gesis® RST®

wieland

gesis® RST® MINI

Smallest pluggable installation connector
with highest IP rating

RST®MINI connectors

Table of contents

Overview of the RST® product family

Pluggable in many dimensions

Since its market launch the **RST®** installation system has systematically grown with the needs of the market and now presents itself as a complete electrical installation system. A choice can be made between three series as required:

NEW

RST® MINI

RST MINI Little connectors for extremely confined spaces
2- to 5-pole design,
250V/400V, 16A

RST® CLASSIC

All-rounders with the most comprehensive portfolio
2- to 5-pole design,
250/400V, 20 – 32A

RST® POWER

High-current connectors for large cross-sections
4- and 5-pole design,
250/400V, 50A

Further information can be found in the catalogue with order no. 0690.1 or in our service/download section at www.wieland-electric.com

All installation connectors have one thing in common: They are innately fitter-friendly and adhere strictly to the system philosophy. Complex installations can be built flexibly, and consumers can simply be plugged into the installation. Mechanical codings within the product lines ensure a clear distinction between different circuits. This practically rules out incorrect connections.

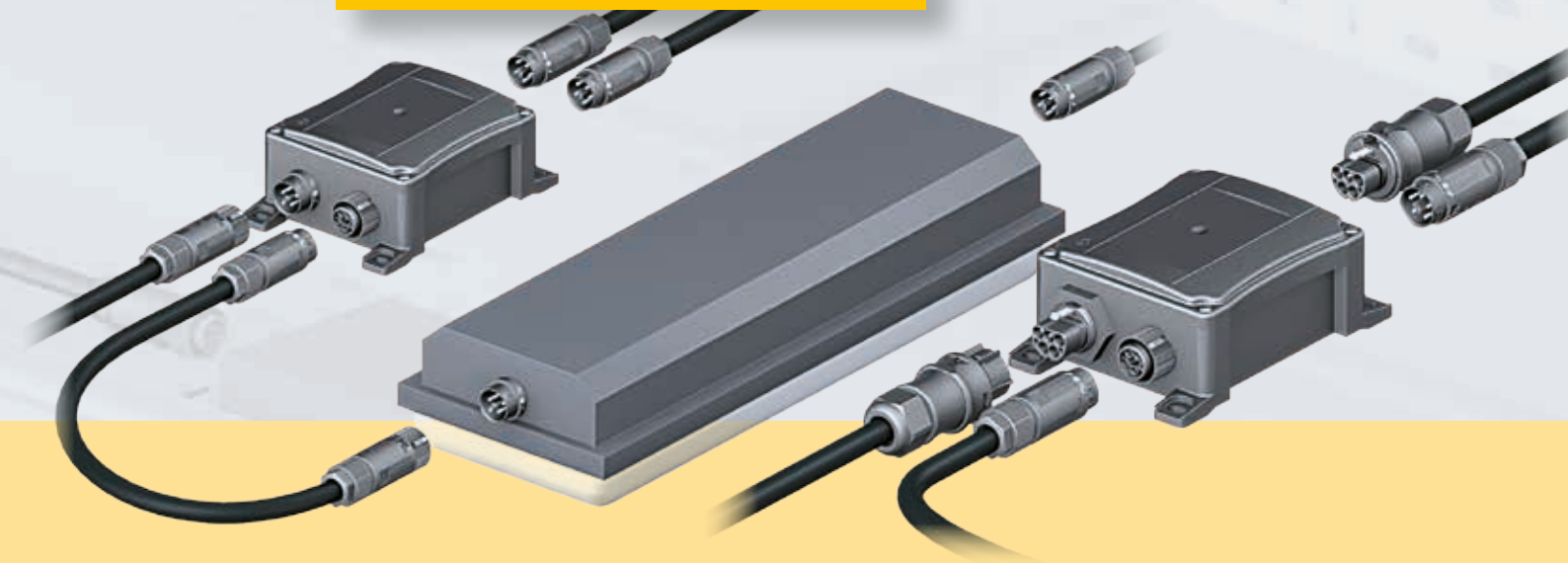
The new RST® MINI connector series

Optimized for installation in confined spaces

The new **RST®** MINI series marks a continuation of the story of the **RST®** installation system's success and logically follows the trend towards compact designs.
The 2 to 5 pole plug connectors and device connectors have been designed for 250/400V and 16A and are all available in the screw connection technology that electricians trust.
Customized distributors as well as pre-assembled cables round the system off perfectly and offer a huge range of different possible uses, not just in building automation or industry.

Benefits at a glance

- **TWISTLOCK technology**
- **Compact design**
- **Color-coded and mechanically coded**
- **Easy to install**
- **Save up to 80% of installation time**

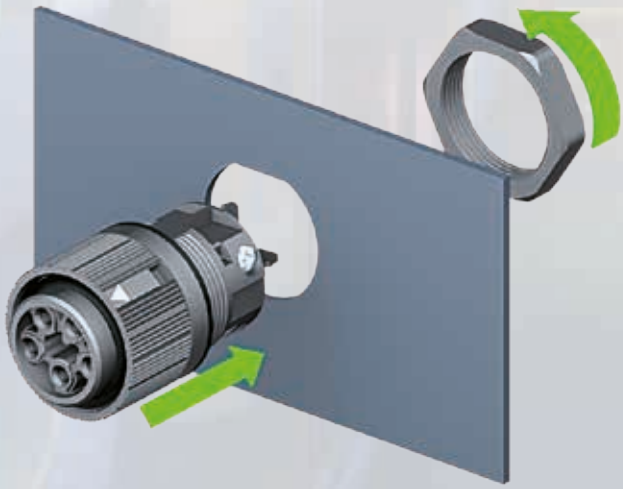


RST® MINI plug & play

Simple and functional

Easy assembly

The housing of the connector has been designed in two parts and geared toward simple assembly right from the outset. The connector dispenses with the common technique of screwing individual parts and relies on an easy-to-use quick fastener.



Retrofitting made easy

The device connectors have M20.2 (5/4 pole) or M16 (3/2 pole) threads. This means they can be directly integrated in M20 or M16 housing feed-throughs – taking the tolerances into account. It is therefore easy to switch from traditional cable glands to the convenient pluggable alternative. There is the option of using a flattened top on the thread of the device connector to fix it in position.

Safe and secure

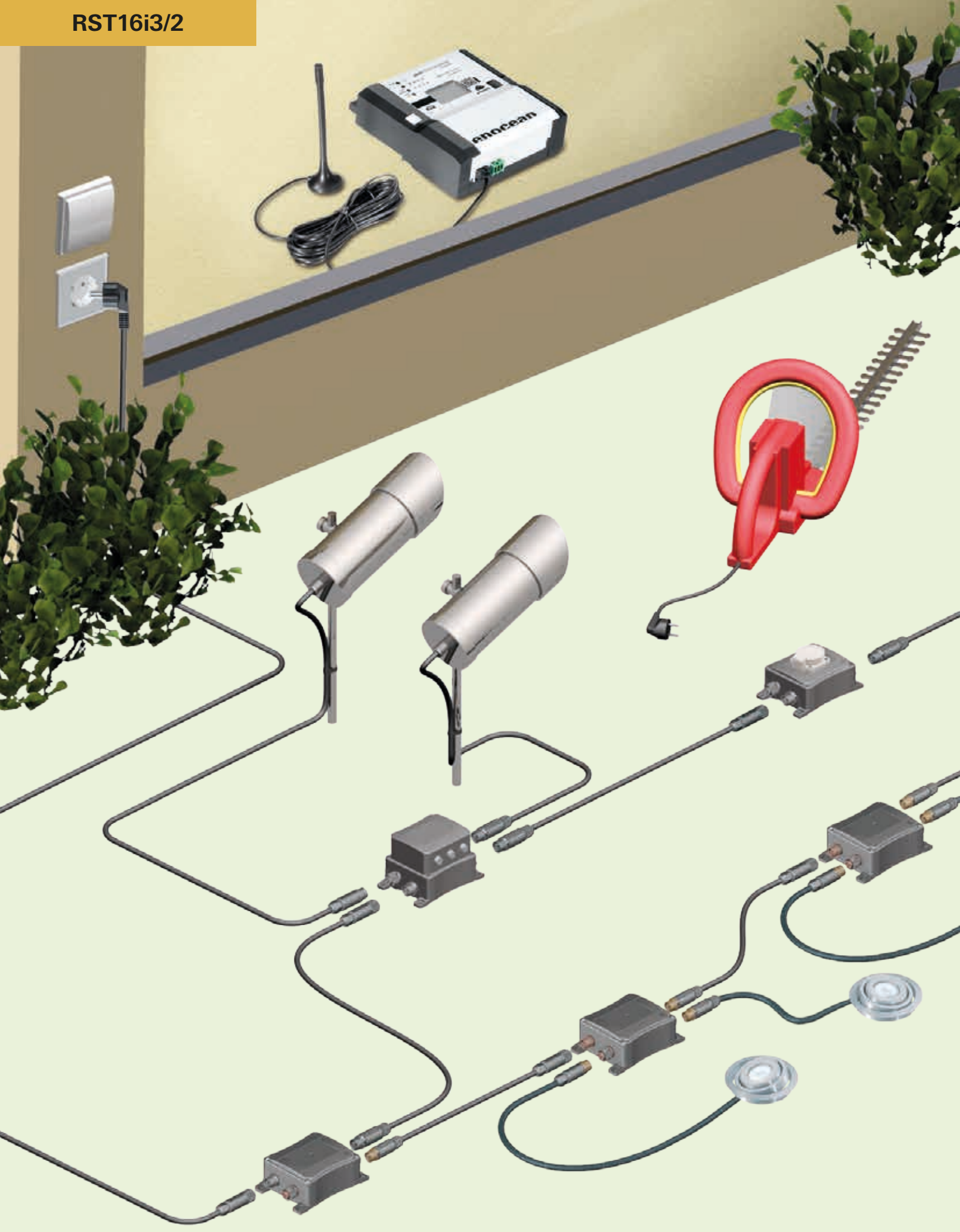
Unused slots must be protected against moisture and dirt penetration. The end caps for unused slots are joined to the connector directly using a strap and are therefore protected against loss.

