But how does the moisture get into the cable in the first place? The cause may be an unintentionally damaged cable; even the smallest incisions allow water to find its way inside and migrate through the cable to the consumer due to the capillary effect. This can cause them to fail in rows. This is particularly annoying if expensive electronics are integrated.
The contact seal allows the leaking part to be isolated and repaired in a targeted manner. Instead of having to replace several devices, in the best case it is sufficient to replace just one pre-assembled cable to repair the installation. The consumers therefore remain undamaged by the contact seal.



The contact seal is only ever used on one side, more on this below under "Correct use".

CORRECT USE

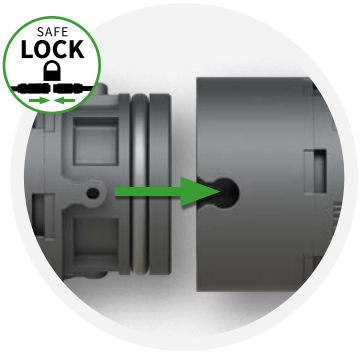
Only one side of each plug connection should be provided with the contact seal, i.e. either on the female or male side. To protect your appliance at all times, even when it is not in use, the side of the appliance should therefore preferably be fitted with a contact seal. This can be realized by direct installation of the corresponding device connection or with a flying connection with the plug connector.

The distribution elements of the system are only available in a version with contact seal; you can find out how you can benefit from this on page 10.

THE CORRECT ORDER NUMBER

The order numbers for the components with contact seal are obtained by replacing the second digit "1" of the regular order number with an "L". Distributors are only available in the version with contact seal. An overview of all order numbers can be found on pages 28-29.

Example
Article number 41.051.3053.1
↓
4L.051.3053.1

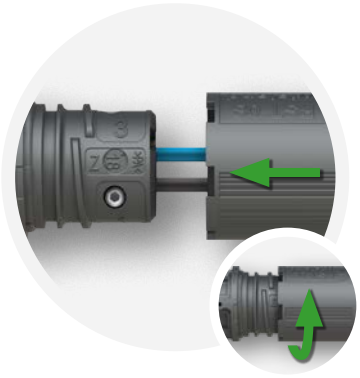


QUICKLY PLUGGED

No screwing or turning required - the lock engages automatically when plugged together.

EASY WIRE CONNECTION

With hexagon socket screws the screw-driver can be fastened and the wire can be connected much easier.



CONVENIENT QUICK-RELEASE FASTENER

Attach the sleeve and close it with only half a rotation.

FITS THROUGH STANDARD PIPES

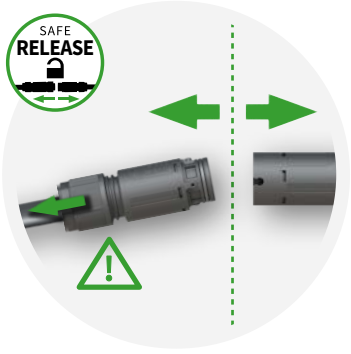
With diameters of 14.9 mm and 20 mm, the connectors can be pulled through standard steel conduits.

CAN BE INTEGRATED IN EXISTING INSTALLATIONS

Can be integrated into through-holes of 14 mm (2-/3-pole) and 17 mm (4-/5-pole).

SAFE INSTALLATION THANKS TO MECHANICAL + COLOR CODING

All connectors are coded when they leave the factory, so mismating is effectively prevented.



INSTALLED WITH FORESIGHT USING SAFETY LOCK

According to IEC61984, the strain relief (cable gland) must withstand a tensile force of 80 N for one minute. Our 60 N locking mechanism guarantees a secure hold of the connection, which opens in the event of an exceptionally high tensile force. This means that the high tensile force does not act on the strain relief and dangerous pulling of the conductors out of the contact points is avoided. Therefore, a locking device that can hold significantly more than the strain relief and the contact points is not recommended.

RST® MICRO **DISTRIBUTOR**

New technology: The use of overmolded blanks enables the new RST® MICRO line to be produced in the smallest possible sizes.

PERFECT PROTECTION THANKS TO INTEGRATED CONTACT SEAL

All variants of the distributors have integrated contact seals. These prevent moisture from penetrating further, e.g. through damaged cables. It makes sense to use components with contact sealing both directly on the load and in the electrical infrastructure as a barrier to protect several loads.

SMALL SIZE, LARGE SELECTION

In order to make optimum use of the installation space and meet the requirements of the applications, the portfolio offers variants with two Y-shaped outputs and three H-shaped outputs.

With a width of 68 mm or 54 mm (example 3-pole version), the distributors fit into even the tightest of spaces.

EXPANDABLE IN NO TIME AT ALL

The distributors are cascadable, i.e. they can be plugged into one another. This allows you to quickly create two additional outputs.

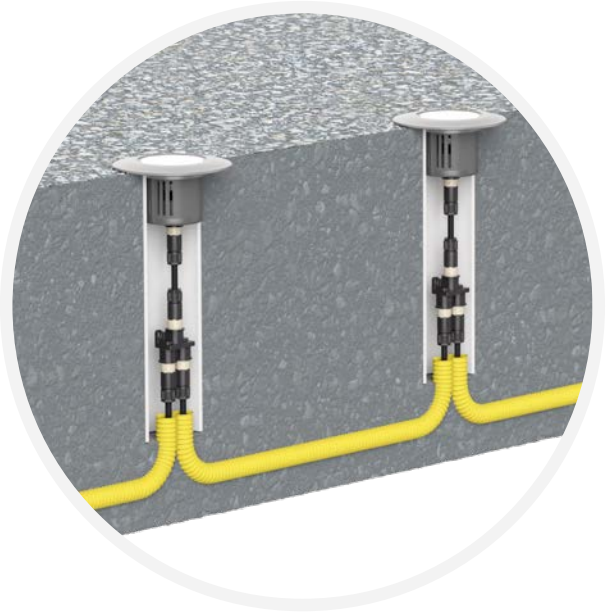
INTEGRATED FASTENING OPTION

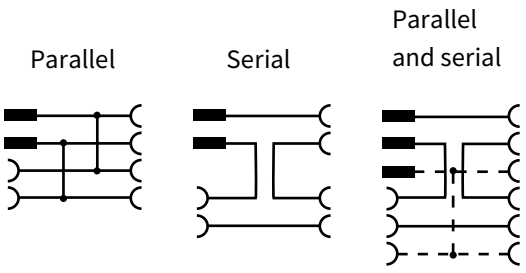
The fastening elements are integrated directly into the RST® MICRO distributor to save space. The distributors can be flexibly positioned and fastened using two 6 x 3.5 mm slotted holes. This eliminates the need for an additional component that serves as a fastening element.

