

**RST®**



**wieland**



# **Outdoor Lighting Solutions**

North America



**RST®**

## The cohesive system for efficient, pluggable installation of outdoor lighting solutions

### How can a pluggable installation benefit luminaire manufacturers?

Prefabrication and standardized interfaces reduce the effort involved in installation and offer flexibility of application. This **plug & play** concept revolutionized entertainment electronics and introduced IT into all areas of life. With the **RST®** connector system, Wieland brings the same **plug & play** concepts to the outdoor lighting industry.

### Quick and easy

The wide range of special components has been tailored to the requirements of our partners in the lighting industry to provide faster field installation times and less disruption to existing facilities. Fitters benefit from a time saving of 70%, and 30% lower costs when using Wieland connectors. Luminaire manufacturers benefit from a smaller inventory, a quick response time for variants, and simplified assembly.

### Safe and moisture-proof

Colored inserts and mechanical codings enable clear assignments and prevent mismatching. **RST®** system plugs provide a consistent and reliable electrical connection, meeting the requirements for a permanent connection in fixed installations under the CSA and UL standards. Waterproof rating of IP69K and NEMA rating of up to 6P makes them ideal for outdoor use.

### Conventional installation

#### Work steps:

#### Luminaire installation:

- Open the luminaire
- Cut the cable to length
- Insert the wire into the luminaire
- Strip the wire insulation
- Connect the individual wires
- Close the luminaire



### Pluggable installation from Wieland

#### Work steps:

- Attach the luminaire
- plug & play



### **RST®** MINI

Optimized to fit confined spaces



### **RST®** CLASSIC

The most versatile and comprehensive line



### **RST®** POWER

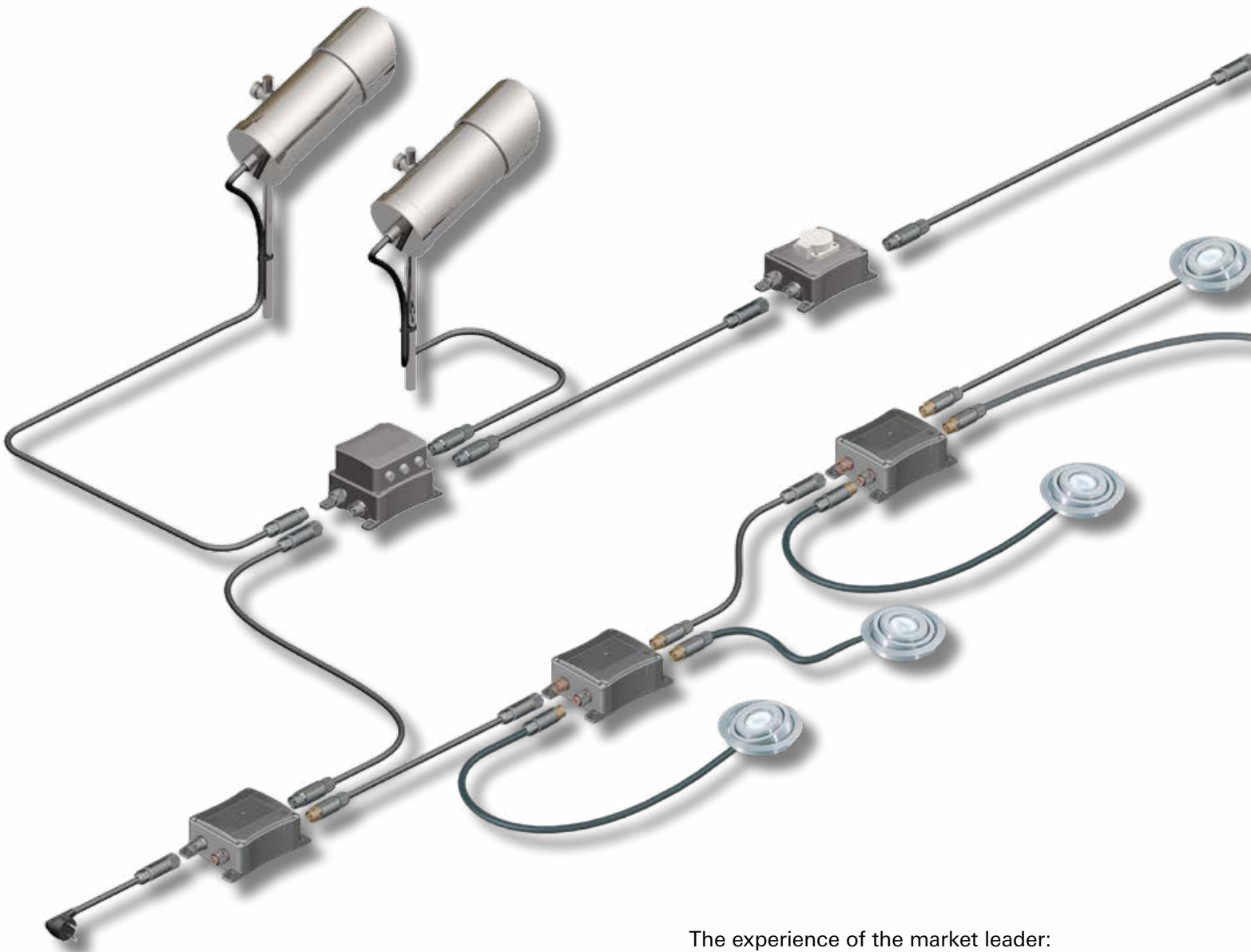
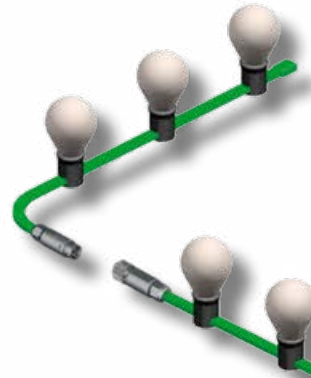
High-current connectors for large cross-sections

# ***plug & play*** in outdoor applications

## Modular system electrical installations

### Consistent and reliable 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
- Pre-assembled cable harnesses



The experience of the market leader:

**40 years of pluggable  
electrical installation**

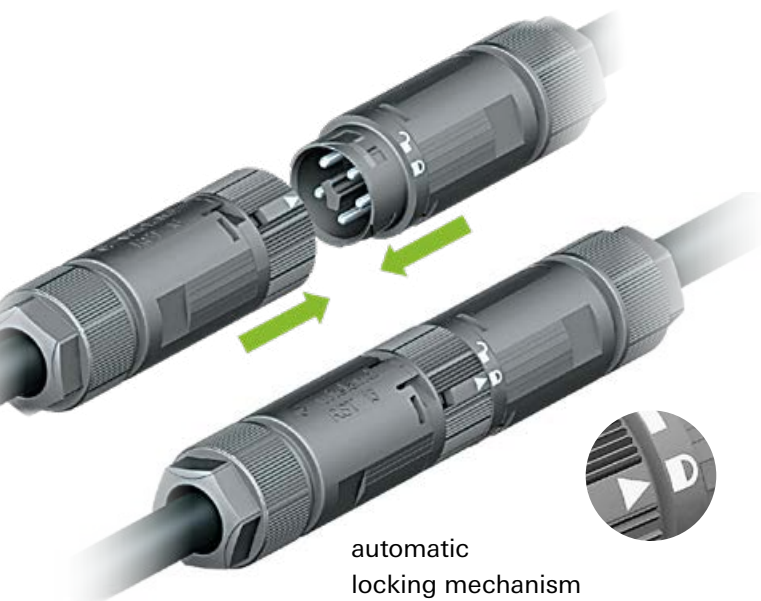
# **RST**<sup>®</sup> MINI plug & play

## Optimized for installation in small spaces

The **RST**<sup>®</sup> MINI series adds compact designs to the **RST**<sup>®</sup> installation system bringing more versatility of application.