TWISTLOCK technology

With the smart TWISTLOCK locking mechanism, the connectors lock automatically when plugged together and give the user clear feedback on the correct end position. A slight rotation severs the connection easily.

SAFE-LOCK – more safety

For any application that requires a tool to be used to loosen the connection, there is the so-called Safe-Lock position.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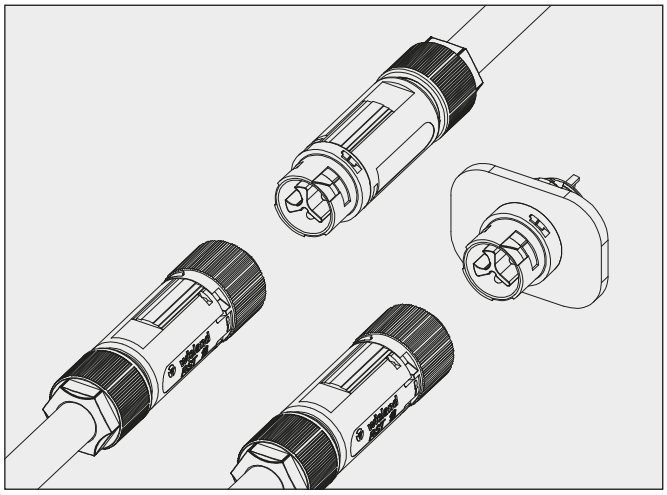
The RST16i3/2 product line –mains connection, lighting installation, DALI, DMX, applications in the extra-low voltage range (LED technology), loudspeaker applications

Application example



General

The 3 pole connectors have five available codings. These cover applications relating to the mains connection of electrical consumers, the connection of LED luminaires in the extra-low voltage range, and also the electrification of DALI, DMX, or loudspeaker systems. The main focus is the mains connection of electrical equipment with a compact design.
The mechanical codings have the advantage that only associated pairs of male and female connectors can be connected, with the correct polarity ensured. This gives you the security of a clear distinction.

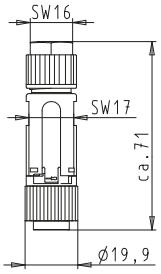
The connectors are also available in a 2 pole variant. This is based on the 3 pole housing, but with one pole not configured.

Coding

	Application	Mains/SKII		250/400V with PE	Extra-low voltage	up to 400V without PE	Dimming
	Mechanical coding, e.g.	L, N, PE		1, 2, PE	1, 2, 3	1, 2, 3	D1, D2, PE
Name	**Description**	black	light gray	leaf green	signal brown	light blue	turquoise
Connectors		✓	✓	✓	✓	✓	✓
M16 device connectors		✓	✓	✓	✓	✓	✓
Distributors	RST® compact and multiple distributors	✓	✓	✓	✓	✓	✓
	Individual distribution box	Upon request	Upon request	Upon request	Upon request	Upon request	Upon request
Cable assemblies	Device connector cable Male – free end	✓	✓	Upon request	Upon request	Upon request	Upon request
	Connection cable Female – free end	✓	✓	Upon request	Upon request	Upon request	Upon request
	Extension cable Female – male	✓	✓	Upon request	Upon request	Upon request	Upon request

Connectors for Ø 5.0 – 9.5 mm[2)] cables

Female connector

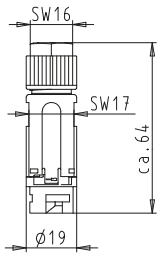


Rated values

Rated voltage	400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm² (up to 1.0 mm² suitable for ferrules)
Approvals	VDE, UL and CSA being prepared

Application	Coding	Pole marking	Color	Part No.
				with screw connection
Mains		L, N, PE	black light gray	46.031.4553.1 46.031.4553.0
SKII		L, N	black light gray	46.031.4554.1 46.031.4554.0
250/400V with PE		1, 2, PE	leaf green	46.031.4555.7
up to 400V without PE		1, 2, 3	light blue	46.031.4553.9
up to 400V without PE[1)]		1, 2	light blue	46.031.4554.9
Dimming with PE		D1, D2, PE	turquoise	46.031.4550.6
Dimming[1)]		D1, D2	turquoise	46.031.4551.6
Extra-low voltage (60V~120V-)		1, 2, 3	signal brown	46.031.4550.4
Extra-low voltage[1)] (60V~120V-)		1, 2	signal brown	46.031.4551.4

Male connector



Rated values

Rated voltage	400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm² (up to 1.0 mm² suitable for ferrules)
Approvals	VDE, UL and CSA being prepared

Application	Coding	Pole marking	Color	Part No.
				with screw connection
Mains		L, N, PE	black light gray	46.032.4553.1 46.032.4553.0
SKII		L, N	black light gray	46.032.4554.1 46.032.4554.0
250/400V with PE		1, 2, PE	leaf green	46.032.4555.7
up to 400V without PE		1, 2, 3	light blue	46.032.4553.9
up to 400V without PE[1)]		1, 2	light blue	46.032.4554.9
Dimming with PE		D1, D2, PE	turquoise	46.032.4550.6
Dimming[1)]		D1, D2	turquoise	46.032.4551.6
Extra-low voltage (60V~120V-)		1, 2, 3	signal brown	46.032.4550.4
Extra-low voltage[1)] (60V~120V-)		1, 2	signal brown	46.032.4551.4

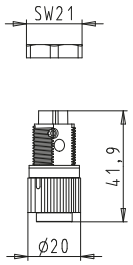
[1)] One pole not configured (Observe installation instructions!)

[2)] Other diameters available upon request

M16 device connectors

Female connector

For housing cut-out see Technical Data



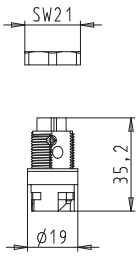
Rated values

Rated voltage	400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm² (up to 1.0 mm² suitable for ferrules)
Approvals	VDE, UL and CSA being prepared
Wall thicknesses	up to 8 mm

Application	Coding	Pole marking	Color	Part No.
				with screw connection
Mains		L, N, PE	black light gray	46.031.5053.1 46.031.5053.0
SKII		L, N	black light gray	46.031.5054.1 46.031.5054.0
250/400V with PE		1, 2, PE	leaf green	46.031.5055.7
up to 400V without PE		1, 2, 3	light blue	46.031.5053.9
up to 400V without PE[1)]		1, 2	light blue	46.031.5054.9
Dimming with PE		D1, D2, PE	turquoise	46.031.5050.6
Dimming[1)]		D1, D2	turquoise	46.031.5051.6
Extra-low voltage (60V~120V-)		1, 2, 3	signal brown	46.031.5050.4
Extra-low voltage[1)] (60V~120V-)		1, 2	signal brown	46.031.5051.4

Male connector

For housing cut-out see Technical Data



Rated values

Rated voltage	400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm² (up to 1.0 mm² suitable for ferrules)
Approvals	VDE, UL and CSA being prepared
Wall thicknesses	up to 8 mm

