



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Wieland Electric GmbH		
Address	Brennerstrasse 10-14, Bamberg, 96052, Germany		
Type	Power Distribution Systems & Power Supplies		
Description	Connector system Refer to the Appendix for details.		
Trade Name	RST08i2, RST08i3, RST16i2, RST16i3, RST16i4, RST16i5, RST20i2, RST20i3, RST20i4, RST20i5, RST20i6, RST20i7, RST25i3, RST25i5		
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3, ENV4 and ENV5** as defined in LR Type Approval System, Test Specification Number 1 – 2019. (** = except RST16i2-i3, RST20i6/i7)		
Specified Standard	IEC 61535:2023 (Types RST16, RST20, RST25) DIN EN 61984 (VDE 0627):2009-11; EN 61984:2009 (Type RST08) DIN EN 61984 Berichtigung 1 (VDE 0627 Berichtigung 1): 2012-03 (Type RST08)		
Ratings		voltage	current
	RST08i2	250/400V	8A 0.25 - 0.75 mm ² *
	RST08i3	250/400V	8A 0.25 - 0.75 mm ² *

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RST16i2	250/400V	16A	0.25 – 2.5 mm ²
RST16i3	250/400V	16A	0.25 – 2.5 mm ²
RST16i4	250/400V	16A	0.25 – 2.5 mm ²
RST16i5	250/400V	16A	0.25 – 2.5 mm ²
RST20i2	250V	20A	0.75 – 6 mm ²
RST20i3	250V	20A	0.75 – 6 mm ²
RST20i4	250/400V	20A	0.75 – 4.0 mm ²
RST20i5	250/400V	20A	0.75 – 4.0 mm ²
RST20i6	250/400V	20A	0.2 – 2.5 mm ²
RST20i7	250/400V	20A	0.2 – 2.5 mm ²
RST25i3	250V	25A	0.75 – 6 mm ²
RST25i5	250/400V	25A	0.75 – 4.0 mm ² **

* rigid connectors with 1,0mm are connectable also

** 1.5 - 6.0mm² possible with special parts (Art.-No. 99.575-578.0000.7)

Additional Tests

Dry heat(100°C/16h) for RST16i4-i5, RST20i3-i5, RST25
 Lowtemperature(-40°C/16h)
 EnclosureIP66 / IP69, IP68 (3m/2h) for RST16i..., RST20i..., RST25i...
 EnclosureIP66 / IP67, IP68 (3m/2h) for RST08i...
 EnclosureIP69 for RST08i... mated or unmated with end cap
 UVresistant (ISO 4892-2 Method A) for RST20 and RST25

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR21109868TA-05

The Design Appraisal Document TSO-25-047434/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES

RST08i2, RST08i3, RST16i2, RST16i3, RST16i4, RST16i5, RST20i2, RST20i3, RST20i4, RST20i5, RST20i6, RST20i7, RST25i3, RST25i5 and Saris M12

RST08I	3	S B1	Z	R1	H	SW
I	II	III	IV	V	VI	VII

- I Basic type designation
- II Number of Poles: 2 up to 3
- III Type of connector and terminal type
 - S .. = single screw terminal without wire protection
 - _ B1 = .. female contact
 - _ S1 = .. male contact
 - _ 11 = .. female contact with contact sealing (longitudinally watertight)
 - _ 21 = .. male contact with contact sealing (longitudinally watertight)
- IV Strain relief
 - Z =with cord anchorage
- V Strain relief variants
 - R1 = round cable, single cord 4,0mm – 7,0mm
- VI Retaining means
 - H = retaining means with manual release
- VIII Colour: all colours, i. e.
 - SW = black (deep black - RAL 9005) _ Cod. 1
 - BL = blue (light blue - RAL 5012) _ Cod. 2
 - SG = grey (slate grey - RAL 7015) _ Cod. 3
 - KG = grey (pebble grey - RAL 7032) _ Cod. 4
 - or any other two digit colour coding

Locking pieces for socket 06.563.5053.1 or plug 06.563.5153.1

RST08I	3	S B1	-	MO	2	H	SW
I	II	III	IV	V	VI	VII	VII

- I Basic type designation
- II Number of Poles: 2 up to 3
- III Type of connector and terminal type
 S .. = single screw terminal without wire protection
 _ B1 = .. female contact
 _ S1 = .. male contact
 _ 11 = .. female contact with contact sealing (longitudinally watertight)
 _ 21 = .. male contact with contact sealing (longitudinally watertight)
- IV Kind of anti-twist device
 without = flange with anti-twist device (standard)
- V Kind of fixing
 MO = metric screw thread straight exit
- VI Extended kind of fixing
 2 = M14
- VII Retaining means
 H = with manual release
- VIII Colour: all colours, i. e.
 SW = black (deep black - RAL 9005) _ Cod. 1
 BL = blue (light blue - RAL 5012) _ Cod. 2
 SG = grey (slate grey - RAL 7015) _ Cod. 3
 KG = grey (pebble grey - RAL 7032) _ Cod. 4
 or any other two digit colour coding