IN PARALLEL OR SERIAL VERSION

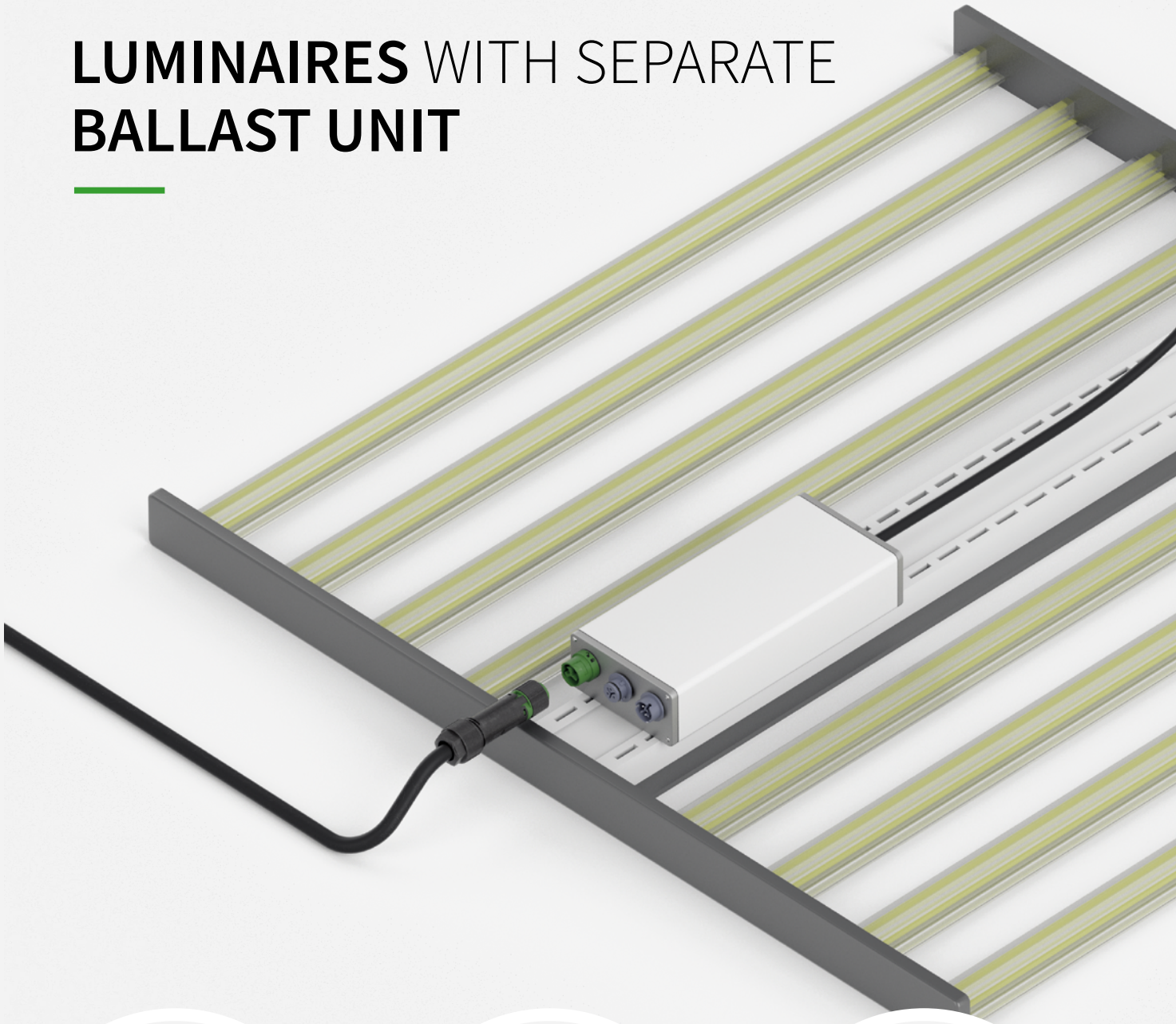
The internal wiring also offers different variations to meet the requirements. In addition to the parallel versions, serial versions are also available in the 2- and 3-pole range, whereby the PE is carried in parallel in the 3-pole version.

The serial wiring is identified by the pebble gray coding. Serial wiring is often used in recessed floor lights, for example.





LUMINAIRES WITH SEPARATE **BALLAST UNIT**



INPUT MAINS

The RST® MINI system is suitable for higher currents and larger cross-sections on the AC side for longer distances up to the ballast.

TAX SIGNALS

The signals for luminaire control are transmitted with the RST® MICRO in two- or three-pole versions. Low-voltage coding in slate and pebble gray is available for this purpose.

OUTPUT DRIVER

The RST08i3 in light blue coding for mains voltages is predestined for the DC supply from the ballast to the LED module. It can be integrated into the lights in a space-saving and unobtrusive way.

As shown here on a special greenhouse luminaire, the RST® MICRO is perfect for technical luminaires in industrial environments with a separate ballast. As this is optimized for the interface between voltage and current sources and the LED modules, you can also benefit from the pluggable electrical installation in this case.

The miniature connector is particularly suitable for the transmission of low voltage such as signals for lighting control, dimming via DALI or DMX applications. With its insulation coordinates, the smallest of its kind can even be used for mains voltages.

As the mains voltage often has to be transported over longer distances and therefore larger conductor connection cross-sections are required, the RST® MINI system is perfect for this. This enables a conductor connection of up to 2.5 mm² and offers a rated current of 16 A.