Application	Coding	Pole marking	Color	Part No.
				with screw connection
Mains		L, N, PE	black light gray	46.032.5053.1 46.032.5053.0
SKII		L, N	black light gray	46.032.5054.1 46.032.5054.0
250/400V with PE		1, 2, PE	leaf green	46.032.5055.7
up to 400V without PE		1, 2, 3	light blue	46.032.5053.9
up to 400V without PE[1)]		1, 2	light blue	46.032.5054.9
Dimming with PE		D1, D2, PE	turquoise	46.032.5050.6
Dimming [1)]		D1, D2	turquoise	46.032.5051.6
Extra-low voltage (60V~120V-)		1, 2, 3	signal brown	46.032.5050.4
Extra-low voltage[1)] (60V~120V-)		1, 2	signal brown	46.032.5051.4

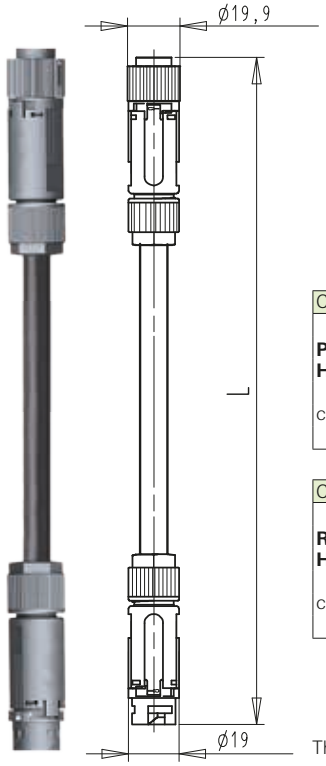
[1)] One pole not configured (Observe installation instructions!)

Cable assemblies 1.5 mm², 16 A

Rated values

Wire ends	ultrason. welded
Sheath strip length	35 mm
Wire strip length	9 mm

Connection cables female – male

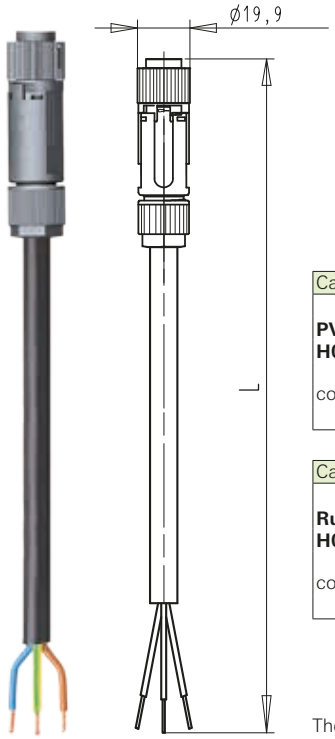


Cable	Length m	Mains 250 V 3 pole	Protection class II 2 pole	Extra-low voltage 2 pole
		 	 	 
PVC cable H05VV-F containing halogen	0.5	46.432.0500.1	46.422.0500.1	46.422.0502.4
	1	46.432.1000.1	46.422.1000.1	46.422.1002.4
	2	46.432.2000.1	46.422.2000.1	46.422.2002.4
	3	46.432.3000.1	46.422.3000.1	46.422.3002.4
	4	46.432.4000.1	46.422.4000.1	46.422.4002.4
	5	46.432.5000.1	46.422.5000.1	46.422.5002.4

Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.432.0530.1	46.422.0530.1	46.422.0532.4
	1	46.432.1030.1	46.422.1030.1	46.422.1032.4
	2	46.432.2030.1	46.422.2030.1	46.422.2032.4
	3	46.432.3030.1	46.422.3030.1	46.422.3032.4
	4	46.432.4030.1	46.422.4030.1	46.422.4032.4
	5	46.432.5030.1	46.422.5030.1	46.422.5032.4

The 2 pole cables have one pole which is not configured.

Connection cables female – free end



Cable	Length m	Mains 250 V 3 pole	Protection class II 2 pole	Extra-low voltage 2 pole
		 	 	 
PVC cable H05VV-F containing halogen	0.5	46.432.0503.1	46.422.0503.1	46.422.0507.4
	1	46.432.1003.1	46.422.1003.1	46.422.1007.4
	2	46.432.2003.1	46.422.2003.1	46.422.2007.4
	3	46.432.3003.1	46.422.3003.1	46.422.3007.4
	4	46.432.4003.1	46.422.4003.1	46.422.4007.4
	5	46.432.5003.1	46.422.5003.1	46.422.5007.4

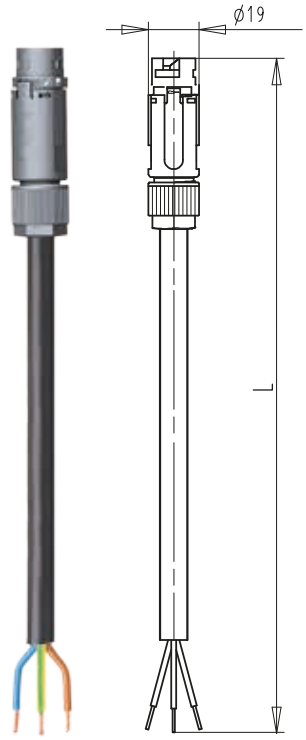
Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.432.0533.1	46.422.0533.1	46.422.0537.4
	1	46.432.1033.1	46.422.1033.1	46.422.1037.4
	2	46.432.2033.1	46.422.2033.1	46.422.2037.4
	3	46.432.3033.1	46.422.3033.1	46.422.3037.4
	4	46.432.4033.1	46.422.4033.1	46.422.4037.4
	5	46.432.5033.1	46.422.5033.1	46.422.5037.4

The 2 pole cables have one pole which is not configured.

Observe the installation instructions in the Technical Data that follow the product pages.
Other cables, other lengths, other codings upon request

Cable assemblies 1.5 mm², 16 A

Connection cables male – free end



		Mains 250 V 3 pole		Protection class II 2 pole		Extra-low voltage 2 pole	
							
Cable	Length m	Part No.		Part No.		Part No.	
PVC cable H05VV-F containing halogen	0.5	46.432.0504.1		46.422.0504.1		46.422.0508.4	
	1	46.432.1004.1		46.422.1004.1		46.422.1008.4	
	2	46.432.2004.1		46.422.2004.1		46.422.2008.4	
	3	46.432.3004.1		46.422.3004.1		46.422.3008.4	
	4	46.432.4004.1		46.422.4004.1		46.422.4008.4	
	5	46.432.5004.1		46.422.5004.1		46.422.5008.4	

Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.432.0534.1	46.422.0534.1	46.422.0538.4
	1	46.432.1034.1	46.422.1034.1	46.422.1038.4
	2	46.432.2034.1	46.422.2034.1	46.422.2038.4
	3	46.432.3034.1	46.422.3034.1	46.422.3038.4
	4	46.432.4034.1	46.422.4034.1	46.422.4038.4
	5	46.432.5034.1	46.422.5034.1	46.422.5038.4

The 2 pole cables have one pole which is not configured.

Observe the installation instructions in the Technical Data that follow the product pages.
Other cables, other lengths, other codings upon request

Distributors

RST compact distributor

Rated values

Dimensions (W x L x H)	104 x 162 x 57.2 mm
Input	1
Outputs	3
Pre-wired with	1.5 mm²
Mounting option	Yes

Application	Coding	Pole marking	Color	Part No.
Mains		L, N, PE	black light gray	46.030.0153.1 46.030.0153.0
SKII		L, N	black light gray	46.030.0154.1 46.030.0154.0
250/400V with PE		1, 2, PE	leaf green	46.030.0155.7
up to 400V without PE		1, 2, 3	light blue	46.030.0153.9
up to 400V without PE[1)]		1, 2	light blue	46.030.0154.9
Dimming with PE		D1, D2, PE	turquoise	46.030.0150.6
Dimming[1)]		D1, D2	turquoise	46.030.0151.6
Extra-low voltage (60V~120V-)		1, 2, 3	signal brown	46.030.0150.4
Extra-low voltage[1)] (60V~120V-)		1, 2	signal brown	46.030.0151.4

[1)] One pole not configured (Observe installation instructions!). For custom solutions, see chapter on Distributors!