Locking pieces for socket 06.563.5053.1 or plug 06.563.5153.1

RST08I	3	VL	3P1	H	F	VH	SW
I	II	III	IV	V	VI	VII	VII

- I Basic type designation
- II Number of Poles: 2 up to 3
- III Block or coupler type
VL = distribution blocks (longitudinally watertight)
- IV Socket outputs a) and plug inputs c) with electrical function b)
 - a) 2 = 2 outputs
3 = 3 outputs
 - b) P = outputs parallel to input
R = series connection
G = mixed circuit (serial and parallel)
 - c) 1 = 1 input
- V configuration of distribution block
H = H-Form
Y = Y-Form
- VI Mounting means
w/o = without
F = Screw-on flange
- VII Retaining means
w/o = without retaining means
V = with retaining means
- VIII Colour: all colours, i. e.
SW = black (deep black – RAL 9005)_Cod. 1
BL = blue (light blue – RAL 5012)_Cod. 2
SG = grey (slate grey – RAL 7015)_Cod. 3
KG = pebble grey (pebble grey – RAL 7032)_Cod. 4
or any other two digit colour coding

Locking pieces for socket 06.563.5053.1 or plug 06.563.5153.1

RST16I	5	S B1	Z	T6	V	SW
I	II	III	IV	V	VI	VII

I Basic type designation

II Number of Poles: 2 up to 5

III Type of connector and terminal type

S B1 = single screw terminal provided with female contact without wire protection

S S1 = single screw terminal provided with male contact without wire protection

IV Cord anchorage

Z =with cord anchorage

V Cord anchorage variations

T4 = round cable, single cord 7,5mm – 10,0mm

T5 = round cable, single cord 12,5mm - 14,4 mm

T6 = round cable, single cord 7,7mm – 12,0mm

VI Retaining means

V = with retaining means

VIII Colour: all colours, i. e.

GL = grey (light grey – RAL 7035)

SW = black (jet black – RAL 9005)

BR = brown (signal brown – RAL 8002, Cod. 3: 50V)

GN = green (leaf green – RAL 6002)

BL = blue (light blue – RAL5012, Cod. 4: switching operation without PE)

TB = blue (turquoise blue – RAL5018, Cod. 2: dim)

or any other two-digit colour coding

Locking pieces for socket Z6.561.7253.0/1 or plug Z6.561.6953.0/1

RST16I	3	V	2P1	TG	VG	SW
I	II	III	IV	V	VI	VII

- I Basic type designation
- II Number of Poles: 2 up to 5
- III Block or coupler type
V = distribution blocks
- IV Number of channels
2P1 = one male input with two female outputs
2R1 = one male input with two female outputs, series connection
- V Configuration of distribution block (X_) and contact arrangement (_Y)
no suffix = standard form
T_ = with carrier plate
_G = contact mixed
- VI Retaining means (X_) and contact surface (_Y)
V_ = with retaining means
_G = silver plated
- VIII Colour: all colours, i. e.
GL = grey (light grey – RAL 7035)
SW = black (jet black- RAL 9005)
BR = brown (signal brown – RAL 8002, Cod. 3: 50V)
GN = green (leaf green – RAL 6002)
BL = blue (light blue – RAL5012, Cod. 4: switching operation without PE)
TB = blue (turquoise blue – RAL5018, Cod. 2: dim)
or any other two-digit colour coding

Locking pieces for socket Z6.561.7253.0/1 or plug Z6.561.6953.0/1

RST16I	5	S B1	-	M0	3	-	GL
I	II	III	IV	V	VI	VII	VIII

- I Basic type designation

- II Number of poles: 2 up to 5
- III Type of connector and terminal type
 - S B1 = single screw terminal provided with female contact without wire protection
 - S S1 = single screw terminal provided with male contact without wire protection
- IV Strain relief
 - = without twist protection
 - Z = with twist protection (e.g. pins)
- V Kind of fixing
 - M0 = metric screw thread straight exit
- VI Extended kind of fixing
 - 2 = M16
 - 3 = M20,2
- VII Retaining means
 - V = with retaining means
- VII Colour
 - GL = grey (light grey – RAL 7035)
 - SW = black (jet black- RAL 9005)
 - BR = brown (signal brown – RAL 8002, Cod. 3: 50V)
 - GN = green (leaf green – RAL 6002)
 - BL = blue (light blue – RAL5012, Cod. 4: switching operation without PE)
 - TB = blue (turquoise blue – RAL5018, Cod. 2: dim)

RST20I	3	SB1	Z	R1	V	GL
I	II	III	IV	V	VI	VII

- I Basic type designation
- II Number of poles: 2 up to 3
- III Type of connector and terminal type
 - SB1 = single screw terminal provided with female contact
 - SDB1 = single screw terminal with wire protection, provided with female contact
 - SS1 = single screw terminal provided with male contact
 - SDS1 = single screw terminal with wire protection, provided with male contact
 - FB2 = double screwless terminal provided with female contact
 - FS2 = double screwless terminal provided with male contact

