Certification Record

Customer	Class	File Number
Wieland Electric GmbH Brennerstrasse 10-14, Bamberg/Bayern Germany 96052	6233-01 RECEPTACLES-Attachment Plug Type and Plugs	062582_0_000

TO THE REQUIREMENTS OF STD C22.2 NO 182.1:

Component type, modular, special use Plugs, Connectors, Receptacles and Inlets, Series “gesis IP+ RST 20i.. and RST 25i.. For use with polymeric and rubber sheathed cable with outer diameter between 6 mm and 18 mm, for indoor or outdoor use in Ordinary Locations, enclosure TYPE 6P, Rated 600V, AC.

Electrical ratings for Type RST20i.. are as follows:

Component	Connection	No. of Poles	Wire size Solid (AWG)	Wire size Stranded (AWG)	max. current rating Types RST 20i.. (Note 7.)	Enclosure type designation
Insert	S/MC	2 or 3	-	20-12	20 A	*
Insert	S/FC	2 or 3	-	20-12	20 A	*
Inlet	S/MC	2 or 3	18-12	20-12	20 A	TYPE 6P
Receptacle	S/FC	2 or 3	18-12	20-12	20 A	TYPE 6P
Insert	TC/MC	2 or 3	-	20-16	15 A	*
Insert	TC/FC	2 or 3	-	20-16	15 A	*
Inlet	TC/MC	2 or 3	20-14	20-16	15 A	TYPE 6P
Receptacle	TC/FC	2 or 3	20-14	20-16	15 A	TYPE 6P
Plug with fixed cord	WC/MC	3	-	14	15 A	TYPE 6P
Connector with fixed cord	WC/FC	3	-	14	15 A	TYPE 6P

Splitter	FC/MC	3	N	N	20 A	TYPE 6P
End cap made	N/A	-	-	-	-	TYPE 6P
End cap made	N/A	-	-	-	-	TYPE 6P
Insert	S/MC	4 or 5	-	18-12	20 A	*
Insert	S/FC	4 or 5	-	18-12	20 A	*
Inlet	S/MC	4 or 5	18-12	18-12	20 A	TYPE 6P
Receptacle	S/FC	4 or 5	18-12	18-12	20 A	TYPE 6P
Insert	WC/MC	4 or 5	-	18	7 A	*
Insert	WC/FC	4 or 5	-	18	7 A	*
Inlet	WC/MC	4 or 5	18	18	7 A	TYPE 6P
Receptacle	WC/FC	4 or 5	18	18	7 A	TYPE 6P
Insert	WC/MC	4 or 5	-	16	10 A	*
Insert	WC/FC	4 or 5	-	16	10 A	*
Inlet	WC/MC	4 or 5	16	16	10 A	TYPE 6P
Receptacle	WC/FC	4 or 5	16	16	10 A	TYPE 6P
Insert	WC/MC	4 or 5	-	14	15 A	*
Insert	WC/FC	4 or 5	-	14	15 A	*
Inlet	WC/MC	4 or 5	14	14	15 A	TYPE 6P
Receptacle	WC/FC	4 or 5	14	14	15 A	TYPE 6P
Insert	WC/MC	4 or 5	-	12	20 A	*
Insert	WC/FC	4 or 5	-	14	15 A	*
Inlet	WC/MC	4 or 5	12	12	20 A	TYPE 6P
Receptacle	WC/FC	4 or 5	12	12	20 A	TYPE 6P
End cap made	N/A	-	-	-	-	TYPE 6P

End cap made	N/A	-	-	-	-	TYPE 6P

Legend:

'FC' Socket (Female Connector), 'MC' Plug (Male Connector), 'S' Screw, 'TC' Tension Clamp; 'WC' Wire Crimp. 'N' Not applicable

* TYPE 6P in combination with shroudings and/or housings, providing the degree of protection.

Electrical ratings for type RST25i.. are as follows:

Component	Connection	No. of Poles	Wire size Solid (AWG)	Wire size Stranded (AWG)	max. current rating Types RST 25i.. (Note 6 and 7)	Enclosure type designation
Insert	S/MC	3	-	12	25 A	*
Insert	S/FC	3	-	12	25 A	*
Insert	S/MC	5	-	12	25 A	*
Insert	S/FC	5	-	12	25 A	*
Insert	WC/MC	5	-	12	25 A	*
Insert	WC/FC	5	-	12	25 A	*
End cap made	N/A	-	-	-	-	TYPE 6P
End cap made	N/A	-	-	-	-	TYPE 6P

Legend:

'FC' Socket (Female Connector), 'MC' Plug (Male Connector), 'S' Screw, 'TC' Tension Clamp; 'WC' Wire Crimp.