Accessories, sample kit

Cover caps

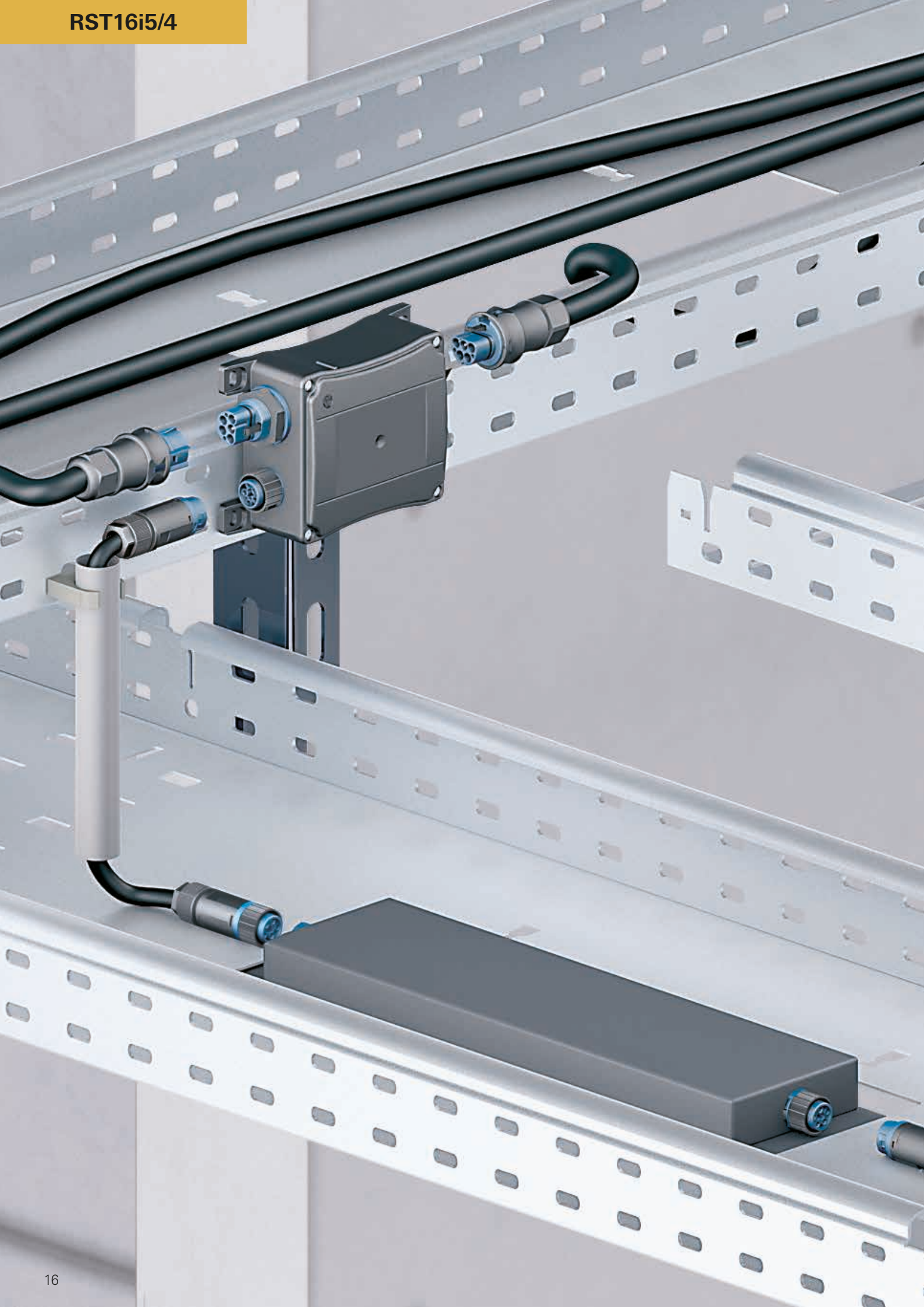
For the safe closure of female and male connectors.
With mounting strap for snapping onto plug connectors and device connectors

	Color	Part No.
Cover cap Male connector	black light gray	Z6.561.6953.1 Z6.561.6953.0
Cover cap Female connector	black light gray	Z6.561.7253.1 Z6.561.7253.0

Sample case RST16i3

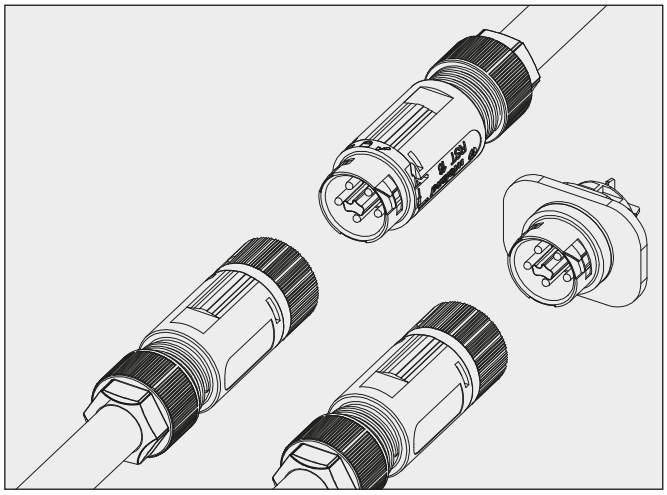
Part No.
99.674.0000.0

Contents:
Connectors
Device connectors
Contact parts in various codings
Cover caps



The RST16i5/4 product line – general network applications, lighting installation with dimming function, connection of electrical (sunblind) drives, applications in the extra-low voltage range (LED technology)

Application example



General

The **RST16i5/4** product line has a total of four mechanical codings and a wide variety of uses, from general network applications to applications in the extra-low voltage range. The main focus is the connection of dimmable luminaires with a compact design. This series is also tailored for the electrification of RGB or RGB-W/A outdoor spotlights. There are different mechanical codings available for every application. This means that only associated pairs of male and female connectors can be connected, with the correct polarity ensured. This gives you the security of a clear distinction.

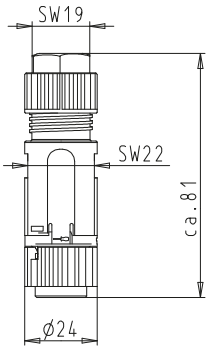
The codings are also available in a 4 pole variant. This is based on the 5 pole housing, but with one pole not configured.

Coding

	Application	Mains		Mains/signal	Extra-low voltage	up to 400V without PE
	Mechanical coding, e.g.	1, 2, 3, N, PE		L, N, PE, 1, 2	1, 2, 3, 4, 5	1, 2, 3, 4, 5
Name	**Description**	black	light gray	turquoise	signal brown	light blue
Connectors		✓	✓	✓	✓	✓
Device connectors M20.2		✓	✓	✓	✓	✓
Distributors	RST® compact and multiple distributors	✓	✓	✓	✓	✓
	Individual distribution box	Upon request	Upon request	Upon request	Upon request	Upon request
Cable assemblies	Device connector cable Male – free end	✓	Upon request	✓	Upon request	Upon request
	Connection cable Female – free end	✓	Upon request	✓	Upon request	Upon request
	Extension cable Female – male	✓	Upon request	✓	Upon request	Upon request

Connectors for Ø 7.1 – 13 mm[2)] cables

Female connector

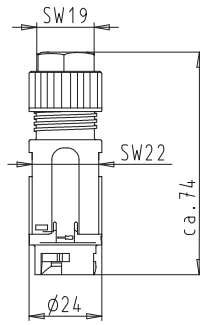


Rated values

Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm² (suitable for ferrules)
Approvals	VDE; UL and CSA being prepared

Application	Coding	Pole marking	Color	Part No.
				with screw connection
Mains		1, 2, 3, N, PE	black light gray	46.051.4553.1 46.051.4553.0
Motor connection[1)]		1, 2, 3, PE	black light gray	46.051.4554.1 46.051.4554.0
Mains/signal (e.g. dimming)		L, N, PE, 1, 2	turquoise	46.051.4553.6
up to 400V without PE		1, 2, 3, 4, 5	light blue	46.051.4553.9
Extra-low voltage (60V~/120V-)		1, 2, 3, 4, 5	signal brown	46.051.4550.4
Extra-low voltage[1)] (60V~/120V-)		1, 2, 3, 4	signal brown	46.051.4551.4

Male connector



Rated values

Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm² (suitable for ferrules)
Approvals	VDE; UL and CSA being prepared

Application	Coding	Pole marking	Color	Part No.
				with screw connection
Mains		1, 2, 3, N, PE	black light gray	46.052.4553.1 46.052.4553.0
Motor connection[1)]		1, 2, 3, PE	black light gray	46.052.4554.1 46.052.4554.0
Mains/signal (e.g. dimming)		L, N, PE, 1, 2	turquoise	46.052.4553.6
up to 400V without PE		1, 2, 3, 4, 5	light blue	46.052.4553.9
Extra-low voltage (60V~/120V-)		1, 2, 3, 4, 5	signal brown	46.052.4550.4
Extra-low voltage[1)] (60V~/120V-)		1, 2, 3, 4	signal brown	46.052.4551.4

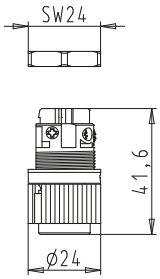
[1)] One pole not configured (Observe installation instructions!)