The 2- to 5-pole plug connectors and device connectors are designed for 300V to 600V and 16A, and are all available with the screw connection technology that is trusted by electricians.

Customized distribution blocks and pre-assembled cables offer a huge range of possibilities to fit any industry.



automatic locking mechanism

### Benefits at a glance

- TWISTLOCK technology
- Compact design
- Color-coded and mechanically coded
- Easy to install
- Save up to 70% of installation time
- Pre-assembled cable harnesses

### Easy Assembly

The connector housing is designed in two parts to allow for easy assembly, saving you valuable installation time.

Use the QR to download installation instructions for the **RST**<sup>®</sup> MINI series, or go to:

[www.eshop.wieland-electric.com](http://www.eshop.wieland-electric.com)



# RST16i

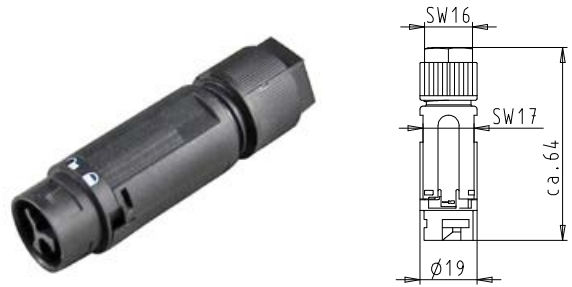
## Straight cable connectors



	2/3 Pole		4/5 Pole	
	IEC	cUL <sub>US</sub>	IEC	cUL <sub>US</sub>
Cable Ø	5.0 – 9.5 mm		7.1 – 13 mm	
Voltage	250/400 V	300V	250/400 V	600V
Current	16 A	16A	16 A	16A
Wire Size	0.25 - 1.5 mm <sup>2</sup>	24-16AWG	0.25 - 2.5 mm <sup>2</sup>	22-16AWG
Protection	IP69K	4X	IP69K	4X / 6P
Disconnect Under Load		300 Vac / 16 A		350 Vac / 16 A



2/3 Pole Cable Mount Female



2/3 Pole Cable Mount Male

RST16i2	Color	Cable Mount Female	Cable Mount Male
with screw connection			
2 Pole	light gray	46.031.4554.0	46.032.4554.0
	black	46.031.4554.1	46.032.4554.1
	light blue	46.031.4554.9	46.032.4554.9
	turquoise	46.031.4551.6	46.032.4551.6
	brown	46.031.4551.4	46.032.4551.4

RST16i3	Color	Cable Mount Female	Cable Mount Male
with screw connection			
3 Pole	light gray	46.031.4553.0	46.032.4553.0
	black	46.031.4553.1	46.032.4553.1
	green	46.031.4555.7	46.032.4555.7
	light blue	46.031.4553.9	46.032.4553.9
	turquoise	46.031.4550.6	46.032.4550.6
	brown	46.031.4550.4	46.032.4550.4



4/5 Pole Cable Mount Female



4/5 Pole Cable Mount Male

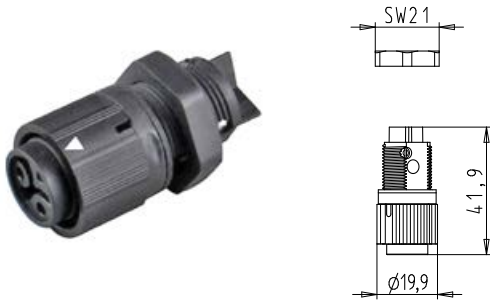
RST16i4	Color	Cable Mount Female	Cable Mount Male
with screw connection			
4 Pole	light gray	46.051.4554.0	46.052.4554.0
	black	46.051.4554.1	46.052.4554.1
	brown	46.051.4551.4	46.052.4551.4

RST16i5	Color	Cable Mount Female	Cable Mount Male
with screw connection			
5 Pole	light gray	46.051.4553.0	46.052.4553.0
	black	46.051.4553.1	46.052.4553.1
	turquoise	46.051.4553.6	46.052.4553.6
	brown	46.051.4550.4	46.052.4550.4

Black and light gray have the same mechanical coding and can intermate.

# RST16i






## Straight M16 device connectors









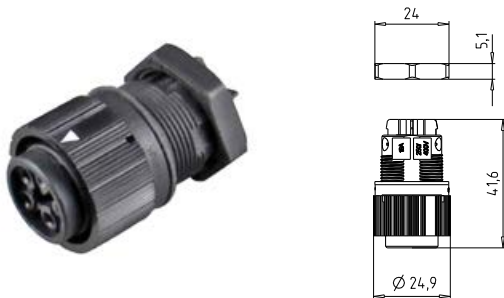
2/3 Pole Panel Mount Female



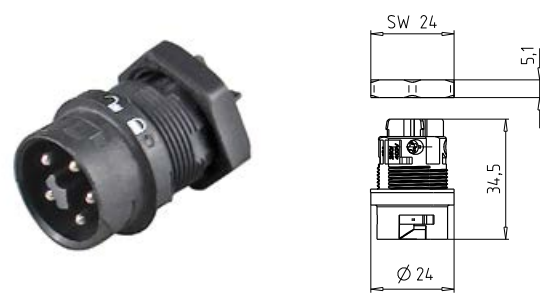
2/3 Pole Panel Mount Male

RST16i2	Color	Panel Mount Female	Panel Mount Male
with screw connection			
2 Pole	 light gray	46.031.5054.0	46.032.5054.0
	 black	46.031.5054.1	46.032.5054.1
	 light blue	46.031.5054.9	46.032.5054.9
	 turquoise	46.031.5051.6	46.032.5051.6
	 brown	46.031.5051.4	46.032.5051.4




RST16i3	Color	Panel Mount Female	Panel Mount Male
with screw connection			
3 Pole	 light gray	46.031.5053.0	46.032.5053.0
	 black	46.031.5053.1	46.032.5053.1
	 green	46.031.5055.7	46.032.5055.7
	 light blue	46.031.5053.9	46.032.5053.9
	 turquoise	46.031.5050.6	46.032.5050.6
	 brown	46.031.5050.4	46.032.5050.4








4/5 Pole Panel Mount Female



4/5 Pole Panel Mount Male

RST16i4	Color	Panel Mount Female	Panel Mount Male
with screw connection			
4 Pole	 light gray	46.051.5054.0	46.052.5054.0
	 black	46.051.5054.1	46.052.5054.1
	 brown	46.051.5051.4	46.052.5051.4

RST16i5	Color	Panel Mount Female	Panel Mount Male
with screw connection			
5 Pole	 light gray	46.051.5053.0	46.052.5053.0
	 black	46.051.5053.1	46.052.5053.1
	 light blue	46.051.5053.9	46.052.5053.9
	 turquoise	46.051.5053.6	46.052.5053.6
	 brown	46.051.5050.4	46.052.5050.4

## Value Added Services

Pre-assembled cable harnesses can be ordered for easy, hassle free installation. Contact your local representative for more information: +1 800 943 5263



Black and light gray have the same mechanical coding and can intermate.