* TYPE 6P in combination with shroudings and/or housings, providing the degree of protection.

Notes:

1.
Equipment is subject to investigation in the end use.

2.
Equipment may be identified by part number which has the form of 96.XXX.XXXX.X where X is a decimal character.

3.
Plugs and receptacles may consist of: either an insert containing the electrical contacts and a shrouding that forms an enclosure providing the degree of protection, or one factory assembled part.

4.
Inlets and receptacles may consists of: either an insert containing the electrical contacts and a housing that forms an enclosure providing the degree of protection, or one factory assembled part.

5.
The degree of protection is fulfilled when a device is mated to its counterpart or to an end cap.

6.
The max. current rating of a device is the sum of the current through each circuit in the device. Conductors or cables in the device are not allowed to carry currents higher than their maximum rating as per Canadian Electrical Code.

7.
The shroudings used with a 5-pole Insert with screw connection are limited for use with a cable with core size of 14 AWG maximum.

8.
The Connectors, Plugs, Receptacles and Inlets are not for interrupting current. Accidental opening is prevented by a Locking Pin.

9.
For crimp-type connectors and receptacles, the manufacturer's recommended tooling is to be used: crimping tool model 95.010.0800.0 with crimping die model 05.502.2100.0 and contact positioner model 05.502.3600.0.
The terminal barrel (forming the crimp) is to be of the size that is recommended for the wire size, model 02.125.5521.8 (female) and model 05.545.0021.8 (male) for 18 AWG, model 02.125.5621.8 (female) and model 05.545.0121.8 (male) for 16 AWG, model 02.125.5721.8 (female) and model 05.545.0221.8 (male) for 14 AWG, model 02.125.5821.8 (female) and model 05.545.0321.8 (male) for 12 AWG.

10.
Cords shall be installed according CEC Part 1.

11.
For use with copper conductors rated 75 ºC or higher.

TO THE REQUIREMENTS OF STD C22.2 NO 182.3:

Connectors, special-use, connecting system 'Top', Types WKB 2.5/St/U, WKB 2.5/B/U, 10-poles, for No 12 to 22 AWG, 5A, 300V; St29/10B, St29/10BC, St29/10BL and St29/10S, 10-poles for No 14 to 22 AWG, 5A, 300V; Z5-599-9025 and Z5-599-9125, 10-poles, for printed wiring board mounting, 5A, 300V; WKB 2.5/U, 10-poles, interconnecting block for No 12 AWG max, 10A, 300V; WKB 2.5/StB2/U-16, 16-poles, WKB 2.5/StB2/U-20, 20-poles, WKB 2.5/StB4/U-34, 34-poles and WKB 2.5/StB4/U-40, 40-poles, for No 12 to 22 AWG and multi-pole connector for use with multi-conductor flat cable, 1A, 50V.

Connectors, special-use, Type ST17/4, 4 poles for No 14 AWG, 15A, 380V; ST18/3, -4, -5, -6, -7, 3 up to 7 poles for No 14 AWG, 15A, 380V.

Connectors, special-use, for pcb-mounting Types 8113, 8213, 8313, 8413 rated 15A, 300V, 22-12 AWG solid and stranded copper conductors, for all variations; except for tab connections; Suffix SE rated 10A; suffix DFWW rated 6.5A; Suffix DFLS rated 8A; Suffix BK rated 13A for 14 AWG, 11A for 16 AWG, 10A for 18 AWG, 6A for 20 AWG; Suffix BSK rated 3A; Suffix BFK, SUFK and for solder connections rated 12A; 600V for 8113/8213 BL..TR , B/3/2 through /23/12 and S/3/2 through /23/1; Suffix SU, rated 12 A, 300 V; Suffix F2, latching mechanism; Type 8113, with Suffixes S /4 OL, S /4 OR, 300 V, 10 A.

Connectors, special-use, for pcb-mounting Type 8813, 2 up to 20 poles, for Nos 22-14 AWG, 5A, 300V.

Sp-use connectors Cat Nos 99.400.0400 (remale) and 99.401.0400.0 (male), rated 380V, 20A, for use with Nos 12 and 14 AWG solid copper conductors.

Special-use connectors, Type 8513 B, 8513 BFK, 8513 S, 8513 SUFK, 8513 SEG, 8513 SU for No. 22-14 AWG, 5A, 300V.