[2)] Other diameters available upon request

Device connectors M20.2

Female connector

For housing cut-out see Technical Data



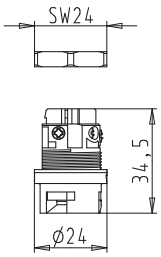
Rated values

Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 2.5 mm² (up to 1.5 mm² suitable for ferrules)
Approvals	VDE; UL and CSA being prepared
Wall thicknesses	up to 5 mm

Application	Coding	Pole marking	Color	Part No.
				with screw connection
Mains		1, 2, 3, N, PE	black light gray	46.051.5053.1 46.051.5053.0
Motor connection[1)]		1, 2, 3, PE	black light gray	46.051.5054.1 46.051.5054.0
Mains/signal (e.g. dimming)		L, N, PE, 1, 2	turquoise	46.051.5053.6
up to 400V without PE		1, 2, 3, 4, 5	light blue	46.051.5053.9
Extra-low voltage (60V~/120V-)		1, 2, 3, 4, 5	signal brown	46.051.5050.4
Extra-low voltage[1)] (60V~/120V-)		1, 2, 3, 4	signal brown	46.051.5051.4

Male connector

For housing cut-out see Technical Data



Rated values

Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 2.5 mm² (up to 1.5 mm² suitable for ferrules)
Approvals	VDE; UL and CSA being prepared
Wall thicknesses	up to 5 mm

Application	Coding	Pole marking	Color	Part No.
				with screw connection
Mains		1, 2, 3, N, PE	black light gray	46.052.5053.1 46.052.5053.0
Motor connection[1)]		1, 2, 3, PE	black light gray	46.052.5054.1 46.052.5054.0
Mains/signal (e.g. dimming)		L, N, PE, 1, 2	turquoise	46.052.5053.6
up to 400V without PE		1, 2, 3, 4, 5	light blue	46.052.5053.9
Extra-low voltage (60V~/120V-)		1, 2, 3, 4, 5	signal brown	46.052.5050.4
Extra-low voltage[1)] (60V~/120V-)		1, 2, 3, 4	signal brown	46.052.5051.4

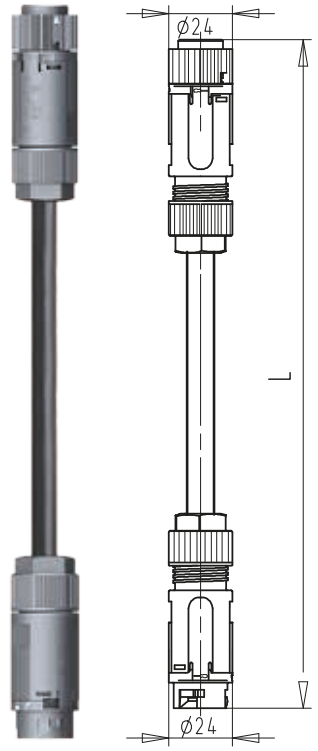
[1)] One pole not configured (Observe installation instructions!)

Cable assemblies 1.5 mm², 16 A

Rated values

Wire ends	ultrason. welded
Sheath strip length	35 mm
Wire strip length	9 mm

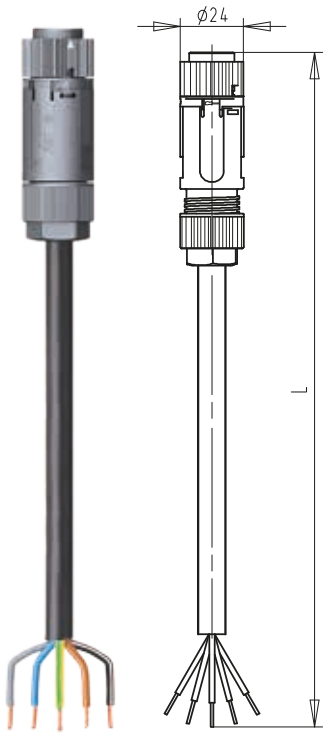
Connection cables female – male



Cable	Length m	Mains 250 V 5 pole Part No.	Mains/signal 5 pole Part No.
PVC cable H05VV-F containing halogen	0.5	46.452.0500.1	46.452.0500.6
	1	46.452.1000.1	46.452.1000.6
	2	46.452.2000.1	46.452.2000.6
	3	46.452.3000.1	46.452.3000.6
	4	46.452.4000.1	46.452.4000.6
	5	46.452.5000.1	46.452.5000.6

Cable	Length m	Mains 250 V 5 pole Part No.	Mains/signal 5 pole Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.452.0530.1	46.452.0530.6
	1	46.452.1030.1	46.452.1030.6
	2	46.452.2030.1	46.452.2030.6
	3	46.452.3030.1	46.452.3030.6
	4	46.452.4030.1	46.452.4030.6
	5	46.452.5030.1	46.452.5030.6

Connection cables female – free end



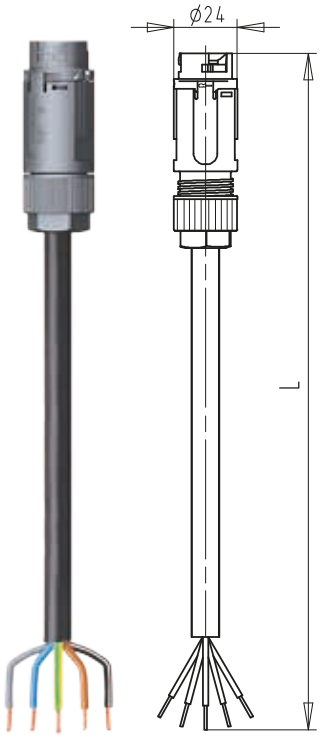
Cable	Length m	Mains 250 V 5 pole Part No.	Mains/signal 5 pole Part No.
PVC cable H05VV-F containing halogen	0.5	46.452.0503.1	46.452.0503.6
	1	46.452.1003.1	46.452.1003.6
	2	46.452.2003.1	46.452.2003.6
	3	46.452.3003.1	46.452.3003.6
	4	46.452.4003.1	46.452.4003.6
	5	46.452.5003.1	46.452.5003.6

Cable	Length m	Mains 250 V 5 pole Part No.	Mains/signal 5 pole Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.452.0533.1	46.452.0533.6
	1	46.452.1033.1	46.452.1033.6
	2	46.452.2033.1	46.452.2033.6
	3	46.452.3033.1	46.452.3033.6
	4	46.452.4033.1	46.452.4033.6
	5	46.452.5033.1	46.452.5033.6

Observe the installation instructions in the Technical Data that follow the product pages.
Other cables, other lengths, other codings upon request

Cable assemblies 1.5 mm², 16 A

Connection cables male – free end



Cable	Length m	Mains 250 V 5 pole Part No.	Mains/signal 5 pole Part No.
PVC cable H05VV-F containing halogen	0.5	46.452.0504.1	46.452.0504.6
	1	46.452.1004.1	46.452.1004.6
	2	46.452.2004.1	46.452.2004.6
	3	46.452.3004.1	46.452.3004.6
	4	46.452.4004.1	46.452.4004.6
	5	46.452.5004.1	46.452.5004.6

Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.452.0534.1	46.452.0534.6
	1	46.452.1034.1	46.452.1034.6
	2	46.452.2034.1	46.452.2034.6
	3	46.452.3034.1	46.452.3034.6
	4	46.452.4034.1	46.452.4034.6
	5	46.452.5034.1	46.452.5034.6

Observe the installation instructions in the Technical Data that follow the product pages.
Other cables, other lengths, other codings upon request

Distributors

RST compact distributor

Rated values

Dimensions (W x L x H)	104 x 162 x 57.2 mm
Input	1
Outputs	3
Pre-wired with	1.5 mm²
Mounting option	Yes

Application	Coding	Pole marking	Color	Part No.
Mains		1, 2, 3, N, PE	black light gray	46.050.0153.1 46.050.0153.0
Motor connection[1)]		1, 2, 3, PE	black light gray	46.050.0154.1 46.050.0154.0
Mains/signal (e.g. dimming)		L, N, PE, 1, 2	turquoise	46.050.0153.6
up to 400V without PE		1, 2, 3, 4, 5	light blue	46.050.0153.9
Extra-low voltage (60V~/120V-)		1, 2, 3, 4, 5	signal brown	46.050.0150.4
Extra-low voltage[1)] (60V~/120V-)		1, 2, 3, 4	signal brown	46.050.0151.4

[1)] One pole not configured (Observe installation instructions!). For custom solutions, see chapter on Distributors!