# Splitters and distribution boxes



RST splitter unit

RST compact distribution unit

RST16i	Color	Input	Output	Part no.
2 Pole	black	1	2	46.030.1254.1
	light gray	1	2	46.030.1254.0
	light blue	1	2	46.030.1254.9
	turquoise	1	2	46.030.1251.6
	brown	1	2	46.030.1251.4

RST16i	Color	Input	Output	Part no.
2 Pole	black	1	3	46.030.0154.1
	light gray	1	3	46.030.0154.0
	light blue	1	3	46.030.0154.9
	turquoise	1	3	46.030.0151.6
	brown	1	3	46.030.0151.4

RST16i	Color	Input	Output	Part no.
3 Pole	black	1	2	46.030.1253.1
	light gray	1	2	46.030.1253.0
	green	1	2	46.030.1255.7
	light blue	1	2	46.030.1253.9
	turquoise	1	2	46.030.1250.6
	brown	1	2	46.030.1250.4

RST16i	Color	Input	Output	Part no.
3 Pole	black	1	3	46.030.0153.1
	light gray	1	3	46.030.0153.0
	green	1	3	46.030.0155.7
	light blue	1	3	46.030.0153.9
	turquoise	1	3	46.030.0150.6
	brown	1	3	46.030.0150.4

RST16i	Color	Input	Output	Part no.
4 Pole	black	1	2	46.050.1254.1
	light gray	1	2	46.050.1254.0
	brown	1	2	46.050.1251.4

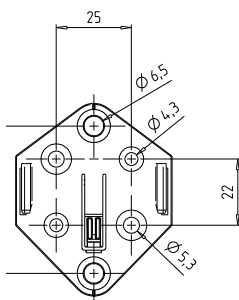
RST16i	Color	Input	Output	Part no.
4 Pole	black	1	2	46.050.0154.1
	light gray	1	2	46.050.0154.0
	brown	1	2	46.050.0151.4

RST16i	Color	Input	Output	Part no.
5 Pole	black	1	2	46.050.1253.1
	light gray	1	2	46.050.1253.0
	light blue	1	2	46.050.1253.9
	turquoise	1	2	46.050.1253.6
	brown	1	2	46.050.1250.4

RST16i	Color	Input	Output	Part no.
5 Pole	black	1	2	46.050.0153.1
	light gray	1	2	46.050.0153.0
	light blue	1	2	46.050.0153.9
	turquoise	1	2	46.050.0153.6
	brown	1	2	46.050.0150.4

Inputs are male and outputs are female.

## Mounting Plate For splitters



RST16i	Color	Part no.
All Poles	black	06.562.5853.1
	light gray	06.562.5853.0

## Accessories Cover caps



RST16i	Color	For female	For male
2/3 Pole	black	Z6.561.6953.1	Z6.561.7253.1
	light gray	Z6.561.6953.0	Z6.561.7253.0

RST16i	Color	For female	For male
4/5 Pole	black	Z6.561.6853.1	Z6.561.7153.1
	light gray	Z6.561.6853.0	Z6.561.7153.0

## Micro Options

Coming soon the **RST**<sup>®</sup> line will offer a miniature connector rated for outdoor waterproof applications. The **RST**<sup>®</sup> MICRO will measure only 0.75 mm<sup>2</sup> at the cross-section, come in 2 and 3-pole configurations, have a protection rating of Type 4x and Type 6p, and a rated current of up to 8A and a voltage of up to 350V\*. Find out more about this powerful new connector by contacting your Wieland representative +1 800 943 5263.

\*UL approvals pending





# RST® CLASSIC

## Versatile plug & play for outdoor applications

The **RST®** is a complete installation system optimally adapted to the increased requirements of outdoor electrical installations.

The **plug & play** technology makes installation in difficult and time-sensitive conditions easy and reliable. Luminaires can be delivered in pre-assembled designs and plugged in on-site. In addition, they are safe against accidental disconnection under load and provide a locking mechanism against accidental loosening.

High environmental ratings of IP69K and NEMA 6P makes the system suitable for the harsh weather conditions of outdoor installations.



### Easy Assembly

The connector housing is designed in two parts to allow for easy assembly, saving you valuable installation time.

Use the QR to download installation instructions for the **RST®20i2/3**. Find additional assembly instructions on all **RST®CLASSIC** line products and connection types at:

[www.eshop.wieland-electric.com](http://www.eshop.wieland-electric.com)



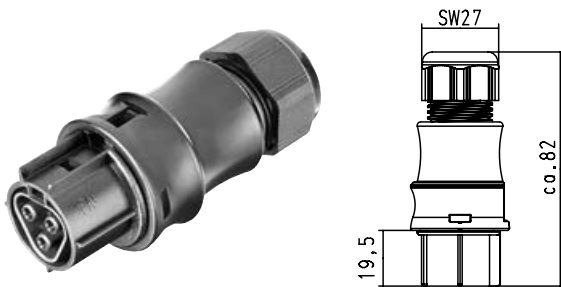
RST20i2/3 Pole Instructions

# RST20i

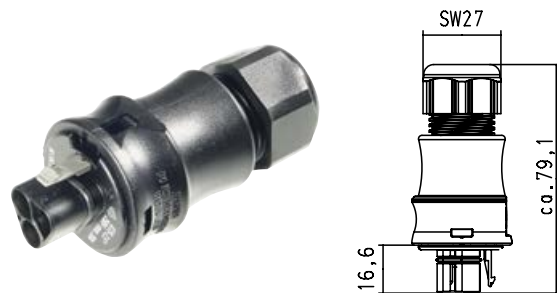
## Straight cable connectors



	2/3 Pole			4/5 Pole		
	IEC	UR (screw connection only)	CSA	IEC	UR (screw connection only)	CSA
Cable Ø	6 - 10 mm / 10 - 14 mm / 13 - 18 mm			6 - 10 mm / 10 - 14 mm / 13 - 18 mm		
Voltage	400 V	600 V	600 V	250/400 V	600 V	600 V
Current	16 A	20 A	20 A	16 A	20 A	20 A
Wire Size	0.25 - 1.5 mm <sup>2</sup>	16-10 AWG	20-12 AWG	0.25 - 1.5 mm <sup>2</sup>	18-14 AWG	18-12 AWG
Environment	IP69K		4X / 6P	IP69K		4X / 6P
Disconnect Under Load		250 Vac / 20 A*	350 Vac / 20 A*		250 Vac / 20 A*	350 Vac / 20 A*