Series revos Mot Type 75.012.0053.0 and 75.012.5053.0, 16A, 600V, 10 poles plug guard, for No. 20-12 AWG (crimp terminals) combined in plastic housing.

Series REVOS SLIDE, type 99.700.6905.5 and 99.701.6905.5, 10 A, 600 V, 16 AWG crimp terminals.

Connectors special use Type MIN STS 4 2,5 40 or 73.310.0453.0 male and MIN BUS 4 2,5 40 or 73.300.0453.0 female, wire size 13 to 20 AWG, rated 10 A, 600 V for use with copper wire only.

Connectors special use Series 7415 B (female) and 7413 S (male), 2 up to 8 poles, wire size 10-22 AWG, rated 15 A, 600 V for use with copper wire only.

Series BAS STM 06, 10, 16 and 24, BAS BUM 06, 10, 16 and 24, BAS STF 03, 06, 10 and BAS BUF 03, 06, 10 with the following rating:

Cat. No.	AWG	Amps	Rated Voltage	Poles
BAS-STM...	14-26	11.5	600	6-24
BAS BUM	14-26	11.5	600	6-24
BAS STF	12-26	16	600	3-10
BAS BUF	12-26	16	600	3-10

Notes:

1. The Series designations are followed by numbers, thus forming part number of housing, terminal, etc.
2. The connectors and plugs with voltage rating below 600V, may be acceptable at voltages greater than rated voltage when they are components of Certified electrical equipment permitting small spacings.
3. The connectors and plugs are not for interrupting current.
4. The crimp connections are to be made with this submittors hand or power operated crimping-tools.
5. The devices without strain relief are suitable for use inside cabinets etc. only.
6. The unassembled parts are sold only to manufacturer's for assembly of Certified electrical equipment and are Certified only for use in equipment where the acceptability of the combination is to be determined by CSA International.
7. The type designation of Series 8113-8413 may be followed by additional numbers and/or letters indicating mechanical details, etc. Approved suffixes include: Number 2 to 24, B, BL, S, SE, VL, VR, TOP, TOP LED, G, W, S, S1, DFWW, DFLS, F, M. OF, OB, GR, SW, GN. 8.

S-use connectors, Series GST18I, Type screw clamp (rewireable) torque 0.5-0.7 Nm, rated 20A max (Nos 12 to 22AWG), 600V.

S-use connectors, Series GST18I, Type crimp (rewireable), rated 20A max (Nos 12 to 22AWG), 600V.

S-use connectors, Series GST18I, Type snap-in chassis mount, screw clamp, rated 20A max (Nos 12 to 22AWG), 600V.

S-use connectors, Series GST18I, Type coupler and distribution block, rated 20A max, 600V.

S-use connectors, Series GST18I, Type PCB mount, rated 20A max, 600V.

Notes:

1.
Supplied as components, for the assembly of Certified electrical equipment, where the acceptability of the suitability of the combination is determined in the end use.

2.
These devices are certified for interrupting current for a voltage of 400 Vac maximum.

3.
Type number followed by suffixes indicating number of pole, terminal type, contact type with or w/o strain relief and with or w/o locking means, mounting means, configurations etc.

4.
The 5 pole types are intended for dimmer application.

Component type, modular, special use Plugs and Connectors, Series GST15I, for use with polymeric and rubber sheathed cable with outer diameter between 6 - 10 mm, 600 VAC, 16 A, 2 - 5 poles, 20-14 AWG, Type 2, Torque 0.79 Nm.

Notes:

1.
Supplied as components, for the assembly of Certified electrical equipment, where the acceptability of the suitability of the combination is determined CSA International.

2.
These devices are certified for interrupting current for a voltage of 250 VAC maximum.

3.
Type number followed by suffixes indicating number of pole, terminal type, contact type with or w/o strain relief and with or w/o locking means, mounting means, configurations etc.

4.
The 5 pole types are intended for dimmer application.

Component type, modular, special use Connection Blocks. Series GST15I, 600 VAC, 16 A, 3 pole.

Notes:

1.
Supplied as components, for the assembly of Certified electrical equipment, where the acceptability of the suitability of the combination is determined CSA International.

2.
These devices are certified for interrupting current for a voltage of 250 VAC maximum.

3.
Type number followed by suffixes indicating number of outputs, configurations etc.

· Special-Use Connectors and Plugs, multi-pole, with metal housings, Series:

Series	Ratings
70,0, Z5.572 and Z5.573	35 A, 600 V, 6 poles, for No. 8 AWG (screw terminals)
70.2, Z5.570 and Z5.57 l	35 A, 600 V, 6 poles, for No. 8 AWG (screw terminals)
70.3, 99.7xx.3719.x Z5.570 and Z5.571	16 A, 600 V, 6 up to 48 poles, for No. 12 AWG (screw terminals)
70.4	16 A, 600 V, 3 up to 32 poles, for No. 12 AWG (screw terminals)
70.5	16 A, 600 V, 6 up to 48 poles, for No. 12 AWG (screwless terminals)
70.7, Z5.570 and Z5.571	16 A, 600 V, 6 up to 48 poles, for Nos. 20 to 12 AWG (crimp terminals)
70.8	16 A, 600 V, 3 up to 32 poles, for No. 20 to 12 AWG (crimp terminals)
70.9	35 A, 600 V, 6 poles, for No. 8 AWG (screw terminals)
70.10, 70.11, Z5.572 and Z5.573	16 A, 600 V, 6 up to 48 poles, for No. 12 AWG (screw terminals)
70.12 and 70.13	16 A, 600 V, 3 up to 20 poles, for No. 12 AWG (screw terminals)
70.90 and 70.91	16 A, 600 V, 6 up to 48 poles, for No. 12 AWG (screw terminals)
70.92 and 70.93	16 A, 600 V, 3 up to 20 poles, for No. 12 AWG (screw terminals)
72.0	35 A, 600 V, 6 poles, for No. 8 AWG (screw terminals
72.2	35 A, 600 V, 6 poles, for No. 8 AWG (screw terminals) or 35 A, 600 V, 4 poles, for No. 8 AWG (screw terminals)
	16 A, 600 V, 6 poles, for No. 12 AWG (screw terminals)
	or 82 A, 600 V, 4 poles for No. 4 AWG (screw terminals) or
	100 A 600 V, 3 poles for No. 2 AWG plus

	40 A, 600 V, 3 poles for No. 6 AWG plus 16 A, 600 V, 6 poles for No. 12 AWG (screw terminals) or 40 A, 600 V, 6 poles, for No. 6 AWG plus 16 A, 600 V, 6 poles for No. 12 AWG (screw terminals) or 70 A, 600 V, 4 poles for No. 4 AWG plus 16 A, 600 V 2 poles for No. 12 AWG (screw terminals)
70...,71...,72..., 77...	16 A, 600 V 6 up to 48 poles for 14 AWG (screwless terminals)
99.729 and 99.730	82 A, 600 V, 4 poles, for 4 AWG (screw terminals)
72.3, Z5.570 and Z5.571	16 A, 600 V, 6 up to 48 poles, for No. 12 AWG (screw terminals)
72.7, Z5.570 and Z5.571	16 A, 600 V, 6 up to 48 poles, for No. 20 to 12 AWG (crimp terminals)
72.9	35 A, 600 V, 6 poles, for No. 8 AWG (screw terminals)
72.10, 72.11	16 A, 600 V, 6 up to 48 poles, for No. 12 AWG
99.707.0220 and 99.708.0220	35A, 600V, 6 poles, for 8 AWG (screw terminals)
99.711.0220 and 99.712.0220	20A, 600 V, 2 poles, for No. 12 AWG (screw terminals) or 82 A, 600 V, 2 poles for No. 4 AWG (screw terminals)

Housings, Series:

Series	Ratings
78	Enclosure Type 4X

Notes:

1. The series designations are followed by numbers; thus forming part number of housing, terminal, etc.

2. The connectors and plugs are not for interrupting current.

3. The crimp connections are to be made with submittor's hand or power operated crimping-tools.

4. The devices without strain relief are suitable for use inside cabinets etc. only.

5. The unassembled parts are sold only to manufacturers for assembly of Certified electrical equipment and are Certified only for use in equipment where the acceptability of the combination is to be determined by CSA Group.

6. On manufacturers request connector Series 70..., 72... and 73 (except for enclosures Cat. No. 76.3xx, 0753.x) were subjected to a

hose down test (as for 4, 4X Type enclosures).

7. On manufacturers request housing series 78 was successfully tested as Enclosure Type 4X. These housings shall be marked "Type 4X" or "Enclosure Type 4X".

Special use connectors with screw clamp connection, for PCB mounting, for solid and stranded insulated conductors:

Catalogue no.	Voltage [V]	Group	Current [A]	Wire range [AWG]	Torque [Nm]	Remarks
8142 Z/ ..	300	B,D	1.5	22-14 or 2x (22-16)	0.4	2-4 poles
8142 Z/ .. RF	300	B,D	1.5	22-14 or 2x (22-16)	0.4	2-4 poles
Z5.530.0225.0 to Z5.530.2425.0	300	B,D	10	-	-	pin-header, 2-24 poles
Z5.530.3225.0 to Z5.530.5425.0	300	B,D	10	-	-	pin-header, 2-24 poles

Notes:

1.
Certified as a component for use only where the suitability of the final combination is determined by CSA Group or another NRTL.

2.
Suffixes may be added to the Catalogue numbers, to denote color, number of terminals and other mechanical variations not affecting the electrical properties.

3.
Suffix OB may be added to the Catalogue numbers.

4.
Not approved for interrupting current.

5.
Marking on the pin-headers (catalogue no. Z5...) may be omitted with reference to DQD 311, sections 3.3/3.4 and DQD 535.01, if they are applied to the smallest packaging unit and the mating terminal blocks are marked appropriately.

Special use connectors, Series revos MINI, with metal housings, with crimp terminals for fine stranded and stranded wire:
revos MINI Q5: 5 poles, for 20-12 AWG, 16A, 600V;
revos MINI Q12: 12 poles, for 26-14 AWG, 10A, 600V.

Notes:

1.
Certified as a component for use only where the suitability of the final combination is determined by CSA Group or another NRTL.

2.
Suffixes may be added to the Catalogue numbers, to denote color and other mechanical variations not affecting the electrical properties.

3.
The connectors are not approved for interrupting current.

4.
The crimp connections are to be made with the submittors hand or power operated crimping-tools.

5.
Housings may be provided with certified cable glands, acceptance depends on evaluation of the end-use product.

TO THE REQUIREMENTS OF STD C22.2 NO 182.1-13

Component type, modular, special use Plugs, Receptacles and Cable connectors, Series “gesis IP+” types RST 50i4… and 50i5 For use with polymeric and rubber sheathed cable with outer diameters between 15 to 25 mm and 20 to 32 mm, for indoor or outdoor use in Ordinary Locations, enclosure TYPE 6P, Rated 250/400/600V, AC.

Electrical ratings for type RST50i4/5 are as follows:

Component	Connection	Torque (Nm)	No. of Poles	Wire size Solid (AWG)	Wire size Stranded (AWG)	max. current rating Types RST 16i.. (Note 7.)	Enclosure type designation
Cable Connector	S/MC	2.0	4 or 5	-	12-6	53 A	6P
Cable Connector	S/FC	2.0	4 or 5	-	12-6	53 A	6P
Cable Connector	WC/MC	-	4 or 5	-	12-6	53 A	6P
Cable Connector	WC/FC	-	4 or 5	-	12-6	53 A	6P
Device Connector	S/MC	2.0	4 or 5	-	12-6	53 A	6P
Device Connector	S/FC	2.0	4 or 5	-	12-6	53 A	6P
Device Connector	WC/MC	-	4 or 5	-	12-6	53 A	6P

Device Connector	WC/FC	-	4 or 5	-	12-6	53 A	6P

Legend:

FC' Socket = Female Connector, 'MC' Plug = Male Connector, 'S' = Screw, 'WC' = Wire Crimp.

'WC' Wire Crimp. 'N' Not applicable

Notes:

1. Certified as a component for use only where the suitability of the final combination is determined in the end use

2. Equipment may be identified by part number which has the form of 97.XXX.XXXX.X where X

is a decimal character.

3. Plugs and receptacles may consist of: either an insert containing the electrical contacts and a shrouding that forms an enclosure providing the degree of protection, or one factory assembled part.

4. Cable Connectors and receptacles may consists of: either an insert containing the electrical contacts with a housing that forms an enclosure providing the degree of protection, or one factory assembled part.

5. The degree of protection is fulfilled when a device is mated to its counterpart or to an end cap,

A dust cover may be used to prevent pollution.

6. The max. current rating of a device is the sum of the current through each circuit in the device. Conductors or cables in the device are not allowed to carry currents higher than their maximum rating as per Canadian Electrical Code.

7. The Plugs, Receptacles and Cable connectors are not for interrupting current. Accidental opening is prevented by a locking mechanism.

8. Cords shall be installed according CEC Part 1.

9. For use with copper conductors rated 75 ºC or higher.

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