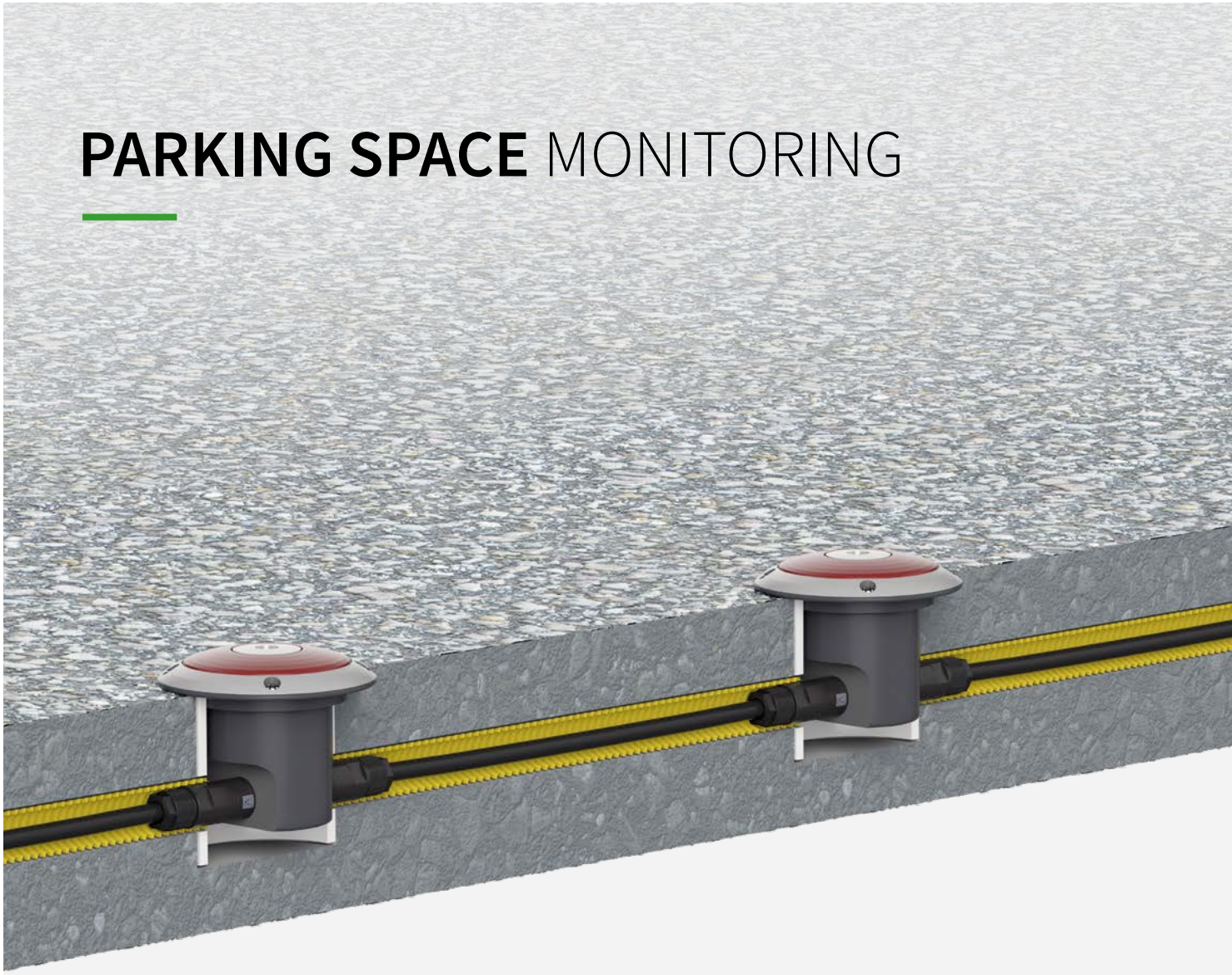
IN THIS APPLICATION :

AC mains supply
RST16i3 green
46.031.4555.7 | 46.032.5055.7

Control signals
RST08i2 slate gray
41.021.3041.4 | 41.022.3041.4
41.021.4041.4 | 41.022.4041.4

Driver-LED module connection
RST08i3 light blue
41.031.3043.9 | 41.032.3043.9
41.031.4043.9 | 41.032.4043.9

PARKING SPACE MONITORING



MAINS SUPPLY GATEWAY

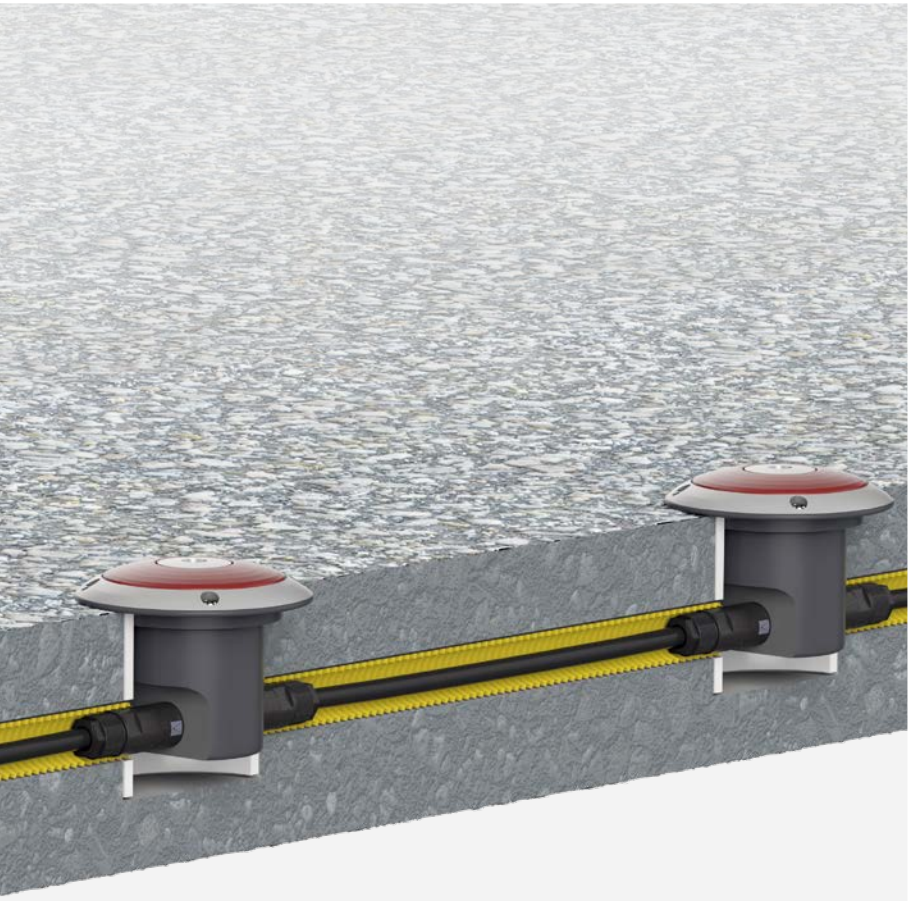
The gateway for mobile data transmission can also be supplied with RST®. If larger cross-sections are required due to the voltage drop, RST® MINI or RST® CLASSIC can be used.

IN THE PARKHOUSE

Whether with sensor or camera, parking space monitoring can be used in parking garages or underground garages (as a replacement for barriers). The RST® MICRO can easily be pulled through small pipes or on cable trays.

IN PARKING LOTS

In the case of conversions or new parking lots, the electrification is implemented underground. Moisture and dirt build up inside drainage pipes - this is where the RST® MICRO is perfect due to its high IP protection.



Parking lots and parking garages are increasingly being equipped with sensors to monitor them. This makes it easy to provide information on whether a parking space is occupied or whether a parker has reached the maximum parking time. When a new parking lot is created, sensors are often used that are embedded in the parking lot and connected to the network and signal underground. Another option for parking garages is to attach the sensors to cable trays. The 4-pin RST08 is suitable for this, as the sensors can be equipped with the device connection. The network and signal (CAN bus) can be transmitted using pre-assembled cables. When laying in a drainage pipe, however, attention must be paid to vertical laying.

Whether above or below ground, the RST® connector's high resistance to external influences makes it ideal for the demanding environment of a highly frequented parking garage.