2/3 Pole Cable Mount Female



2/3 Pole Cable Mount Male

RST 20i2	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male	Cable Mount Female	Cable Mount Male
			with screw connection		with spring clamp connection	
2 Pole		light gray 6-10	96.021.4053.0	96.022.4053.0	96.021.0053.0	96.022.0053.0
		light gray 10-14	96.021.4153.0	96.022.4153.0	96.021.0153.0	96.022.0153.0
		black 6-10	96.021.4053.1	96.022.4053.1	96.021.0053.1	96.022.0053.1
		black 10-14	96.021.4153.1	96.022.4153.1	96.021.0153.1	96.022.0153.1
		brown 6-10	96.021.4051.4	96.022.4051.4	96.021.0051.4	96.022.0051.4
		pebble gray 6-10	96.021.4050.8	96.022.4050.8	96.021.0050.8	96.022.0050.8

RST 20i3	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male	Cable Mount Female	Cable Mount Male
			with screw connection		with spring clamp connection	
3 Pole		light gray 6-10	96.031.4053.0	96.032.4053.0	96.031.0053.0	96.032.0053.0
		light gray 10-14	96.031.4153.0	96.032.4153.0	96.031.0153.0	96.032.0153.0
		black 6-10	96.031.4053.1	96.032.4053.1	96.031.0053.1	96.032.0053.1
		black 10-14	96.031.4153.1	96.032.4153.1	96.031.0153.1	96.032.0153.1
		green 6-10	96.031.4055.7	96.032.4055.7	96.031.0055.7	96.032.0055.7
		green 10-14	96.031.4155.7	96.032.4155.7	96.031.0155.7	96.032.0155.7
		light blue 6-10	96.031.4053.9	96.032.4053.9	96.031.0053.9	96.032.0053.9
		light blue 10-14	96.031.4153.9	96.032.4153.9	96.031.0153.9	96.032.0153.9
		brown 6-10	96.031.4051.4	96.032.4051.4	96.031.0051.4	96.032.0051.4
		brown 10-14	96.031.4151.4	96.032.4151.4	96.031.0151.4	96.032.0151.4

\*If Disconnect Under Load is required in your application, please consult Wieland to get the most up-to-date information.

# RST20i

## Straight cable connectors



4/5 Pole Cable Mount Female

4/5 Pole Cable Mount Male

RST 20i4	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male	
with screw connection					
4 Pole		light gray	6-10	96.041.4053.0	96.042.4053.0
		light gray	10-14	96.041.4153.0	96.042.4153.0
		black	6-10	96.041.4053.1	96.042.4053.1
		black	10-14	96.041.4153.1	96.042.4153.1
		brown	6-10	96.041.4051.4	96.042.4051.4

RST 20i5	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male	
with screw connection					
5 Pole		light gray	6-10	96.051.4053.0	96.052.4053.0
		light gray	10-14	96.051.4153.0	96.052.4153.0
		black	6-10	96.051.4053.1	96.052.4053.1
		black	10-14	96.051.4153.1	96.052.4153.1
		turquoise	6-10	96.051.4053.6	96.052.4053.6
		turquoise	10-14	96.051.4153.6	96.052.4153.6
		light blue	6-10	96.051.4053.9	96.052.4053.9
		light blue	10-14	96.051.4153.9	96.052.4153.9
		brown	6-10	96.051.4051.4	96.052.4051.4
		brown	10-14	96.051.4151.4	96.052.4151.4
		yellow	6-10	96.051.4053.2	96.052.4053.2

### Value Added Services

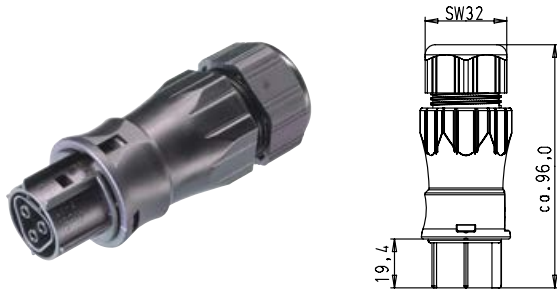
Pre-assembled cable harnesses can be ordered for easy, hassle free installation. Contact your local representative for more information: +1 800 943 5263



Black and light gray have the same mechanical coding and can intermate.

# RST20i

Straight cable connectors 13 - 18 mm

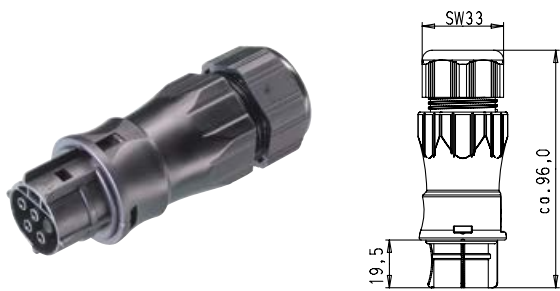


3 Pole Cable Mount Female



3 Pole Cable Mount Male

RST 20i3	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male	
with screw connection					
3 Pole		light gray	13-18	96.031.4553.0	96.032.4553.0
		black	13-18	96.031.4553.1	96.032.4553.1
		green	13-18	96.031.4555.7	96.032.4555.7
		light blue	13-18	96.031.4553.9	96.032.4553.9



4/5 Pole Cable Mount Female



4/5 Pole Cable Mount Male

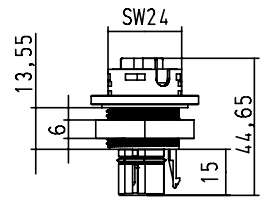
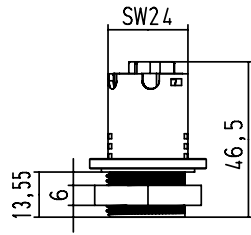
RST 20i4	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male	
with screw connection					
4 Pole		light gray	13-18	96.041.4553.0	96.042.4553.0
		black	13-18	96.041.4553.1	96.042.4553.1

RST 20i5	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male	
with screw connection					
5 Pole		light gray	13-18	96.051.4553.0	96.052.4553.0
		black	13-18	96.051.4553.1	96.052.4553.1
		turquoise	13-18	96.051.4553.6	96.052.4553.6
		light blue	13-18	96.051.4553.9	96.052.4553.9
		brown	13-18	96.051.4551.4	96.052.4551.4

Black and light gray have the same mechanical coding and can intermate.

# RST20i

Straight, standard M25 device connectors

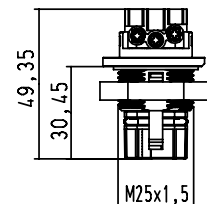
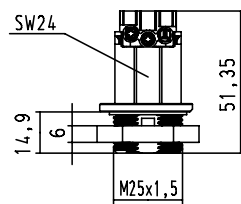


2/3 Pole Panel Mount Female

2/3 Pole Panel Mount Male

RST 20i2	Color	Cable Mount Female	Cable Mount Male	Cable Mount Female	Cable Mount Male
		with screw connection		with spring clamp connection	
2 Pole	light gray	96.021.5053.0	96.022.5053.0	96.021.1053.0	96.022.1053.0
	black	96.021.5053.1	96.022.5053.1	96.021.1053.1	96.022.1053.1
	brown	96.021.5051.4	96.022.5051.4	96.021.1051.4	96.022.1051.4
	pebble gray	96.021.5050.8	96.022.5058.8	96.021.1050.8	96.022.1050.8