Accessories, sample kit

Cover caps

For the safe closure of female and male connectors.
With mounting strap for snapping onto plug connectors and device connectors

	Color	Part No.
Cover cap Male connector	black light gray	Z6.561.6853.1 Z6.561.6853.0
Cover cap Female connector	black light gray	Z6.561.7153.1 Z6.561.7153.0

Sample case RST16i5

Part No.
99.675.0000.0

Contents:
Connectors
Device connectors
Contact parts in various codings
Cover caps

Technical data RST16i3/2 / RST16i5/4

	RST16i3/2	RST16i5/4
Rated voltage	400V	250/400V
Rated current	16A	16A
Number of poles	3/2	5/4

Connector temperature range: - 40°C to 100°C

Material: Contact parts: brass, surface-treated
Housing parts: Polyamide, halogen-free, V2
Sealing material: NBR

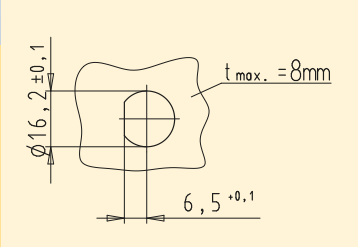
Pollution degree: 3 (when connected)

Protection rating: IP66/68 (3m; 2h)/69K

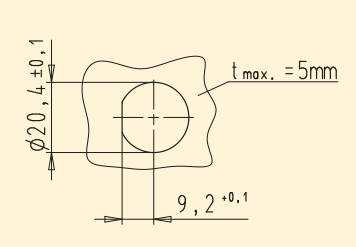
Plugging cycles: according to IEC 61535
100x without load and
50x under nominal load (cos phi = 0.6)

Approvals: VDE (IEC 61535)
UL (UL 2238 / UL 1977) being prepared
CSA (C22.2 No.182.1 / C22.2 No.182.3) being prepared

Housing cut-out RST16i3/2



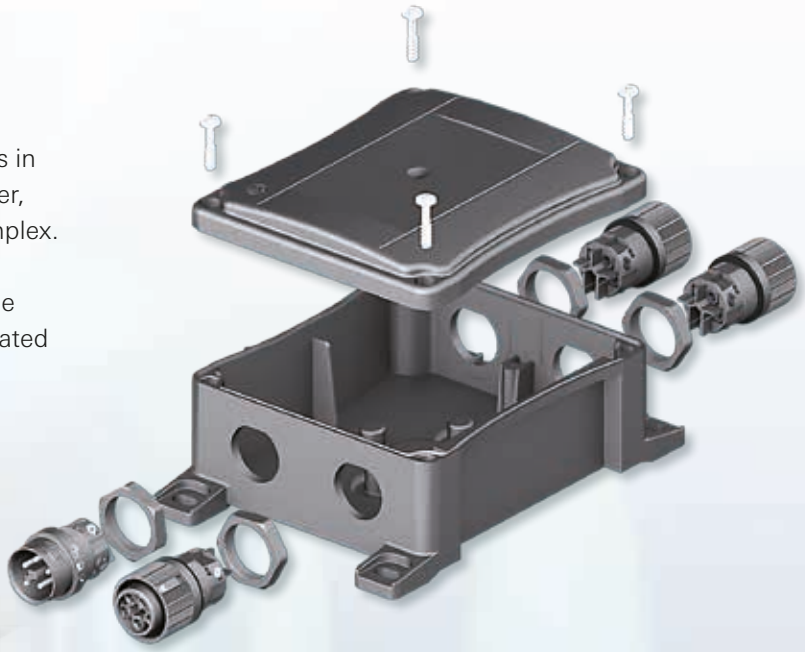
Housing cut-out RST16i5/4

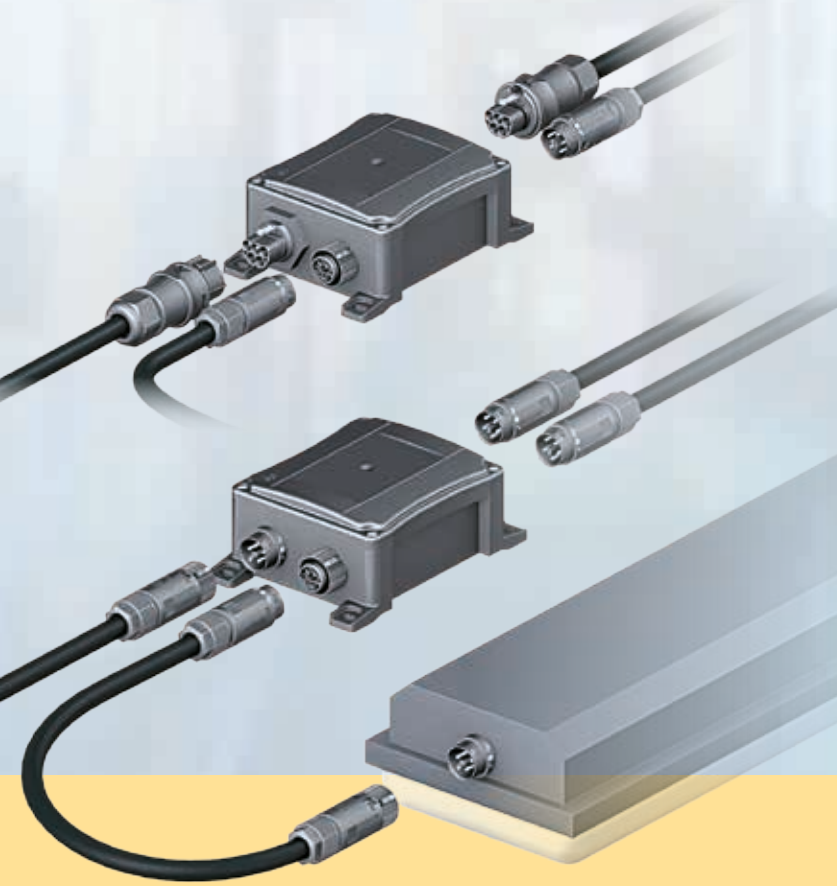


Compact and multiple distributors

Flexibility according to RST® modularity

The pluggable distributors play a major role in power or signal 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 rotary A/C current distributors and distributors with integrated fine fuses, all the way through to boxes with integrated electronics, such as constant current sources, voltage sources, or radio actuators.



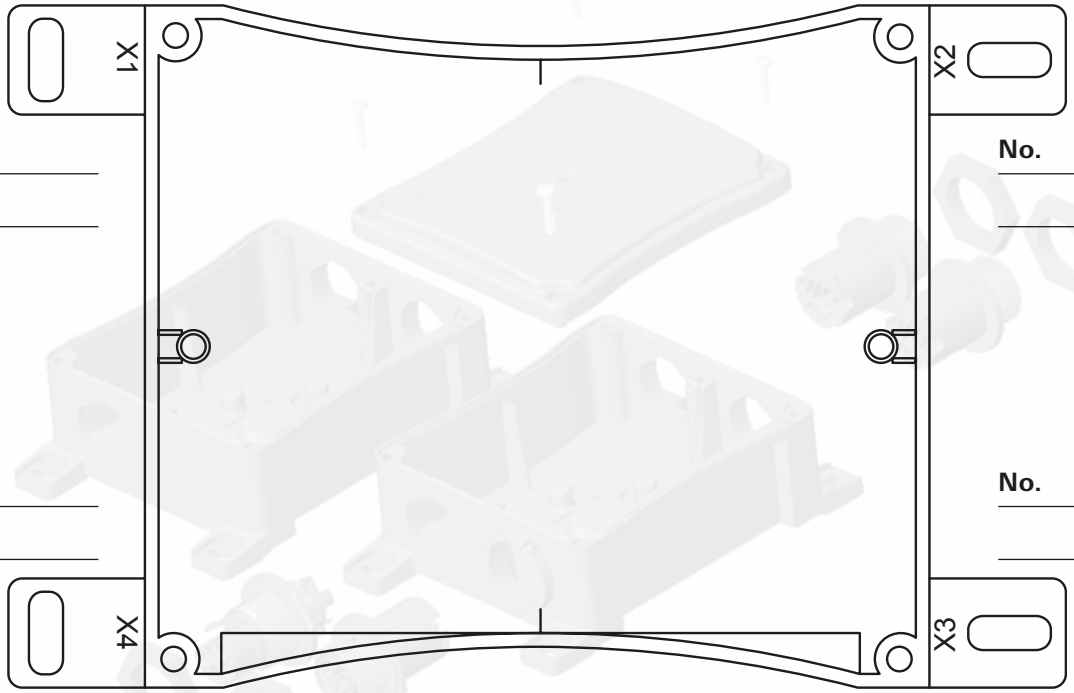


Two housing variations are the basis:

a flat design with up to four slots, and a high design with a total of up to eight slots. Alongside a customized configuration with the new RST16i device connectors, the existing components of the RST20i and RST25i lines can also be used for variety, of course.
The coded connectors give you the security of a clear distinction between different circuits – no need to redo any incorrect connections.
In addition to the compact and multiple distributors, standard distribution boxes can also be custom-equipped with device connectors.