IN THIS APPLICATION :

Mains + signal supply
RST08i4 slate gray
41.041.3041.4 | 41.042.3041.4
41.041.4041.4 | 41.042.4041.4

Further information on correct installation can be found in the white paper Outdoor area.

RST® INSTALLATION NOTES
Electrical installation instructions for outdoor areas.
Part No. 0693.1

LED LIGHTING ON **YACHTS AND SHIPS**

BACKBONE

The different RST® systems can be combined here. The backbone can be designed with RST® CLASSIC (up to 20 A) or RST® MINI (up to 16 A). This supplies the distribution boards with mains voltage.

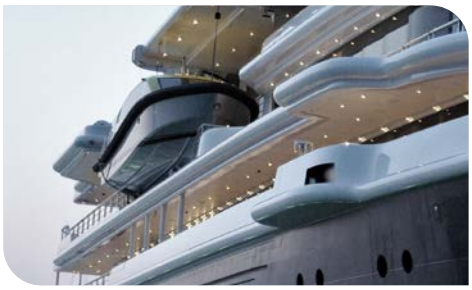
SUPPLY LED LIGHT

The LED luminaires are controlled from the distributors with RST® MICRO. The 5-pole version can be used for DALI or RGBW applications. Depending on the load, separate coding is available for mains or extra-low voltages.

INDIVIDUAL DISTRIBUTION BOXES

The system distributors required for the application can be provided by WIELAND according to your individual requirements. Please contact the Technical Advisory Service.

RST® is also used in shipbuilding. Thanks to its robust design, the system meets the requirements of the relevant approvals for shipbuilding. The MICRO system is ideal for outdoor lighting on yachts and ships. As high-pressure cleaners are used for cleaning due to the high salt load, the electrification must meet appropriate standards. With their high IP protection (66 / 68 (3m;2h) / 69), the RST® systems provide the ideal conditions for this.



IN THIS APPLICATION:

Backbone
RST20i5 turquoise blue
96.051.4153.6 | 96.052.4153.6
96.051.5053.6 | 96.052.5053.6

Driver - LED connection
RST08i5 light blue
41.051.3043.9 | 41.052.3043.9
4L.051.4043.9 | 4L.052.4043.9

Technical advice:
Building Solutions

E-mail: building@wieland-electric.com

Worldwide:
https://wie.li/contactinternational

FANS FOR DATA CENTER
AIR CONDITIONING SYSTEMS

MORE DEVICE CONNECTIONS

The interfaces to consumers can be equipped with contact sealing. They protect consumers if moisture enters the pipe system. The defective line is simply replaced and the system is operational again.

SMALLEST DISTRIBUTION

Even in the tightest installation situations, such as here in the cable duct, where other circuits are often integrated, our distribution blocks find their place thanks to their minimalist design.

MAXIMUM IP PROTECTION

Electrification directly on the roof. With IP 66 / 68 (3m; 2h) / 69, the RST® MICRO offers comprehensive resistance to dirt and moisture.

Very little space and adverse weather conditions - this is exactly where the RST® MICRO can show its advantages. Air conditioning systems for computer and data centers are often found on low-rise buildings of companies and factories. The top side is equipped with fans, leaving little space for the electrification of the fans. The four- or five-pole system with the very compact distributors is perfect for transferring energy from the control cabinet to the individual fans.

The longitudinal waterproofing already mentioned, which is also available, also comes into its own here and provides additional protection for ongoing operations, which is essential for computer and data centers in particular.

If maintenance or failures do occur, the decentralized system limits the affected components to a minimum!

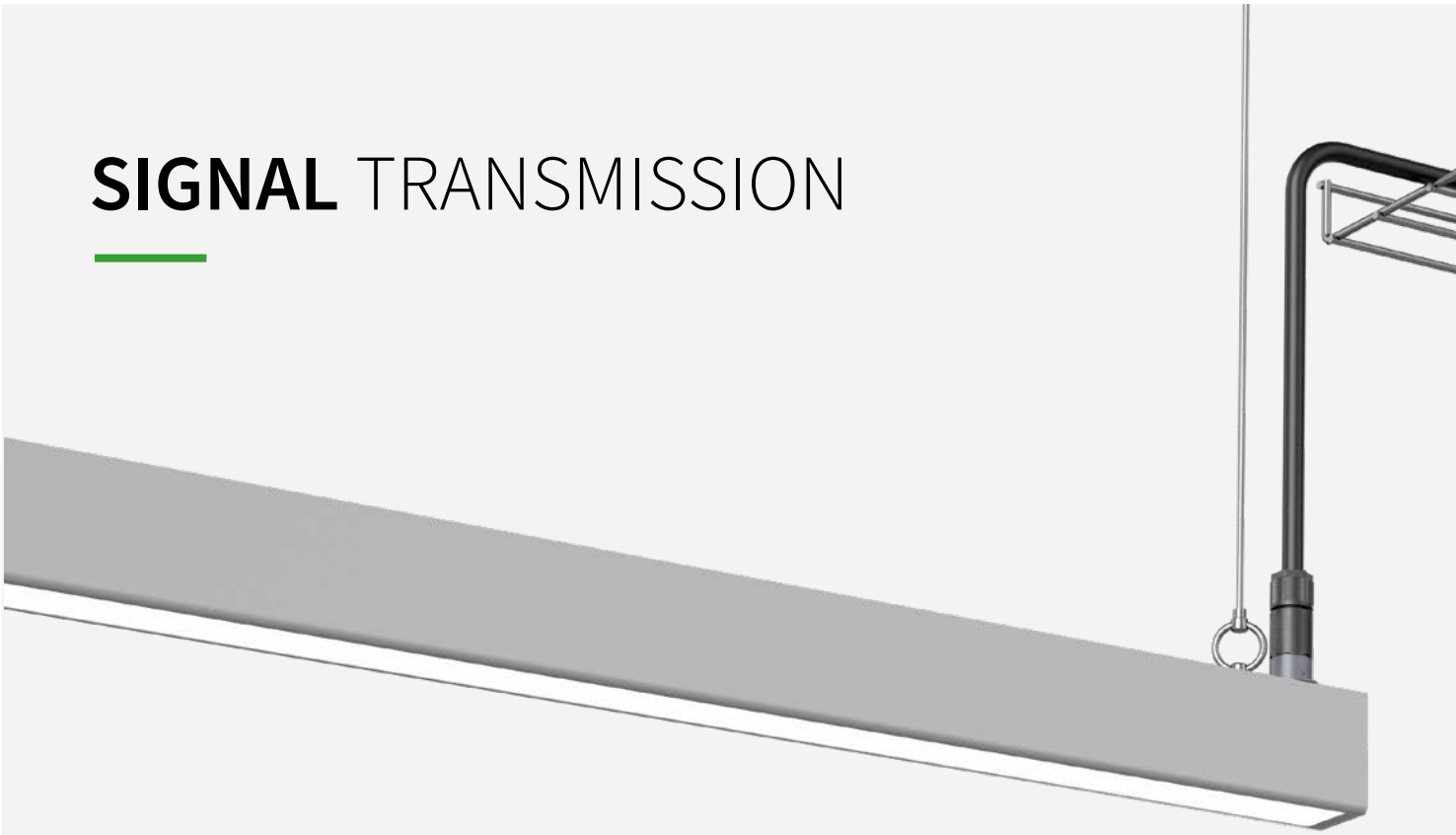
IN THIS APPLICATION:

Control cabinet interface
RST08i4 black
4L.041.4053.1 | 41.042.3053.1

Electrical infrastructure
41.041.3053.1

Fan connection
41.041.3053.1 | 4L.042.4053.1

SIGNAL TRANSMISSION



CODING LOW VOLTAGE

The slate gray coding of the 3-pole RST08 is intended for low-voltage applications without PE. The pebble gray version is suitable with PE. These differ in the pole labels.