RST 20i3	Color	Cable Mount Female	Cable Mount Male	Cable Mount Female	Cable Mount Male
		with screw connection		with spring clamp connection	
3 Pole	light gray	96.031.5053.0	96.032.5053.0	96.031.1053.0	96.032.1053.0
	black	96.031.5053.1	96.032.5053.1	96.031.1053.1	96.032.1053.1
	green	96.031.5055.7	96.032.5055.7	96.031.1055.7	96.032.1055.7
	light blue	96.031.5053.9	96.032.5053.9	96.031.1053.9	96.032.1053.9
	brown	96.031.5051.4	96.032.5051.4	96.031.1051.4	96.032.1051.4



4 Pole Panel Mount Female

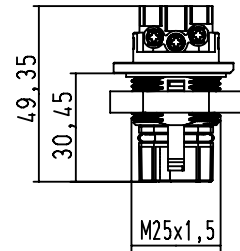
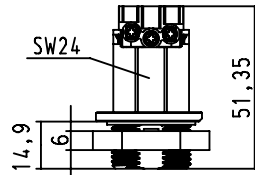
4 Pole Panel Mount Male

RST 20i4	Color	Cable Mount Female	Cable Mount Male
		with screw connection	
4 Pole	light gray	96.041.5053.0	96.042.5053.0
	black	96.041.5053.1	96.042.5053.1
	brown	96.041.5051.4	96.042.5051.4

Black and light gray have the same mechanical coding and can intermate.

# RST20i

Straight, standard M25 device connectors



5 Pole Panel Mount Female

5 Pole Panel Mount Male

RST 20i5	Color	Cable Mount Female	Cable Mount Male
with screw connection			
5 Pole	light gray	96.051.5053.0	96.052.5053.0
	black	96.051.5053.1	96.052.5053.1
	turquoise	96.051.5053.6	96.052.5053.6
	light blue	96.051.5053.9	96.052.5053.9
	brown	96.051.5051.4	96.052.5051.4

## Heavy Duty Connectors

The **RST**<sup>®</sup> CLASSIC is also available in a heavy duty housing with a secondary locking mechanism for added protection in the most demanding environments.

For detailed information and to obtain the part numbers visit:

<http://www.wieland-electric.ca/en-ca/products/circular-connector-system>



## Hazardous Location Connectors

The **RST**<sup>®</sup> CLASSIC is now available with hazardous location approved housing for both cable and panel mounting options. Also available with NPT thread.

For detailed information and to obtain the part numbers for the components with certification for use in Class 1 Division 2 environments visit:

<http://www.wieland-electric.ca/en-ca/products/circular-connector-system>



## 6- and 7-pole Connectors

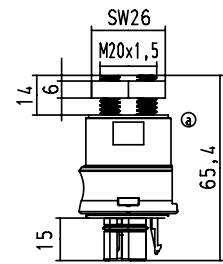
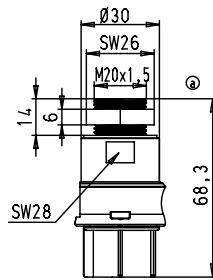
Wieland Electric continues to expand the **RST**<sup>®</sup> product range with a 6- and 7-pole variant for the first time. The compact connectors will have a  $cUL_{US}$  rating of up to 600V, 20A, and a protection rating of Type 4x and Type 6p\*. Connectors are available in straight or angled versions, as well as for all common cable diameters. Contact your Wieland representative to find out more.

\*UL approvals pending.



# RST20i

Straight, standard M20 device connectors

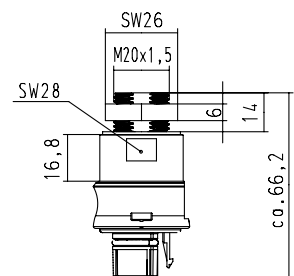
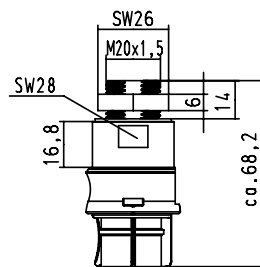


2/3 Pole Panel Mount Female

2/3 Pole Panel Mount Male

RST 20i2	Color	Cable Mount Female	Cable Mount Male	Cable Mount Female	Cable Mount Male
		with screw connection		with spring clamp connection	
2 Pole	light gray	96.021.6053.0	96.022.6053.0	96.021.2053.0	96.022.2053.0
	black	96.021.6053.1	96.022.6053.1	96.021.2053.1	96.022.2053.1
	brown	96.021.6051.4	96.022.6050.8	96.021.2051.4	96.022.2051.4
	pebble gray	96.021.6050.8	96.022.6051.4		

RST 20i3	Color	Cable Mount Female	Cable Mount Male	Cable Mount Female	Cable Mount Male
		with screw connection		with spring clamp connection	
3 Pole	light gray	96.031.6053.0	96.032.6053.0	96.031.2053.0	96.032.2053.0
	black	96.031.6053.1	96.032.6053.1	96.031.2053.1	96.032.2053.1
	green	96.031.6055.7	96.032.6055.7	96.031.2055.7	96.032.2055.7
	light blue	96.031.6053.9	96.032.6053.9	96.031.2053.9	96.032.2053.9
	brown	96.031.6051.4	96.032.6051.4	96.031.2051.4	96.032.2051.4



4 Pole Panel Mount Female

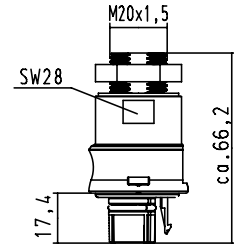
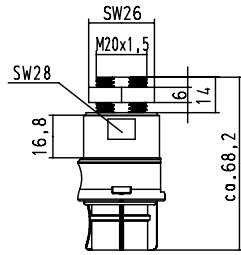
4 Pole Panel Mount Male

RST 20i4	Color	Cable Mount Female	Cable Mount Male
		with screw connection	
4 Pole	light gray	96.041.6053.0	96.042.6053.0
	black	96.041.6053.1	96.042.6053.1
	brown	96.041.6051.4	96.042.6051.4

Also available with NPT thread.

# RST20i

Straight, standard M20 device connectors



5 Pole Panel Mount Female

5 Pole Panel Mount Male

RST 20i5	Color	Cable Mount Female	Cable Mount Male
		with screw connection	
5 Pole	light gray	96.051.6053.0	96.052.6053.0
	black	96.051.6053.1	96.052.6053.1
	turquoise	96.051.6053.6	96.052.6053.6
	light blue	96.051.6053.9	96.052.6053.9
	brown	96.051.6051.4	96.052.6051.4

## Accessories

### Cover Caps



2/3 Pole Female Cover



2/3 Pole Male Cover



4/5 Pole Female Cover

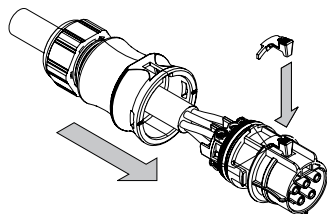


4/5 Pole Male Cover

RST20i	Color	For female	For male
		with stainless steel tether cord	
2/3 Pole	black	99.414.6205.2	99.416.6205.2
	light gray	99.413.6205.2	99.415.6205.2

RST20i	Color	For female	For male
		with stainless steel tether cord	
4/5 Pole	black	99.530.0000.7	99.532.0000.7
	light gray	99.529.0000.7	99.531.0000.7