Example

Special variant request –
please complete and fax: +49-951-9326-996



No. _____

No. _____

No. _____

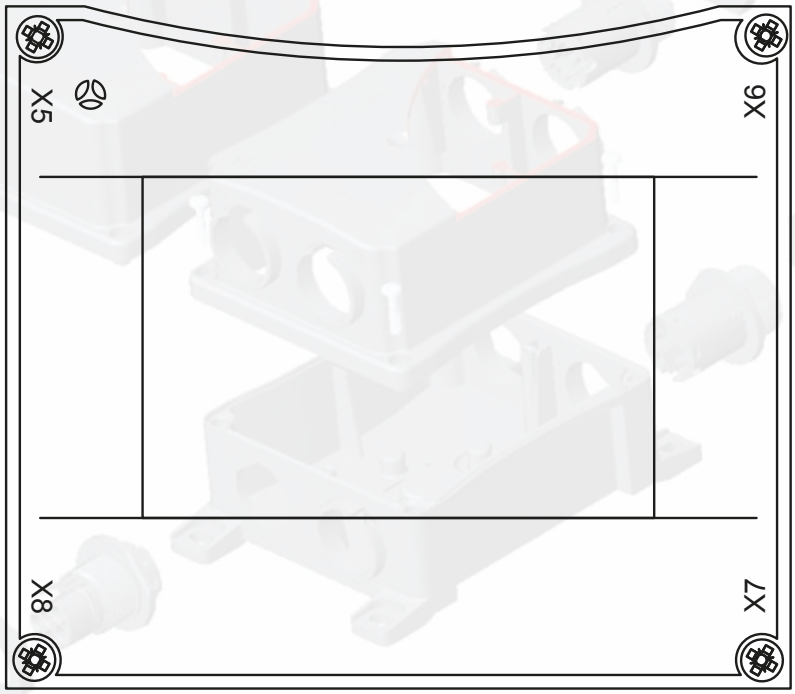
No. _____

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

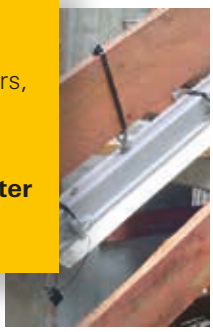
Bitte die benötigten Komponenten (Artikelnummer oder Polzal und Farbe) ergänzen und Verdrahtung einzeichnen.
Please add required components (either article code or number of poles and color) and the wiring scheme.

Cable assemblies

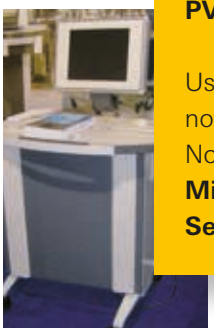
By default, we offer the low-cost H05VV-F cable, but its field of applications is restricted to indoor areas. This cable is not suitable for outdoor areas and constantly humid or wet rooms! Protection from foreign bodies (IP6X) is at the fore here. Temporary wetness for cleaning purposes, however, is allowed. Temporary outdoor installations without special demands can be implemented using H07RN-F rubber-sheathed cables. However, here too it is essential to check whether or not any additional action, such as laying inside installation pipes, is required. A higher-quality cable is recommended for installations that will be exposed to greater environmental influences for quite some time.

H07RN-F rubber-sheathed cable

Use inside dry, and wet rooms, as well as outdoors, but not directly in the ground.
Limited UV resistance.
Minimum bending radius: 4 x outside diameter
Service temperature: 60 °C







PVC cable H05VV-F

Use inside dry rooms,
not outdoors, not directly in the ground.
Not UV resistant.
Minimum bending radius: 4 x outside diameter
Service temperature: 70 °C

Cables for increased requirements (e.g. Ölflex® Black)

Use outdoors, may be laid in the ground,
UV-resistant.
Minimum bending radius: 4 x outside diameter
Service temperature: 80 °C



Definition of IP protection degrees (DIN EN 60529-1)

Documentation: **Example: IP69K**

1st digit 2nd digit

IP protection ratings against ingress of objects and contact

	Protection against contact	Protection against ingress of objects
0	no protection	no protection
1	Any large surface of the body (e.g. back of hand)	Large foreign objects (> 50 mm in Ø)
2	Finger	Medium-sized foreign objects (> 12 mm in Ø)
3	Tools and wires (> 2.5 mm in diameter)	Small foreign objects (> 2.5 mm in Ø)
4	Tools and wires (> 1.0 mm in diameter)	Grain-shaped foreign objects (> 12 mm in Ø)
5	Complete protection against contact	Dust deposition
6	Complete protection against contact	Dust ingress ✓
7		
8		
9		

IP protection ratings against ingress of water

0	no protection
1	Protection against vertically falling water
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 from any direction
5	Protection against jet spray water ✓
6	Protected against powerful water jets ✓
7	Protection against temporary immersion in water ✓
8	Protection against continuous immersion in water ✓
9K*)	Protection against high pressure, high temperature spray downs ✓

*) according to DIN 400 50

gesis® RST®

As an innovative installation system, Wieland offers a global concept for efficient outdoor installation and industrial application.

In many applications, electrotechnical devices and systems must reliably work for many years under tough environmental conditions. To ensure a reliable function, it is essential to prevent the penetration of humidity or particles (e.g. dust, oil, soot, etc.) in production plants, garages or in outdoor areas. Even an unplanned immersion is possible with the RST® system within the scope of the specified degree of protection.

The system is not designed for permanent operation under water.
It is not possible to lay the components directly in the ground.
According to VDE 0100-520, connectors must be protected using suitable additional facilities and must be accessible for visual inspection, testing, and maintenance.
Refer also to the installation instructions.

Degree of protection achieved:

IP65	Water jets
IP66	Powerful water jets
IP67	Temporary immersion
IP68	Continuous immersion (for 2 hours at a water depth of 3 m)
IP69K	High-pressure spray down

Installation instructions for outdoor electrical installations

Outdoor electrical 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 distributors 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.

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 water condensation can 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.

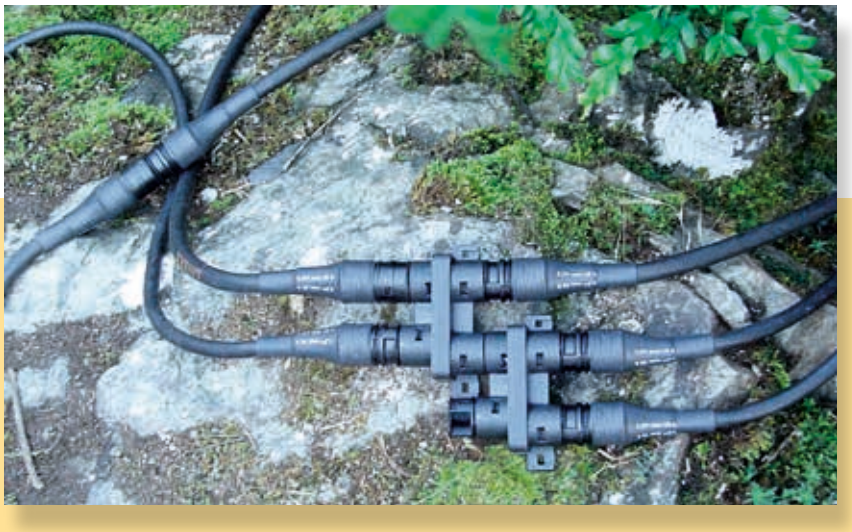
Avoid any bending of the cable in the area of the strain relief.