FLYING CONNECTION

If you do not want to integrate the corresponding device connection directly in the sensor housing, you can also work with a flying lead, i.e. connector to connector.

The plug-in design can be used not only for the installation of continuous-row lighting systems themselves, but also for the installation of separately positioned sensors such as motion detectors. The RST® MICRO is suitable for transmitting low currents for signals or power supply for operating the sensors. Continuous-row lighting systems and motion detectors can be equipped with device connectors and connected with prefabricated cables. Alternatively, a flying lead between two connectors can be used if the device connection cannot be integrated directly into the sensor.

The RST® system also offers flexibility for use with voltages with and without PE, as it provides different codings for different applications.

IN THIS APPLICATION:

Continuous-row lighting system interface
RST08i3 slate gray
41.031.4041.4 | 41.032.3041.4

Sensor connection
RST08i3 slate gray
41.031.3041.4 | 41.032.4041.4

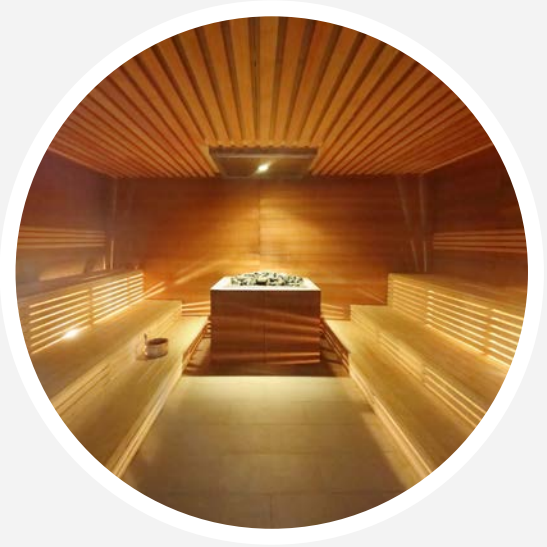
OTHER AREAS OF APPLICATION

Electrical installations with increased IP protection requirements can be found in industrial environments as well as in building and outdoor applications. Here you can find some examples for the use of RST® MICRO connectors. Here you can find some examples for the use of RST® MICRO connectors.

SAUNA

The electrical installation of a sauna must be installed in the spaces between the wall and ceiling. The risk of increased humidity and heat also places increased demands on the electrical installation.

The RST® MICRO is particularly resistant, as can be seen from a glance at the derating curve of the connector. Even at 80 °C, the connector can be loaded with 10 A. The complete derating curve can be found on page 27.



HEATING PANELS FOR WALLS AND CEILINGS

Heat and moisture play a role in this application, which seems to be made for RST® MICRO. In addition, there is the assembly, which presents a certain challenge. Usually mounted on ceilings or on the wall up to overhead height, the heating plate and connection are only partially accessible or very difficult to reach.

If in doubt, the panel must be fitted several times to reach the electrical connection at the rear. A side-mounted RST® MICRO appliance connection saves a lot of time and hassle when installing the heating plates.

COMMERCIAL KITCHENS

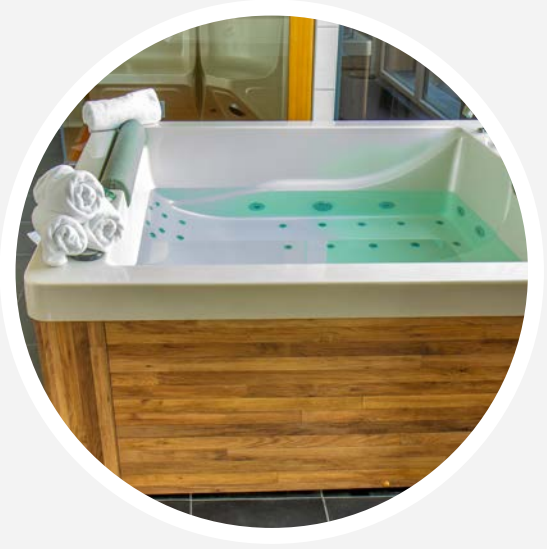
Kitchens are usually located indoors, which means that moisture usually occurs in certain areas. However, dust, dirt and grease accumulate over the years in the hard-to-reach spaces and gaps behind and between the appliances. This is where the electrical installation is often located.

This combination of different deposits creates creepage distances and thus potential hazards. Thanks to the high IP protection, however, these creepage distances pose no danger to the RST® MICRO. Thanks to its round and small design, the connector can be perfectly accommodated in confined spaces.

WHIRLPOOLS

The wiring of heating elements, pumps and lighting in whirlpools only needs to be accommodated in a small space. Therefore, the smartest possible electrification plays an important role.

In addition to protection against moisture, it must be ensured that defective devices can be easily replaced. As access is usually restricted, the RST® MICRO with all its advantages offers the perfect solution.



FUNCTIONAL ELECTRICAL APPLIANCES

The RST® MICRO can be used not only in industrial applications, but also in functional devices close to the end customer. IP protection, heat resistance and size also play an important role here.

LIGHT ADVERTISEMENTS AND DISPLAYS

Light advertisements are an integral component of our cities and characterize the urban landscape. The possibilities for presenting advertising messages in the right light seem almost limitless.

With the RST® MICRO you can benefit from a miniature connector that ensures an easy, transparent and high quality connection between ballasts and luminaires.

Everything is installed and protected against dirt and moisture in the twinkling of an eye!

SYSTEM DISTRIBUTORS AND CONTROL CABINETS

The trend for modular design continues consistently.

Entire system sections can be pre-assembled and tested independent of the location of operation.

On site, the individual modules are simply plugged together. The mechanically and color-coded connectors enable an extremely short installation time and ensure clear separation of different circuits.

DECORATIVE OUTDOOR LUMINAIRES AND EVENT LIGHTING

The professional electrical installation plays a crucial role, particularly in case of outdoor installations.