## Manual disconnect tools



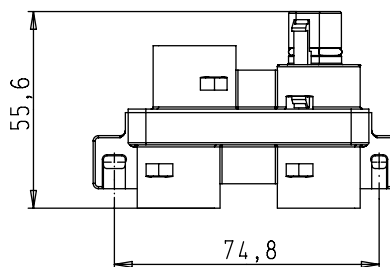
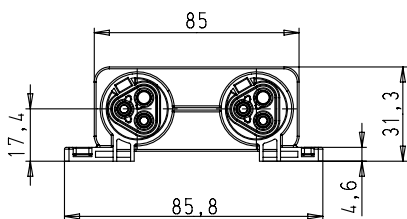
For female connectors

RST20i	Color	For female connectors
All Poles	black	05.564.8653.1
	concrete gray	05.564.8653.3
	green	05.564.8653.7



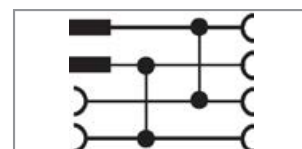
# Distribution Block

## 1I/3O parallel connection for protection class II

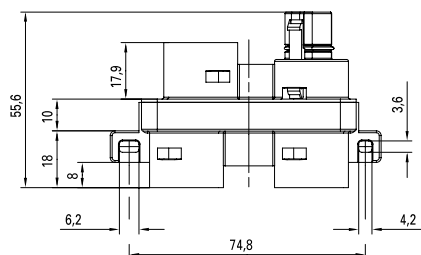
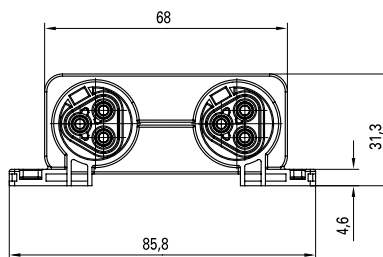


### 2 Pole with fastening option

RST 20i2	Color	Input	Output	Part no.	Part no.
				with fastening option	without fastening option
2 Pole	black	1	3	96.020.0153.1	96.020.0253.1
	light gray	1	3	96.020.0153.0	96.020.0253.0
	pebble gray	1	3	96.020.0150.8	96.020.0250.8
	brown	1	3	96.020.0151.4	96.020.0251.4

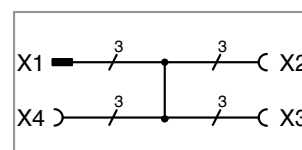


Circuit diagram



### 3 Pole with fastening option

RST 20i3	Color	Input	Output	Part no.	Part no.
				with fastening option	without fastening option
3 Pole	black	1	3	96.030.0153.1	96.030.0253.1
	light gray	1	3	96.030.0153.0	96.030.0253.0
	green	1	3	96.030.0155.7	96.030.0255.7
	brown	1	3	96.030.0151.4	96.030.0251.4



Circuit diagram

# Distribution Units



## 2/3 Pole distribution units

RST 20i2	Color	Input	Output	Part no.
2 Pole	■ black	1	2	99.942.0000.0
	■ light gray	1	3	99.990.0000.7
	■ black	1	3	Upon Request
	■ brown	1	7	99.946.0000.7
	■ black	1	7	99.988.0000.7

RST 20i3	Color	Input	Output	Part no.
3 Pole	■ black	1	3	99.906.0000.7
	■ black	1	7	99.929.0000.7



## 4/5 Pole distribution units

RST 20i4	Color	Input	Output	Part no.
4 Pole	■ black	1	3	99.911.0000.7
	■ black	1	4	99.935.0000.7
	■ black	1	5	99.916.0000.7
	■ black	1	7	99.936.0000.7

RST 20i5	Color	Input	Output	Part no.
5 Pole	■ light gray	1	3	Upon Request
	■ black	1	3	96.050.0153.1
	■ black	1	5	96.050.2153.1
	■ black	1	7	Upon Request

# **RST**<sup>®</sup> POWER

## Solutions for the most demanding requirements

The **RST**<sup>®</sup>POWER series combines the most powerful connection capabilities with the highest possible degree of compactness. The connectors are available in 4 and 5 poles and are designed for 600V and a maximum current of 53A, with NEMA 6P and IPK69K rating. Available in both cable and device connectors, the **RST**<sup>®</sup>POWER can take wire ranges of up to 32 mm.

Using the same **plug & play** technology incumbent in the **RST**<sup>®</sup> series, these connector offer the same easy and safe installation benefits.



### **Easy Assembly**

The connector housing is designed in two parts to allow for easy assembly, saving you valuable installation time.

Use the QR to download installation instructions for the **RST**<sup>®</sup>POWER at:

[www.eshop.wieland-electric.com](http://www.eshop.wieland-electric.com)



# RST50i

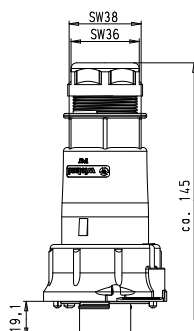
## Straight cable connectors



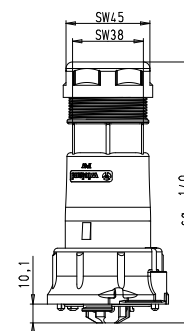
	4/5 Pole	
	IEC	CSA <sub>US</sub>
Cable Ø	15 - 32 mm	
Voltage	250/400 V	600 V
Current	50 A	53 A
Wire Size	4 - 16 mm <sup>2</sup>	12-6 AWG
Environment Rating	IP69K	NEMA 6P







4/5 Pole Cable Mount Female with 15-25mm cable gland



4/5 Pole Cable Mount Male with 20-32mm cable gland

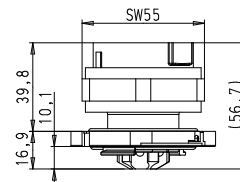
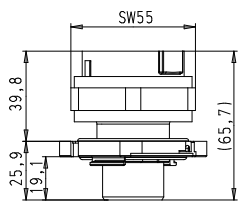


RST 50i4	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male
			with screw connection	
4 Pole	 black	15-25	97.041.4053.1	97.042.4053.1
	 black	20-32	97.041.4253.1	97.042.4253.1

RST 50i5	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male
			with screw connection	
5 Pole	 black	15-25	97.051.4053.1	97.052.4053.1
	 black	20-32	97.051.4253.1	97.052.4253.1



# RST50i



## Straight M32 device connectors



4/5 Pole Cable Mount Female

4/5 Pole Cable Mount Male

RST 50i4	Color	Fixation with bolts	Cable Mount Female	Cable Mount Male
with screw connection				
4 Pole		black fixed	97.041.5553.1	97.042.5553.1
		black not fixed	97.041.5053.1	97.042.5053.1


RST 50i5	Color	Cable Diameter (mm)	Cable Mount Female	Cable Mount Male
with screw connection				
5 Pole		black fixed	97.051.5553.1	97.052.5553.1
		black not fixed	97.051.5053.1	97.052.5053.1

## Accessories

### Cover caps



RST50i Cover Cap

RST50i	Color	Part no.
	black	Z5.567.5653.0

# Cable Glands

## Affordable sealing technology for outdoor applications

Cable glands and ventilation glands & plugs are the newest addition to the Wieland outdoor lighting offering. Cable glands and fittings provide strain relief for cables and high protection against dirt, dust, water and other liquids for electric and electronic systems, up to IP 68/ 4X.