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

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

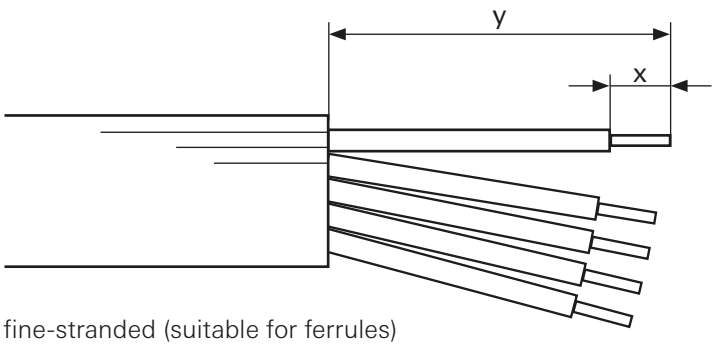
The connector system is not designed for continuous operation under water. However, unplanned immersion is possible as foreseen by the specification.

Further information can be found in our White Paper "Installation instructions for outdoor electrical installations", order no. 0693.1



Wire strip lengths
Installation instructions

Wire strip lengths

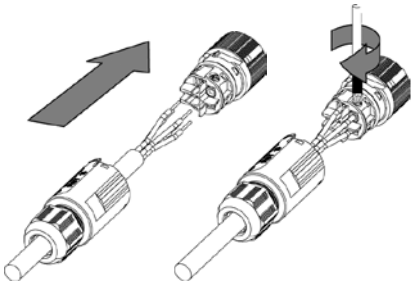


fine-stranded (suitable for ferrules)

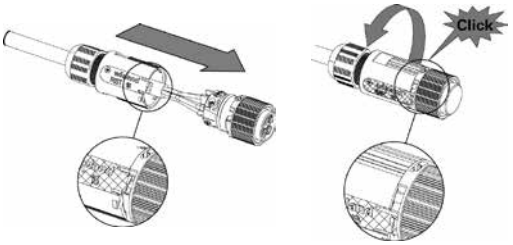
Conductor	PE	N, L, 1, 2, 3
Sheath strip length y (in mm)	33	25
Wire strip length x (mm)	8	8

Installation instructions

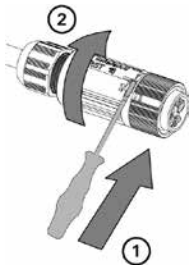
Wire connection



Locking the housing

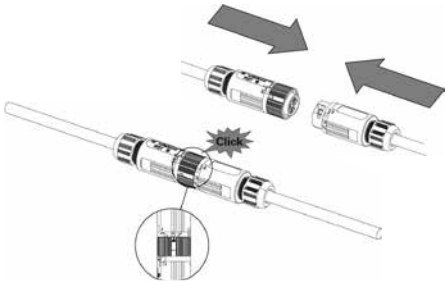


Opening the housing

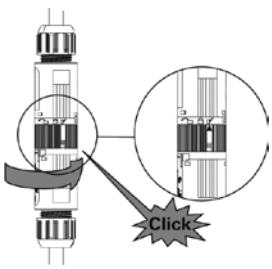


TWISTLOCK – the smart lock

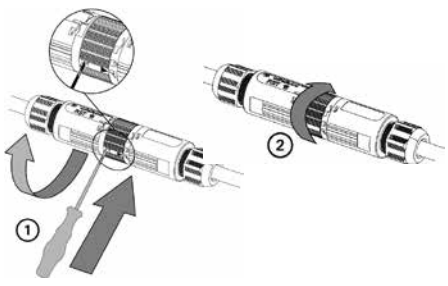
Automatic lock



Optional “SAFE-LOCK”



Unlock from “SAFE LOCK”



Please note that electrical connections and installation shall only be done by trained experts.
Observe the included installation instructions!

Detailed installation instructions can be found under https://eshop.wieland-electric.com

Pluggable installation solutions from Wieland

Further information

Technical support

Automation technology:

Phone: +49 951 9324- . . .

- Safety technology ***safety*** **-999**
  e-mail: safety@wieland-electric.com
- ***interface:*** **-995**
  Power supply, industrial Ethernet switches, timer relays, measuring and monitoring relays, coupling relays, analog modules, remote I/O, surge protection, passive interfaces, remote power distribution ***podis***®
- DIN rail terminal blocks ***fasis, selos*** **-991**
  Industrial multipole connectors ***revos***
  PCB terminals and connectors ***wiecon,*** appliance terminals, european terminal strips, housings for electronic components

Fax: **+49 951 9326-991**
e-mail: **AT.TS@wieland-electric.com**

Technical Support

Building services engineering:

Phone: +49 951 9324- . . .

- System connectors for building installation **-996**
  gesis®CON, ***gesis***®RAN, ***gesis***®ELECTRONIC
- DIN rail terminal blocks ***fasis*** BIT, ***selos*** BIT **-991**

Fax: +49 951 9326-996
e-mail: **BIT.TS@wieland-electric.com**

Additional information for pluggable installation:

gesis®INDOOR	Part No. 0670.1
gesis®OUTDOOR	Part No. 0690.1
gesis®ELECTRONIC	Part No. 0700.1
gesis® RAN	Part No. 0409.1
Shop fitting	Part No. 0417.1
Light	Part No. 0407.1

Information about Wieland products in general:

Wieland program overview Part No 0902.1

General information and news:
www.wieland-electric.com
Visit our eShop at
http://eshop.wieland-electric.com

Sales service:

- To contact our sales department regarding availability, delivery schedules, and pricing please call

Phone: +49 951 9324-990

Our subsidiaries

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

USA
Wieland Electric Inc.
North American Headquarters
2889 Brighton Road
Oakville, Ontario L6H 6C9
Phone +1 905 8298414
Fax +1 905 8298413
www.wielandinc.com

CANADA
Wieland Electric Inc.
North American Headquarters
2889 Brighton Road
Oakville, Ontario L6H 6C9
Phone +1 905 8298414
Fax +1 905 8298413
www.wieland-electric.ca

GREAT BRITAIN
Wieland Electric Ltd.
Riverside Business Centre,
Walnut Tree Close
GB-Guildford/Surrey GU1 4UG
Phone +44 1483 531213
Fax +44 1483 505029
sales.uk@wieland-electric.com

FRANCE
Wieland Electric SARL.
Le Céramê Hall 6
47, avenue des Genottes
CS 48313
95803 Cergy-Pontoise Cedex
Phone +33 1 30320707
Fax +33 1 30320714
info.adv@wieland-electric.com

SPAIN
Wieland Electric S.L.
C/ Maria Auxiliadora 2 bajos
E-08017 Barcelona
Phone +34 93 2523820
Fax +34 93 2523825
ventas@wieland-electric.com

ITALY
Wieland Electric S.r.l.
Via Edison, 209
I-20019 Settimo Milanese
Phone +39 02 48916357
Fax +39 02 48920685
info.italy@wieland-electric.com

BELGIUM
ATEM-Wieland Electric NV
Bedrijvenpark De Veert 4
B-2830 Willebroek
Phone +32 3 8661800
Fax +32 3 8661828
info.belgium@wieland-electric.com

DENMARK
Wieland Electric A/S
Vallørækken 26
DK-4600 Køge
Phone +45 70 266635
Fax +45 70 266637
sales.denmark@wieland-electric.com

SWITZERLAND
Wieland Electric AG
Harzachstrasse 2b
CH-8404 Winterthur
Phone +41 52 2352100
Fax +41 52 2352119
info.swiss@wieland-electric.com

POLAND
Wieland Electric Sp. Zo.o.
Św. Antoniego 8
62-080 Swadzim
Phone +48 61 2225400
Fax +48 61 8407166
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 63555833
Fax +86 21 63550090
info-shanghai@wieland-electric.com

JAPAN
Wieland Electric Co, Ltd.
Nisso No. 16 Bldg. 7F
3-8-8 Shin-Yokohama,
Kohoku-ku
Yokohama 222-0033
Phone +81 45 473 5085
Fax +81 45 470 5408
info-japan@wieland-electric.com

Informational material for downloading from our websites

wieland

gesis® RST®

Headquarters:
Wieland Electric GmbH
Brennerstraße 10 – 14
96052 Bamberg, Germany

Sales Center:
Wieland Electric GmbH
Benzstraße 9
96052 Bamberg, Germany

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

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 mm²
  - 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
  - Aluminium or plastic housings
  - Degree of protection up to IP 69K
  - 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 69K
  - Bus connectors
  - Low-voltage connectors
  - Power distribution system with flat cables
  - Distribution systems
  - Room automation with KNX and wireless technology
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection

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contacts are green.