Difficult installation conditions often lead to a loss of the degree of protection and ultimately to failure of the lighting.

With its compact design and maximum protection rating, the RST® MICRO is a powerful partner for outdoor lighting. The optional water stop increases reliability.

ELECTRICAL EQUIPMENT AND APPARATUS ENGINEERING

Pluggable connectors have been on the rise for an easy commissioning of electrical equipment.

In case of expansions or when replacing faulty devices, the clear advantages of pluggable interfaces can be taken advantage of.

The extremely compact RST® MICRO, consisting of connectors and M14 or M17 device connections with corresponding sealing caps, is predestined for such tasks and offers unique performance in terms of IP protection.

RST® MICRO TECHNICAL DATA

	RST08i2/i3	RST08i4/i5
Rated voltage	250/400 V	250/400 V
Rated current	8 A, 10 A (1.0 mm² cables)	8 A, 10 A (1.0 mm² cables)
No. of poles	2- or 3-pole	4- or 5-pole
Connectable cable diameter*	4 - 7 mm	5 - 10.6 mm
Connector temperature range	- 40 °C to +100 °C	
Temperature range of the distributors	-40 °C to +80 °C	
Material	Contact parts: Brass, surface-treated	
	housing parts: Polyamide, halogen free, V0, f1	
	Sealing material: NBR	
Pollution degree	3 (when connected)	
Protection class	IP66/68 (3m; 2h)/69 barrier seal optional	
Mating cycles	1,200 for 2- & 3-pole version	
Certificates / approvals	VDE (according to IEC 61984), cULus, LR, DNV/GL, RINA, BV	

*Other diameters on request

RST® MICRO CABLE PREPARATION

Connectable cable cross-sections

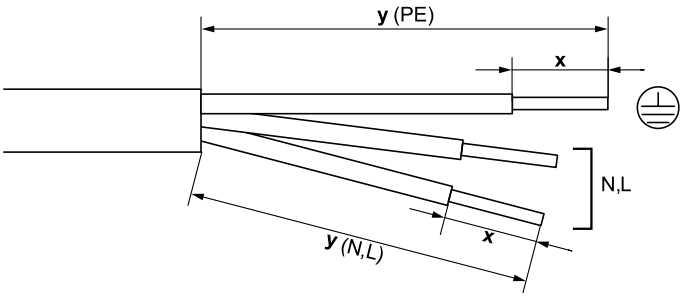
Cable	Solid	Fine-wired, no ferrule	finely stranded, with ferrule*
Screw connection	0.2 - 1.0 mm² / AWG 24 - 16	0.22 - 1.0 mm² / AWG 24 - 16	0.22 - 0.50 mm²

*Wire end ferrules without insulating collars must be used.

The RST® range of screw terminal connectors is suitable for connecting unprepared cables to EN 60999-1.

Sheath strip and wire strip lengths

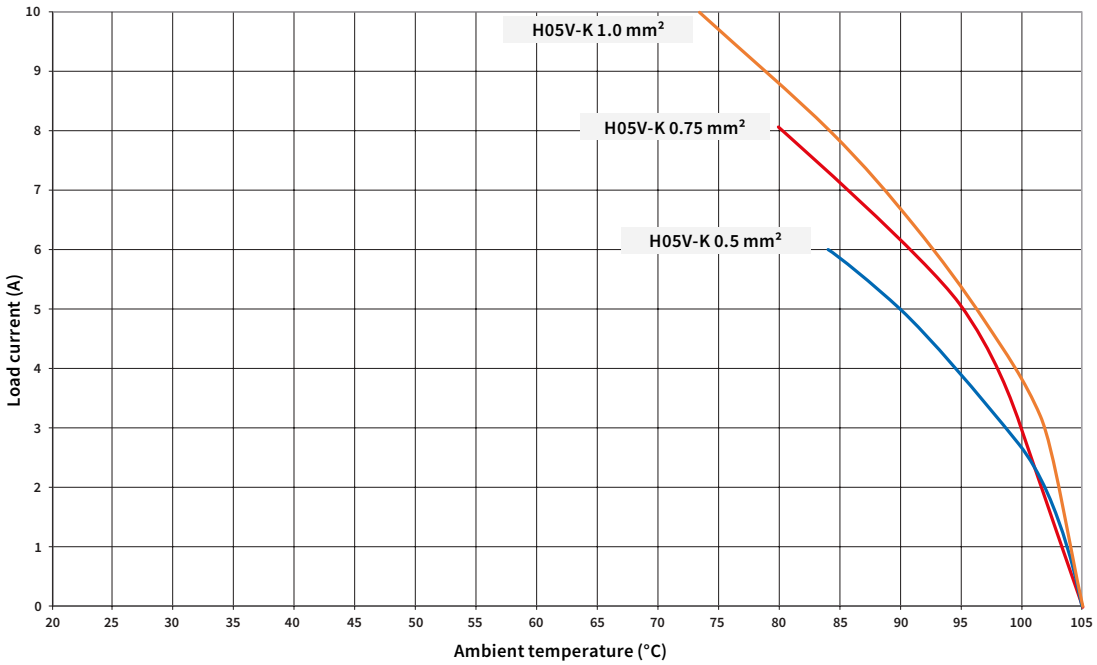
Cable	PE	N, L
Sheath strip length y	19	18
Wire strip length x	6	6