- IV Cord anchorage
 Z = with cord anchorage, straight
 Y = with cord anchorage, angled 90°
- V Cord anchorage variations
 R1 = round cable, single cord 6.4mm – 10mm
 R2 = round cable, single cord 10mm – 11.2mm
 R3 = round cable, single cord 12.1mm – 16.8mm
 R7 = round cable, single cord 7.4mm – 12.5mm
 RW = flat cable, 14mm x 6mm
 RX = round cable, double cord 6.4mm – 10mm
 RY = round cable, double cord 10mm – 11.2mm
- VI Retaining means
 V = with retaining means
- VII Colour
 for 250V
 GL = grey (RAL 7035)
 SW = black (RAL 9005)
 BL = light blue (RAL 5012)
 KG = pebble grey (RAL 7032)
 BR = brown (RAL 8002)
 for 250/400V
 GN = green (RAL 6002)

RST20I	3	SB1	M0	0	V	GL
I	II	III	IV	V	VI	VII

- I Basic type designation
- II Number of poles: 2 up to 3
- III Type of connector and terminal type
 SB1 = single screw terminal provided with female contact
 SDB1 = single screw terminal with wire protection, provided with female contact
 SS1 = single screw terminal provided with male contact
 SDS1 = single screw terminal with wire protection, provided with male contact
 FB2 = double screwless terminal provided with female contact
 FS2 = double screwless terminal provided with male contact

- IV Kind of fixing
 - M0 = metric screw thread straight exit
 - M1 = metric screw thread straight exit 7°
 - M9 = metric screw thread straight exit 90°
- V Extend kind of fixing
 - 0 = M20
 - 1 = M25
 - 2 = M32
 - 3 = M16
- VI Retaining means
 - V = with retaining means
- VII Colour
 - for 250V
 - GL = grey (RAL 7035)
 - SW = black (RAL 9005)
 - BL = light blue (RAL 5012)
 - KG = pebble grey (RAL 7032)
 - BR = brown (RAL 8002)
 - for 250/400V
 - GN = green (RAL 6002)

End caps 05.564.4453.0/1 and Z5.564.4453.0/1 for male and female outputs

RST20I	5	SB1	Z	R1	V	GL
I	II	III	IV	V	VI	VII

- I Basic type designation
- II Number of poles: 4 up to 7
- III Type of connector and terminal type
 - SB1 = single screw terminal provided with female contact
 - S11 = single screw terminal provided with female contact for longitudinally watertightness
 - SS1 = single screw terminal provided with male contact
 - S21 = single screw terminal provided with male contact for longitudinally watertightness
- IV Cord anchorage
 - Z = with cord anchorage, straight

							Y = with cord anchorage, angled 90°
V							Cord anchorage variations
							R1 = round cable, single cord 6.4mm – 10mm
							R2 = round cable, single cord 10mm – 11.2mm
							R3 = round cable, single cord 12.1mm – 16.8mm
							R7 = round cable, single cord 7.4mm – 12.5mm
							RW = flat cable 14mm x 6mm
							RX = round cable, double cord 6.4mm – 10mm
							RY = round cable, double cord 10mm – 11.2mm
VI							Retaining means
							V = with retaining means
VII							Colour (all colours, i.e.)
							GL = light grey
							SW = black
							BR = signal brown
							TB = turquoise blue
							BL = light blue
							GE = yellow
RST25I	5	SB1	Z	R1	V	GL	
I	II	III	IV	V	VI	VII	
I							Basic type designation
II							Number of poles: 3 or 5
III							Type of connector and terminal type
							SB1 = single screw terminal provided with female contact without wire protection
							SS1 = single screw terminal provided with male contact without wire protection
IV							Cord anchorage
							Z = with cord anchorage, straight
							Y = with cord anchorage, angled 90°
V							Cord anchorage variations
							R1 = round cable, single cord 6.4mm – 10mm
							R2 = round cable, single cord 10mm – 11.2mm
							R3 = round cable, single cord 12.1mm – 16.8mm
							R7 = round cable, single cord 7.4mm – 12.5mm
							RW = flat cable 14mm x 6mm
							RX = round cable, double cord 6.4mm – 10mm
							RY = round cable, double cord 10mm – 11.2mm
VI							Retaining means
							V = with retaining means
VII							Colour / Coding

BG = concrete-grey
 GL = light grey
 SW = black
 BR – signal brown
 TB = turquoise blue
 BL = light blue

RST25I	5	SB1	M0	1	V	GL
I	II	III	IV	V	VI	VII

- I Basic type designation
- II Number of poles: 3 or 5
- III Type of connector and terminal type
 SB1 = single screw terminal provided with female contact without wire protection
 SS1 = single screw terminal provided with male contact without wire protection
- IV Kind of fixing
 M0 = metric screw thread straight exit
 M9 = metric screw thread straight exit 90°
- V Extend kind of fixing
 0 = M20
 1 = M25
 2 = M32
 3 = M16
- VI Retaining means
 V = with retaining means
- VII Colour / Coding
 BG = concrete-grey
 SW = black
 BR – signal brown
 TB = turquoise blue
 BL = light blue

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