Ventilation Glands & Plugs, also known as Pressure Balance Elements (PBEs), balance the pressure difference between inside and outside of an enclosure. At the same time, these devices provide a high degree of protection of up to IP 67/ 4X. This prevents corrosion and water condensation inside the enclosure and extends the lifetime of the entire system.

Uniquely, Wieland carries a snap-in version cable gland which is ideal for device mounted cables.



### Benefits at a glance

- High IP rating with gas permeability
- Snap-in technology for device mounting
- Perfect fit with a range of sizes in metric and PG
- Temperature range of -20 °C to +100 °C and UV protection

### More Information

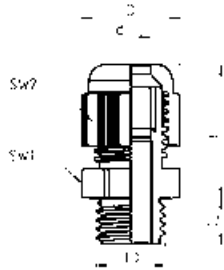
For detailed data sheets and additional information visit the Wieland ecatalog site:

[www.eshop.wieland-electric.com](http://www.eshop.wieland-electric.com)



# Plastic Cable Glands

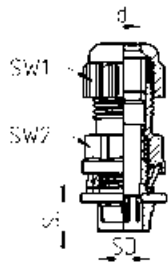
## Plastic Cable Gland, Metric



Technical Data	
Approvals	VDE / UL / CSA
Material	Polyamide 6
Seal	Chloroprene Rubber
Environment	IP 66 / 68 (5 bar, 30 min.), 4X
Flamability	UL 94 V-2
Temperature	-20 °C to +100 °C

Thread Size	Cable range (mm)	D (mm)	H (mm)	TL (mm)	SW1 (mm)	SW2 (mm)	part no.	VDE	UL	CSA
M12	3-6	16.9	23	8	15	15	Z5.503.0053.0	✓	✓	✓
M16	2-6	21.9	26.5	8	19	19	Z5.503.0153.0		✓	✓
	4-8	21.9	26.5	8	19	19	Z5.503.0353.0	✓	✓	✓
M20	5-10	25	30	10	22	22	Z5.503.0253.0	✓	✓	✓
	6-12	27	30	10	24	24	Z5.503.0453.0	✓	✓	✓
M25	10-14	31	33.5	10	27	27	Z5.503.0553.0	✓	✓	✓
	13-18	38	38	10	33	33	Z5.503.0753.0	✓	✓	✓
M32	18-25	47.3	45	15	42	42	Z5.503.0853.0	✓	✓	✓

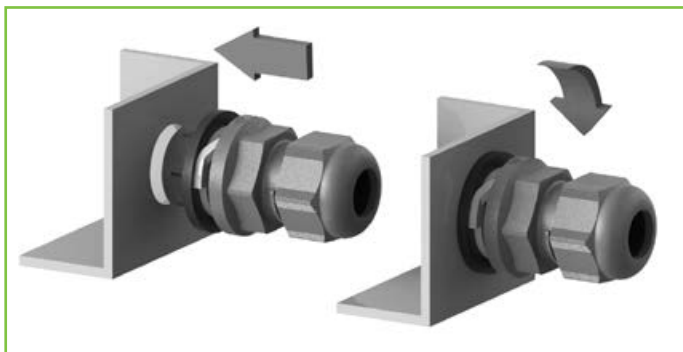
## Plastic Snap-in Cable Gland



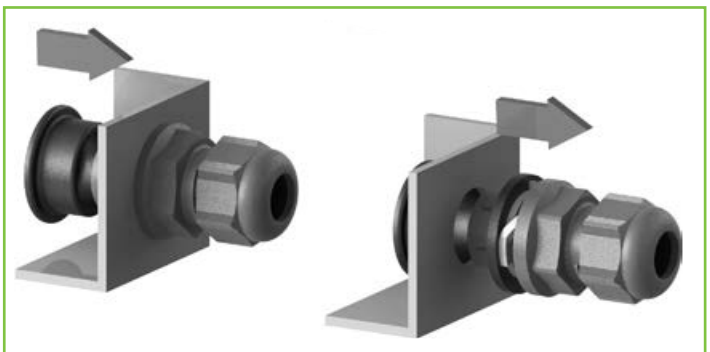
Technical Data	
Approvals	VDE
Material	Polyamide 6
Seal	Chloroprene Rubber
Environment	IP 66 / 68 (5 bar, 30 min.)
Flamability	UL 94 V-2
Temperature	-20 °C to +100 °C

Thread Size	Cable range (mm)	SD (mm)	SL (mm)	D (mm)	H (mm)	SW1 (mm)	SW2 (mm)	part no.	VDE
16.2-16.4	5-10	15.9	9	26.5	42.5	22	22	Z5.504.4053.3	✓
20.2-20.4	6-12	19.9	9	30.3	41.5	24	24	Z5.504.4153.3	✓

### Installation



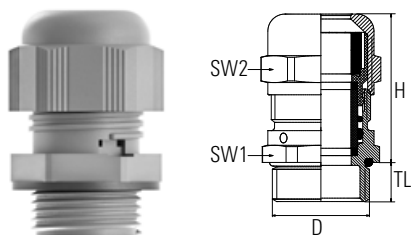
### Removal



Additional sizes available upon request.

# Plastic Ventilation Glands & Plugs

## Plastic Ventilation Gland, Metric

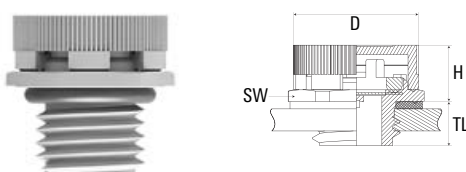


Technical Data	
Approvals	VDE / UR / CSA
Material	Polyamide 6
Seal	Chloroprene Rubber
Vent membrane	PTFE
Environment	IP 66 / 67; 4X
Flamability	UL 94 V-2
Temperature	-20 °C to +100 °C

Thread Size	Cable range (mm)	D (mm)	H (mm)	TL (mm)	SW1 (mm)	SW2 (mm)	Avg. air flow (l/h)	part no.	VDE	UL	CSA
M12	2-6	21.9	25.5	8	19	19	25	Please contact Wieland for part numbers	✓	✓	✓
	4-8	21.9	25.5	8	19	19	25		✓	✓	✓
M16	2-6	21.9	25.5	8	19	19	25		✓	✓	✓
	4-8	21.9	25.5	8	19	19	25		✓	✓	✓
M20	5-9	27	30	10	24	24	40		✓	✓	✓
	6-12	27	30	10	24	24	40		✓	✓	✓

ΔP = 70 mbar

## Plastic Ventilation Plug, M12



Technical Data	
Material	Polyamide 6
Membrane	Acrylic co-polymer on nylon-support
Environment	IP 68 / 67 (for water intrusion pressure 0.1 bar); 4X
Flamability	UL 94 V-2
Temperature	-20 °C to +100 °C

Thread Size	D (mm)	H (mm)	TL (mm)	SW1 (mm)	Avg. air flow (l/h)	part no.	UR
M12	18.5	7.6	6	17	16	Please contact Wieland for part numbers	✓
	18.5	7.6	10	17	16		✓
	18.5	7.6	6	17	25		✓
	18.5	7.6	10	17	25		✓
	18.5	7.6	6	17	120		✓
	18.5	7.6	10	17	120		✓
	18.5	7.6	6	17	300		✓
M40	55.3	15.5	18	-	120	✓	
	55.3	15.5	18	-	375	✓	
	55.3	15.5	18	-	1250	✓	
	55.3	15.5	18	-	2200	✓	

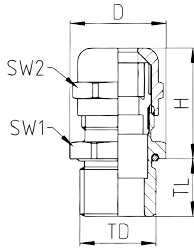
ΔP = 70 mbar

Additional sizes available upon request.



