

DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component Connector, GPS 10128 Series,

Model Housing 1971598-1 may be with terminals 177914-1, 177914-2, 177915-1, 177915-2, 179592-1, 179592-2, 179593-1 or 179593-2.

Model Housings 1971599-1, 1971600-1 and 1971611-1 may be with terminals 177916-1, 177917-1, 179594-1 or 179595-1.

GENERAL:

These devices are multi-pole connectors intended for factory where the acceptability of combinations is determined by Underwriters Laboratories Inc. The devices are identified as follows:

USR indicates investigation to United States Standards, UL 1977.

CNR indicates investigation to Canadian National Standards, C22.2 No. 182.3.

RATINGS:

| Housing Cat. No. | Terminal Cat. No. | Wire (AWG) | Voltage Rating, V (ac) | Current Rating, A |
|------------------|---|------------|------------------------|-------------------|
| 1971598-1 | 177914-1, 177914-2, 179592-1, 179592-2 | 26 | 300 | 2 |
| | | 24 | | 2 |
| | | 22 | | 2 |
| | 177915-1, 177915-2, 179593-1, 179593-2 | 20 | | 5 |
| | | 18 | | 5 |
| | | 16 | | 7 |
| 1971600-1 | 177916-1, 179594-1 | 26 | 300 | 2 |
| | | 24 | | 2 |
| | | 22 | | 2 |
| | 177917-1, 179595-1 | 20 | | 5 |
| | | 18 | | 5 |
| | | 16 | | 7 |
| 1971599-1 | 177916-1, 179594-1 | 26 | 300 | 2 |
| | | 24 | | 3 |
| | | 22 | | 4 |
| | 177917-1, 179595-1 | 20 | | 7 |
| | | 18 | | 7 |
| | | 16 | | 9 |

RATINGS (Cont'd):

| Housing Cat. No. | Terminal Cat. No. | Wire (AWG) | Voltage Rating, V (ac) | Current Rating, A |
|---------------------|-----------------------|---------------|---------------------------|----------------------|
| 1971611-1 | 177916-1, 179594-1 | 26 | 300 | 4 |
| | | 24 | | 4 |
| | | 22 | | 5 |
| | 177917-1, 179595-1 | 20 | | 8 |
| | | 18 | | 8 |
| | | 16 | | 10 |

Disconnecting Use - see Sec Gen for required marking.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - The following are among the considerations to be made when evaluating the device in the end-use product.

Interruption of Current

1. These devices are not suitable for interrupting the flow of current by connecting or disconnecting the mating connector.

Current-Carrying Capability and Current Ratings

2. These devices have been subjected to the Temperature test with the rated currents and maximum temperature values tabulated below.

| Housing Cat No. | Terminal Cat. No. | Current, A | Wire Size, AWG | Maximum Temperature, °C | Maximum Temperature rise, °C |
|-----------------|-------------------|------------|----------------|-------------------------|------------------------------|
| 1971598-1 | 177915-1 | 7 | 16 | 46.8 | 21.8 |
| | | 5 | 20 | 46.3 | 21.3 |
| | 177914-1 | 2 | 26 | 38.6 | 13.6 |
| 1971600-1 | 177917-1 | 7 | 16 | 46.8 | 21.8 |
| | | 5 | 20 | 46.3 | 21.3 |
| | 177916-1 | 2 | 26 | 38.6 | 13.6 |
| 1971599-1 | 177917-1 | 9 | 16 | 41.7 | 16.7 |
| | | 7 | 20 | 49.6 | 24.6 |
| | 177916-1 | 4 | 22 | 41.0 | 16.0 |
| 1971611-1 | 177917-1 | 10 | 16 | 38.8 | 13.8 |
| | | 8 | 20 | 39.1 | 14.1 |
| | 177916-1 | 5 | 22 | 33.8 | 8.8 |
| | | 4 | 26 | 37.0 | 12.0 |

Insulating Materials

3. These devices employ insulating materials with properties as tabulated below at the minimum thickness employed in the connector housing, the suitability of the insulating materials based on the documented values shall be determined in the end-use application. Please note the values specified in the table when multiple materials are indicated represent the minimum values for the group of materials.

| Housing Cat. No. | Insulating Material (#) | Measured Minimum Thickness | Flame Class | HWI | HAI | RTI Elec | RTI Str | Max Operating Temp, °C |
|---|-------------------------|----------------------------|-------------|-----|-----|----------|---------|------------------------|
| 1971598-1, 1971600-1, 1971599-1, 1971611-1 | A for Body | 0.4 | V-0 | - | - | 65 | 65 | 65 |

(#) - Code for Insulating Body Material.

A.

1. Dielectric strength (kV/mm): -
2. CTI: 2

Terminations

4. These devices are not suitable for use other than the wire ranges as tabulated below:

| Housing Cat. No. | Terminal Cat. No. | Wire (AWG) |
|------------------------------------|---|------------|
| 1971598-1 | 177914-1, 177914-2, 179592-1, 179592-2 | 26 |
| | | 24 |
| | | 22 |
| | 177915-1, 177915-2, 179593-1, 179593-2 | 20 |
| | | 18 |
| | | 16 |
| 1971599-1, 1971600-1, 1971611-1 | 177916-1, 1779594-1 | 26 |
| | | 24 |
| | | 22 |
| | 177917-1, 1779595-1 | 20 |
| | | 18 |
| | | 16 |

Miscellaneous

5. The enclosure of the device has live parts that may be exposed to user contact when the connector is energized. The device is suitable for use only within an acceptable enclosure.
6. Crimp contacts are intended for crimp termination on stranded copper

conductor using the tooling shown in Ill.9. (For information purposes only).