RST® MICRO DERATING CURVES

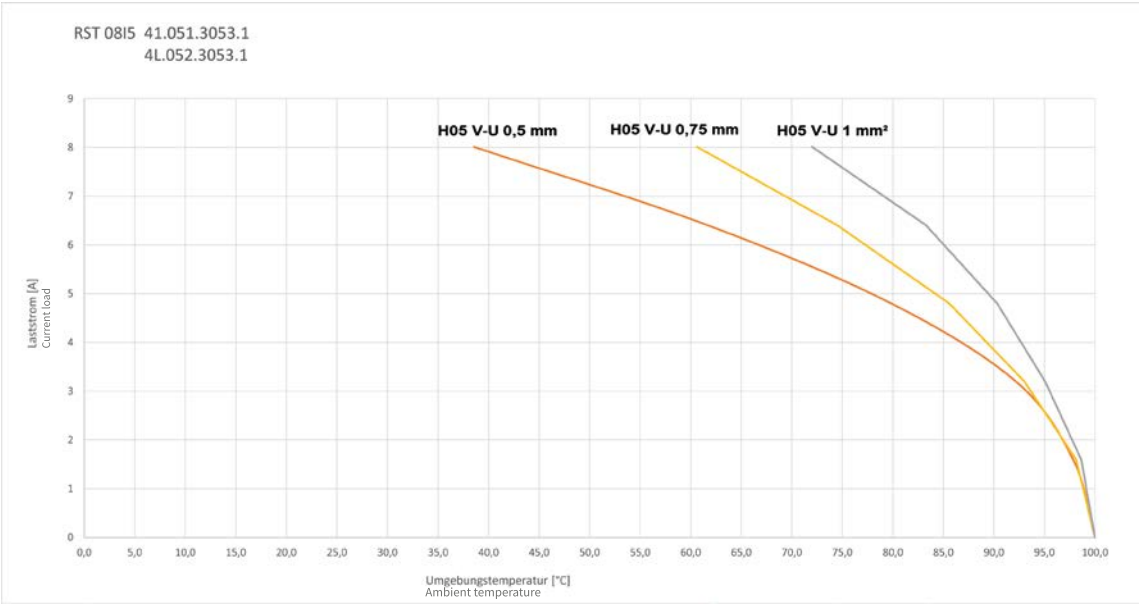
RST08i3

Derating curve to DIN EN 60512 Part 5-2; Test 5b



RST08i5

Derating curve to DIN EN 60512 Part 5-2; Test 5b



RST® MICRO | ORDER OVERVIEW

2-POLE, WITHOUT CONTACT SEAL, FOR CABLES Ø 4-7 MM

Color of coding	Application	Pole marking	Art. No.					
			CONNECTOR		DEVICE CONNECTOR		DISTRIBUTOR	
								
			Female	Male	Female	Male	1I/2O	1I/3O
● black	250/400 V	1, 2/N	41.021.3043.1	41.022.3043.1	41.021.4043.1	41.022.4043.1	—	—
● light blue	250/400 V	1, 2/N	41.021.3043.9	41.022.3043.9	41.021.4043.9	41.022.4043.9	—	—
● slate gray	~50/-120 V	1, 2	41.021.3041.4	41.022.3041.4	41.021.4041.4	41.022.4041.4	—	—
● pebble gray	~50/-120 V	1, 2	41.021.3041.8	41.022.3041.8	41.021.4041.8	41.022.4041.8	—	—

2-POLE, WITH CONTACT SEAL, FOR CABLES Ø 4-7 MM

Color of coding	Application	Pole marking	Art. No.					
			CONNECTOR		DEVICE CONNECTOR		DISTRIBUTOR	
			Female	Male	Female	Male	1I/2O	1I/3O
● black	250/400 V	1, 2/N	4L.021.3043.1	4L.022.3043.1	4L.021.4043.1	4L.022.4043.1	4L.020.1143.1	4L.020.0143.1
● light blue	250/400 V	1, 2/N	4L.021.3043.9	4L.022.3043.9	4L.021.4043.9	4L.022.4043.9	4L.020.1143.9	4L.020.0143.9
● slate gray	~50/-120 V	1, 2	4L.021.3041.4	4L.022.3041.4	4L.021.4041.4	4L.022.4041.4	4L.020.1141.4	4L.020.0141.4
● pebble gray	~50/-120 V	1, 2	4L.021.3041.8	4L.022.3041.8	4L.021.4041.8	4L.022.4041.8	4L.020.1241.8	4L.020.0241.8

3-POLE, WITHOUT CONTACT SEAL, FOR CABLES Ø 4-7 MM

Color of coding	Application	Pole marking	Art. No.					
			CONNECTOR		DEVICE CONNECTOR		DISTRIBUTOR	
			Female	Male	Female	Male		
● black	250/400 V PE	1, PE, 2/N	41.031.3053.1	41.032.3053.1	41.031.4053.1	41.032.4053.1	—	—
● light blue	250/400 V	1, 2/N, 3	41.031.3043.9	41.032.3043.9	41.031.4043.9	41.032.4043.9	—	—
● slate gray	~50/-120 V	1, 2, 3	41.031.3041.4	41.032.3041.4	41.031.4041.4	41.032.4041.4	—	—
● pebble gray	~50/-120 V PE	1, 2, PE	41.031.3051.8	41.032.3051.8	41.031.4051.8	41.032.4051.8	—	—

3-POLE, WITH CONTACT SEAL, FOR CABLES Ø 4-7 MM

Color of coding	Application	Pole marking	Art. No.					
			CONNECTOR		DEVICE CONNECTOR		DISTRIBUTOR	
			Female	Male	Female	Male	1I/2O	1I/3O
● black	250/400 V mit PE	1, PE, 2/N	4L.031.3053.1	4L.032.3053.1	4L.031.4053.1	4L.032.4053.1	4L.030.1153.1	4L.030.0153.1
● light blue	250/400 V	1, 2/N, 3	4L.031.3043.9	4L.032.3043.9	4L.031.4043.9	4L.032.4043.9	4L.030.1143.9	4L.030.0143.9
● slate gray	~50/-120 V	1, 2, 3	4L.031.3041.4	4L.032.3041.4	4L.031.4041.4	4L.032.4041.4	4L.030.1141.4	4L.030.0141.4
● pebble gray	~50/-120 V mit PE	1, 2, PE	4L.031.3051.8	4L.032.3051.8	4L.031.4051.8	4L.032.4051.8	4L.030.1351.8	4L.030.0351.8

CABLE ASSEMBLIES H05RN-F 0.75 MM²

Color of coding	Application	Pole marking	No. of poles	Art. No.		
				Extension cable	Female - Open end	Male - Open end
● black	250/400 V mit PE	1, PE, 2/N	3	41.437.**XX**30.1	41.437.**XX**33.1	41.437.**XX**34.1
● black	250/400 V	1, 2/N	2	41.427.**XX**30.1	41.427.**XX**33.1	41.427.**XX**34.1
● light blue	250/400 V	1, 2/N, 3	3	auf Anfrage	auf Anfrage	auf Anfrage
● light blue	250/400 V	1, 2/N	2	41.427.**XX**30.9	41.427.**XX**33.9	41.427.**XX**34.9
● slate gray	~50/-120 V	1, 2, 3	3	auf Anfrage	auf Anfrage	auf Anfrage
● slate gray	~50/-120 V	1, 2	2	41.427.**XX**32.4	41.427.**XX**37.4	41.427.**XX**38.4
● pebble gray	~50/-120 V mit PE	1, 2, PE	3	41.437.**XX**32.8	41.437.**XX**37.8	41.437.**XX**38.8
● pebble gray	~50/-120 V	1, 2	2	41.427.**XX**32.8	41.427.**XX**37.8	41.427.**XX**38.8

NOTE: For the required length, please replace "**XX**" with the length in dm incl. connector: 05 = 0.5 m; 10 = 1.0 m; 15 = 1.5 m; 20 = 2.0 m; 25 = 2.5 m; 30 = 3.0 m; 40 = 4.0 m.
For pre-assembled cables with contact seal or other cable types, please contact our Technical Advisory Service.

RST® MICRO | ORDER OVERVIEW

4-POLE, WITHOUT CONTACT SEAL, FOR CABLES Ø 5-10.6 MM

Color of coding	Application	Pole marking	Art. no.**			
			CONNECTOR		DEVICE CONNECTOR	
						
			Female	Male	Female	Male
● black	250/400 V PE	1, PE, 2/N, 3	41.041.3X53.1	41.042.3X53.1	41.041.4053.1	41.042.4053.1
● light blue	250/400 V	1, 2/N, 3, 4	41.041.3X43.9	41.042.3X43.9	41.041.4043.9	41.042.4043.9
● slate gray	~50/-120 V	1, 2, 3, 4	41.041.3X41.4	41.042.3X41.4	41.041.4041.4	41.042.4041.4
● pebble gray	~50/-120 V	1, 2, 3, 4	41.041.3X41.8	41.042.3X41.8	41.041.4041.8	41.042.4041.8

4-POLE, WITH CONTACT SEAL, FOR CABLES Ø 5-10.6 MM

Color of coding	Application	Pole marking	Art. no.**			
			CONNECTOR		DEVICE CONNECTOR	
● black	250/400 V PE	1, PE, 2/N, 3	4L.041.3X53.1	4L.042.3X53.1	4L.041.4053.1	4L.042.4053.1
● light blue	250/400 V	1, 2/N, 3, 4	4L.041.3X43.9	4L.042.3X43.9	4L.041.4043.9	4L.042.4043.9
● slate gray	~50/-120 V	1, 2, 3, 4	4L.041.3X41.4	4L.042.3X41.4	4L.041.4041.4	4L.042.4041.4
● pebble gray	~50/-120 V	1, 2, 3, 4	4L.041.3X41.8	4L.042.3X41.8	4L.041.4041.8	4L.042.4041.8

5-POLE, WITHOUT CONTACT SEAL, FOR CABLES Ø 5-10.6 MM

Color of coding	Application	Pole marking	Art. no.**			
			CONNECTOR		DEVICE CONNECTOR	
			Female	Male	Female	Male
● black	250/400 V PE	1, 2/N, 3, 4, PE	41.051.3X53.1	41.052.3X53.1	41.051.4053.1	41.052.4053.1
● light blue	250/400 V	1, 2/N, 3, 4, 5	41.051.3X43.9	41.052.3X43.9	41.051.4043.9	41.052.4043.9
● slate gray	~50/-120 V PE	1, 2, 3, 4, 5	41.051.3X41.4	41.052.3X41.4	41.051.4041.4	41.052.4041.4
● pebble gray	~50/-120 V	1, 2, 3, 4, PE	41.051.3X51.8	41.052.3X51.8	41.051.4051.8	41.052.4051.8

5-POLE, WITH CONTACT SEAL, FOR CABLES Ø 5-10.6 MM

Color of coding	Application	Pole marking	Art. no.**			
			CONNECTOR		DEVICE CONNECTOR	
			Female	Male	Female	Male
● black	250/400 V PE	1, 2/N, 3, 4, PE	4L.051.3X53.1	4L.052.3X53.1	4L.051.4053.1	4L.052.4053.1
● light blue	250/400 V	1, 2/N, 3, 4, 5	4L.051.3X43.9	4L.052.3X43.9	4L.051.4043.9	4L.052.4043.9
● slate gray	~50/-120 V PE	1, 2, 3, 4, 5	4L.051.3X41.4	4L.052.3X41.4	4L.051.4041.4	4L.052.4041.4
● pebble gray	~50/-120 V	1, 2, 3, 4, PE	4L.051.3X51.8	4L.052.3X51.8	4L.051.4051.8	4L.052.4051.8

ACCESSORIES

Cover piece

Pin wrench

Hexagon screwdriver

Designation	Description	Art. No.
Cover for female connector 2-/3-pole	With mounting strap for snapping on	06.563.5053.1
Cover for male connector 2-/3-pole	With mounting strap for snapping on	06.563.5153.1
Cover for female connector 4-/5-pole	With mounting strap for snapping on	06.564.1553.1
Cover for female connector 4-/5-pole	With mounting strap for snapping on	06.564.1653.1
Pin wrench SW 0.9	For connecting the wire	06.502.6100.0
Hexagon head screwdriver SW 0.9	For connecting the wire	06.502.6300.0
Sample case 3-pole		99.436.0000.1
Sample case 5-pole		99.437.0000.1

**NOTE: For the required cable diameter for the connector, please replace "X" with "0" or "1".
0 = 6.5 - 10.6 mm | 1 = 5.0 - 6.5 mm

RST® SYSTEM **OVERVIEW**

	RST® MICRO | RST08	**RST®** MINI | RST16
Connector for power supply to the connector system		
Device connectors are integrated directly into terminals and form the interface to the connector system		
Cable assemblies for transmission and supply of electrical energy or signals		
Distribution blocks for distributing electrical energy or signals within the network		
TECHNICAL DATA		
No. of poles	2 to 5-pole	2 to 5-pole
Rated current	8 A	16A
Rated voltage	250 V/400 V	250 V/400 V
Connector cross section	0.25...1.00 mm²	0.25...2.5 mm²
Certificates / approvals	2 and 3-pole: RINA 4- and 5-pole pending: RINA	RINA
Our eShop Scan QR code – view products in the E-SHOP.		

INFO **TO GO**

RST® CATALOG
Pluggable electrical installations with the highest IP rating (IP6x).
Art. No. 0690.1

RST® CLASSIC | RST20 / 25	**RST®** POWER | RST50
	
	
	–
	–
2-pole to 7-pole 20 A/32 A 250 V/400 V 0.2...6 mm²	4 and 5-pole 50 A 250 V/400 V 6...16 mm²

SYSTEM COMPONENTS

Connector
Connectors can be assembled on site. The connectors come as male and female connectors complete with strain relief and can be used to connect any current type of cable.

Device connectors
The devices can be easily plugged into the installation on site. There are different variants available for each system, from the one-piece standard connection down to the modular versions with different connection threads and output angles.

Cable assemblies
The electrical energy supply is implemented using cable assemblies. There are three different basic versions: Network connections cables are used for power supply to the RST® connector system. They are prepared for a conventional connection on the supply side or equipped with a Schuko plug and assembled with the necessary female connector on the output side. Extension cables are pre-assembled with a female or male connector on the relevant cable ends, and serve as a feedthrough wiring solution. The final feed to the end device is provided by the device connection cable, which is manufactured with a male connector and a prepared free cable end.

Distribution blocks
Distribution blocks have a central position in the electrical infrastructure. They are used for energy or signal distribution. The distribution block is wired in parallel or serial.

You can download all Wieland Electric brochures from our website:
https://www.wieland-electric.com/en/support/downloads

wieland

HEADQUARTERS

Wieland Electric GmbH
Brennerstrasse 10 – 14
96052 Bamberg · Germany

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

0697.1 S 01/24

Represented in over 70 countries worldwide:

www.**wieland**-electric.com