

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component quick-connect connectors for copper alloy tabs,
Cat. Nos. 0-1544497-1, 0-1544497-3, 0-1544515-1, 0-1544515-2,
0-1544291-1, 0-1544291-2, 0-1544291-7, 0-1544515-3,
0-1544291-3, 0-1544291-4, 0-1544545-1, 0-1544545-2,
0-1544545-3, 0-1544545-5, 0-1544545-7, 0-1544545-8,
0-1544248-2, 0-1544247-3, 0-1544248-3, 0-1544113-3,
0-1544114-1, 0-1544114-3, 0-1544322-1, 0-1544323-1,
0-1544323-4, 0-1544114-2, 0-1544322-3, 0-1544322-4,
0-1544323-2, 0-1544323-3, 0-1544121-1, 1-1544545-2

Insulator Cat. Nos. 0-1544537-3 & -4, 0-1544376-3,
0-1544537-5 & -6, 0-1544408-1 to -9, 1-1544408-1 & -2, 0-
1544456-1 & -2, 0-1544373-1 and 0-1544101-4.
Refer to ILLS. 1 through 5, ILL. 19 and ILL. 27.

GENERAL CHARACTER AND USE:

The products covered are female type quick-connect connectors intended for factory assembly on No. 24-14 AWG stranded copper wire using this manufacturer's hand or automatic power tooling. They are intended for use in equipment where strain relief is provided. The quick-connect connectors are for use on the following copper alloy production tabs, not covered by this Report, copper wire sizes, and Power Tool Proner AP68 or Hand Tool 11290, or the Electro-Mechanical Tools, MECAL or SMCN or the Kormak Tool No. 262150.

The insulated connectors are rated 60°C, 300 V maximum.

<u>Cat. No.</u>	<u>AWG Wire Size</u>	<u>No. of Strands</u>	<u>Mates With Male Tab-Size</u>
0-1544291-1, 0-1544291-3, 0-1544291-7,	20 - 16	10/26	0.187 by 0.020 in. (4.75 by 0.5 mm)
0-1544515-1, 0-1544515-3	22	7/16	0.187 by 0.020 in. (4.75 by 0.5 mm)
0-1544291-2, 0-1544291-4, 0-1544248-2, 0-1544248-3	20 - 16	10/26	0.187 by 0.032 in. (4.75 by 0.8 mm)
0-1544545-1, 0-1544545-3, 0-1544545-7	24	7/16	0.110 by 0.020 in. (2.8 by 0.5 mm)
0-1544545-2, 0-1544545-5, 1-1544545-2	24	7/16	0.110 by 0.032 in. (2.8 by 0.8 mm)
0-1544545-8	24 - 18	7/16	0.110 by 0.032 in. (2.8 by 0.8 mm)
0-1544247-3	24 - 20	7/16	0.187 by 0.032 in. (4.75 by 0.8 mm)
0-1544121-1	20 - 16	10/26	0.110 by 0.020 in. (2.80 by 0.5 mm)

<u>Cat. No.</u>	<u>AWG Wire Size</u>	<u>No. of Strands</u>	<u>Mates With Male Tabs-Size</u>
* 0-1544515-2 0.032 in.	22 - 18	7/16	0.250 by (6.35 by 0.8 mm)
* 0-1544497-1, 0-1544497-3, 0-1544323-4 in.	18 - 14	16/41	0.250 by 0.032 (6.35 by 0.8 mm)
* 0-1544113-3, 0-1544322-1, 0-1544322-4, in.	20 - 16	10/26	0.250 by 0.032 (6.35 by 0.8 mm)
* 0-1544323-1, 0-1544323-2, 0-1544323-3, in.	16 - 14	26/41	0.250 by 0.032 (6.35 by 0.8 mm)
0-1544114-1, 0-1544114-3, 0-1544114-2 in.	16	10/26	0.250 by 0.032 (6.35 by 0.8 mm)

Insulators - The following insulators are intended for use with the respective quick-connect connectors:

<u>Insulator Cat. No.</u> <u>(With or Without Suffix Nos.)</u>	<u>Quick-Connect Connector Cat. No.</u> <u>(With or Without Prefix and/or Suffix Nos.)</u>
*	0-1544291-1, 0-1544291-3
0-1544456-1 & -2	0-1544322-1, 0-1544323-1, 0-1544322-3, 0-1544323-2
0-1544376-3	0-1544291-1, 0-1544291-3, 0-1544291-7, 0-1544291-2, 0-1544291-4, 0-1544291-7
0-1544373-1	0-1544545-1, 0-1544545-3, 1-1544545-2
0-1544101-4	0-1544545-1, 0-1544545-3, 1-1544545-2

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

Use - The devices are for use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

CNR indicates additional evaluation to Canadian Standard C22.2 No. 153, Quick-Connect Terminals.

Conditions of Acceptability -

1. These devices are not to be used for current interruption.
2. These devices are for internal wiring only in electrical equipment.
- * 3. Due to the locking design of quick-connect connector Cat. No. 0-1544291-1, 0-1544515-3, 0-1544291-3, each with or without prefix or suffix numbers withdrawal force measurements were not considered applicable. These connectors are intended for use with male tabs employing holes.

4. Quick-connect connector Cat. Nos. 0-1544545-1, 0-1544545-3, 1-1544545-2, 0-1544322-1, 0-1544323-1, 0-1544322-3, 0-1544323-2, each with or without prefix or suffix numbers do not meet the minimum withdrawal values for the Engagement-Disengagement Test, UL 310, Fourth Edition. Additional mechanical securing means in the end product shall be an end-user consideration.

5. The connectors have a maximum rating of 60°C and 300 V.

6. The connectors are intended to be assembled to the wire using power tooling, Proner AP68 or hand tooling, Proner 11290 the Electro-Mechanical Tool MECAL or SMCM or No. 262150. Crimping instructions must be provided for hand tool assembly in the end-use application.

7. Cat. Nos. 0-1544545-1, 0-1544545-2, 0-1544545-3, 0-1544545-5, 1-1544545-2 and 0-1544545-7 are suitable only for use with No. 24 AWG copper conductors.

8. Cat. Nos. 0-1544515-1 and 0-1544515-3 are suitable for use only with No. 22 AWG copper conductors.

9. Cat. Nos. 0-1544114-1, 0-1544114-3, and 0-1544114-2 are suitable for use only with No. 16 AWG copper conductors.

10. Cat. No. 0-1544376-3 has a maximum rating of 125°C and 300 V.