# Brass Cable Glands

## Brass Cable Gland, Metric

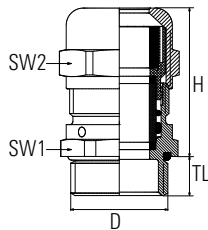


Technical Data	
Approvals	VDE / UL
Material / Insert	Brass, nickel plated / Polyamide 6
Seal / O-ring	Chloroprene Rubber / NBR
Environment	IP 66 / 68 (5 bar, 30 min.), 4X
Flamability	UL 94 V-2
Temperature	-20 °C to +100 °C

Thread Size	Cable range (mm)	D (mm)	H (mm)	TL (mm)	SW1 (mm)	SW2 (mm)	part no.	VDE	UL
M12	3-6.5	15.5	22	12	14	14	Z5.503.4221.0	✓	✓
M16	4-8	20	23	7	18	17	Z5.503.2121.0	✓	✓
	5-10	22	28.5	12	20	20	Z5.503.4421.0	✓	✓
M20	6-12	24.5	26	12	22	22	Z5.503.4621.0	✓	✓
M25	10-14	29.8	28	8	27	24	Z5.503.2721.0	✓	✓
	13-18	33	32.5	8	30	30	Z5.503.2921.0	✓	✓
M32	13-18	37.5	33	8	34	30	Z5.503.3121.0	✓	✓
	15-21	37	36.2	15	34	34	Z5.503.5021.0	✓	✓
M40	19-28	48.4	43.5	15	43	43	Z5.503.5221.0	✓	✓
M50	27-38	64	52	15	58	58	Z5.503.5421.0	✓	✓

# Brass Ventilation Glands

## Brass Ventilation Gland

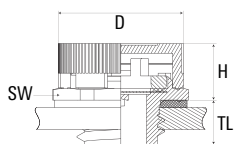


Technical Data	
Approvals	VDE / UL
Material / Insert	Brass, nickel plated / Polyamide 6
Seal / O-ring	Chloroprene Rubber / NBR
Vent Membrane	PTFE
Environment	IP 66 / 67; 4X
Flamability	UL 94 V-2
Temperature	-20 °C to +100 °C

Thread Size	Cable range (mm)	D (mm)	H (mm)	TL (mm)	SW1 (mm)	SW2 (mm)	part no.	VDE	UL
M12	4-8	18.9	30.5	6	17	17	Please contact Wieland for part numbers	✓	✓
M16	3-7	18.9	27	5	17	17		✓	✓
	5-10	22	33.5	8	20	20		✓	✓
M20	6-12	24.5	29.5	8	22	22		✓	✓
PG7	4-8	18.9	30.5	8	17	17		✓	✓
PG9	4-8	18.9	27	6	17	17		✓	✓
PG11	5-10	22	33.5	8	20	20		✓	✓
PG13.5	6-12	24.5	29.5	6.5	22	22		✓	✓

# Brass Ventilation Plugs

## Metal Ventilation Plug, M12 / PG7



Technical Data	
Approvals	UR
Material	Stainless steel / aluminum
O-ring	NBR
Environment	IP 68 / IP 67 (for water intrusion pressure 0.1 bar), 4X
Temperature	-20 °C to +100 °C

Thread Size	D (mm)	H (mm)	TL (mm)	SW1 (mm)	Avg. air flow (l/h)	part no.
M12	18.8	11	6	17	16	Please contact Wieland for part numbers
	18.8	11	10	17	16	
	18.8	11	6	17	25	
	18.8	11	10	17	25	
	18.8	11	6	17	120	
	18.8	11	10	17	120	
	18.8	11	6	17	300	
	18.8	11	10	17	300	
M40	58	20.7	10	-	120	
	58	20.7	10	-	375	
	58	20.7	10	-	1350	
	58	20.7	10	-	2200	
PG7	18.8	11	10.5	17	16	
	18.8	11	10.5	17	25	
	18.8	11	10.5	17	120	
	18.8	11	10.5	17	300	

ΔP = 70 mbar

# Wieland at a glance

Our range of products and services for your industry



## Product Portfolio

- Electronic and electrical engineering for the control cabinet
- Safety technology
- Network and fieldbus systems
- Energy bus systems for industry and buildings
- Connectors up to protection rating IP6X
- Building automation
- PCB terminals and plug connectors
- Sensor/actuator cabling



## Industries

- Machine building
- Construction machines & cranes
- Buildings and lighting
- Logistics
- Power engineering
- Renewable energy sources
- Heating and air conditioning systems



## Value Added Services

- Pre-assembly and wiring
- Product labeling service
- Integrated solutions with distributors
- Customized solutions
- On-site project support
- Optimization for decentralized, pluggable installation solutions
- Certified machine safety tests



## Safety Training

- Software validation
- CSE Certified Safety Engineer
- Basic principles and standards of functional safety
- Modification of old machinery and major changes
- Design of safety functions and calculation with Sistema
- Machinery Directive, liability issues, and CE Declarations of Conformity



## Why Wieland?

- Standardized industrial solutions
- Customized solutions
- Support for your project
- Broad product portfolio
- Products usable worldwide due to international licenses
- Group-wide observance of human rights, including at suppliers
- Eco-friendly production

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## Industrial technology

### Solutions for the control cabinet

- DIN rail terminal blocks
  - Screw, tension spring or push-in connection technology
  - Wire cross sections up to 300 mm<sup>2</sup>
  - Numerous special functions
  - Software solutions interfacing to CAE systems
- Safety
  - Safe signal acquisition
  - Safety switching devices
  - Modular safety modules
  - Compact safety controllers
  - Application consulting and training
- Network engineering and fieldbus systems
  - Remote maintenance via VPN industrial router and VPN service portal
  - Industrial Ethernet switches
  - PLC and I/O systems, standard and increased environmental conditions
- Interface
  - Power supply units
  - Overvoltage protection
  - Coupling relays, semiconductor switches
  - Timer relays, measuring and monitoring relays
  - Analog coupling and converter modules
  - Passive interfaces

### Solutions for field applications

- Decentralized installation and automation technology
  - Electrical installation for wind tower
  - Fieldbus interfaces and motor starters
- Connectors for industrial applications
  - Rectangular and round connectors
  - Aluminum or plastic housings
  - Degree of protection up to IP69
  - 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: 2.5 mm to 10.16 mm
- Reflow or wave soldering process

## Building and installation technology

- Building installation systems
  - Main power supply connectors IP20/IP65...IP69
  - Bus connectors
  - Low-voltage connectors
  - Power distribution system with flat cables
  - Distribution systems
  - Room automation with KNX, EnOcean, SMI and DALI
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection