

# Certificate of Compliance

Certificate: 1839052

Master Contract: 165750

Project: 2187577

Date Issued: July 13, 2009

Issued to: Wieland Electric GmbH  
Brennerstrasse 10-14  
96045 Bamberg  
GERMANY

*The products listed below are eligible to bear the CSA Mark shown*



Issued by: Z. Psarski

Authorized by: M.H.J. Hoendervangers  
Area Director, Europe



## PRODUCTS

CLASS 6233 01 – RECEPTACLES – Attachment Plug Type and Plugs

Component type, modular, special use Plugs, Connectors, Receptacles and Inlets, Series “gesis IP+” type 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:

| <u>Component</u>     | <u>Connection</u> | <u>Torque (Nm)</u> | <u>No. of Poles</u> | <u>Wire size Solid (AWG)</u> | <u>Wire size Stranded (AWG)</u> | <u>max. current rating Types RST 20i.. (Note 7.)</u> | <u>Enclosure type designation</u> |
|----------------------|-------------------|--------------------|---------------------|------------------------------|---------------------------------|--|-----------------------------------|
| Insert               | S/MC              | 0.8-1              | 2 or 3              | -                            | 20-12                           | 20 A   | *                                 |
| Insert               | S/FC              | 0.8-1              | 2 or 3              | -                            | 20-12                           | 20 A   | *                                 |
| Inlet                | S/MC              | 0.8-1              | 2 or 3              | 18-12                        | 20-12                           | 20 A   | TYPE 6P                           |
| Receptacle           | S/FC              | 0.8-1              | 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                           |

Certificate: 1839052



Master Contract: 165750

Project: 2187577

CSA INTERNATIONAL

Date Issued: July 13, 2009

|                           |       |         |        |       |       |      |         |
|---------------------------|-------|---------|--------|-------|-------|------|---------|
| Connector with fixed cord | WC/FC | -       | 3      | -     | 14    | 15 A | TYPE 6P |
| Splitter                  | FC/MC | -       | 3      | N     | N     | 20A  | TYPE 6P |
| End cap male              | N/A   | -       | -      | -     | -     | -    | TYPE 6P |
| End cap female            | N/A   | -       | -      | -     | -     | -    | TYPE 6P |
| Insert                    | S/MC  | 0.5-0.7 | 4 or 5 | -     | 18-12 | 20 A | *       |
| Insert                    | S/FC  | 0.5-0.7 | 4 or 5 | -     | 18-12 | 20 A | *       |
| Inlet                     | S/MC  | 0.5-0.7 | 4 or 5 | 18-12 | 18-12 | 20 A | TYPE 6P |
| Receptacle                | S/FC  | 0.5-0.7 | 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 | -     | 12    | 20 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 male              | N/A   | -       | -      | -     | -     | -    | TYPE 6P |
| End cap female            | 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 | Torque (Nm) | No. of Poles | Wire size Solid (AWG) | Wire size Stranded (AWG) | max. current rating Types RST 25i.. (Note 7) | Enclosure type designation |
|----------------|------------|-------------|--------------|-----------------------|--------------------------|--|----------------------------|
| Insert         | S/MC       | 0.8-1       | 3            | -                     | 12                       | 25 A   | *                          |
| Insert         | S/FC       | 0.8-1       | 3            | -                     | 12                       | 25 A   | *                          |
| Insert         | S/MC       | 0.5-0.7     | 5            | -                     | 12                       | 25 A   | *                          |
| Insert         | S/FC       | 0.5-0.7     | 5            | -                     | 12                       | 25 A   | *                          |
| Insert         | WC/MC      | -           | 5            | -                     | 12                       | 25 A   | *                          |
| Insert         | WC/FC      | -           | 5            | -                     | 12                       | 25 A   | *                          |
| End cap male   | N/A        | -           | -            | -                     | -                        | -  | TYPE 6P                    |
| End cap female | N/A        | -           | -            | -                     | -                        | -  | TYPE 6P                    |

Legend:

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

**Certificate:** 1839052

**Project:** 2187577



**Master Contract:** 165750

**Date Issued:** July 13, 2009

'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, 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 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 °C or higher.

**APPLICABLE REQUIREMENTS**

- |                                      |   |
|--------------------------------------|---|
| CSA Standard C22.2 No. 0-M91         | - General Requirements Canadian Electrical Code, Part II              |
| CSA Standard C22.2 No. 0.4-04        | - Bonding of Electrical Equipment                                     |
| CSA Standard C22.2 No. 94-M91(R2001) | - Special Purpose Enclosures  |
| CSA Standard C22.2 No. 182.1-02      | - Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type |

**PRODUCTS**

CLASS 6233 02 – RECEPTACLES – Special Use Connectors

**SUBJECT**

Component type, modular, special use Plugs, Connectors, Receptacles and Inlets, Series “gesis IP+” type RST 20i.. 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, Weatherproof (enclosure TYPE 6P), Rated 350V, AC (Type 2 devices).

Electrical ratings for type RST20i.. are as follows:

| <u>Component</u>          | <u>Connection</u> | <u>Torque (Nm)</u> | <u>No. of Poles</u> | <u>Wire size Solid (AWG)</u> | <u>Wire size Stranded (AWG)</u> | <u>max. current rating Types RST 20i..</u> | <u>Enclosure type designation</u> |
|---------------------------|-------------------|--------------------|---------------------|------------------------------|---------------------------------|--|-----------------------------------|
| Insert                    | S/MC              | 0.8-1              | 2 or 3              | -                            | 20-12                           | 20 A                                       | *                                 |
| Insert                    | S/FC              | 0.8-1              | 2 or 3              | -                            | 20-12                           | 20 A                                       | *                                 |
| Inlet                     | S/MC              | 0.8-1              | 2 or 3              | 18-12                        | 20-12                           | 20 A                                       | TYPE 6P                           |
| Receptacle                | S/FC              | 0.8-1              | 2 or 3              | 18-12                        | 20-12                           | 20 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                               | 20A  | TYPE 6P                           |
| End cap male              | N/A               | -                  | -                   | -                            | -                               | -  | TYPE 6P                           |
| End cap female            | N/A               | -                  | -                   | -                            | -                               | -  | TYPE 6P                           |
| Insert                    | S/MC              | 0.5-0.7            | 4 or 5              | -                            | 18-12                           | 20 A                                       | *                                 |
| Insert                    | S/FC              | 0.5-0.7            | 4 or 5              | -                            | 18-12                           | 20 A                                       | *                                 |
| Inlet                     | S/MC              | 0.5-0.7            | 4 or 5              | 18-12                        | 18-12                           | 20 A                                       | TYPE 6P                           |
| Receptacle                | S/FC              | 0.5-0.7            | 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                           |

Certificate: 1839052



Master Contract: 165750

Project: 2187577

CSA INTERNATIONAL

Date Issued: July 13, 2009

|                |       |   |        |    |    |      |         |
|----------------|-------|---|--------|----|----|------|---------|
| 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 | -  | 12 | 20 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 male   | N/A   | - | -      | -  | -  | -    | TYPE 6P |
| End cap female | 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.

Notes:

1. Equipment is subject to investigation in the end use.
2. Equipment may be identified by part number which has the form of 99.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, 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 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 certified for interrupting current. Accidental opening may be 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.

**APPLICABLE REQUIREMENTS**

CSA Standard C22.2 No. 0-M91

- General Requirements Canadian Electrical Code, Part II

CSA Standard C22.2 No. 0.4-04

- Bonding of Electrical Equipment

CSA Standard C22.2 No. 94-M91(R2001)

- Special Purpose Enclosures

CSA Standard C22.2 No. 182.3-M1987

- Special Use Attachment Plugs, Receptacles, and Connectors



CSA INTERNATIONAL

## *Supplement to Certificate of Compliance*

**Certificate:** 1839052

**Master Contract:** 165750

*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

---

| <b>Project</b> | <b>Date</b>        | <b>Description</b>  |
|----------------|--------------------|---|
| 2187577        | July 13, 2009      | Update to report 1839052 to cover correction of current rating, uprate of 4 & 5-pole SC types to 18A(12AWG), additional certification of the type RST20i types for current interruption, under Class 6233 02. |
| 2030736        | April 10, 2008     | Administrative corrections regarding end caps, type number explanations, current rating of the 4 and 5 pole Inserts.  |
| 1839052        | November<br>6,2006 | Original certification of type RST20i.. and RST 25i.. plugs, connectors, receptacles and inlets.  |