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Project 90ME18862

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REPORT

on

COMPONENT - QUICK-CONNECT TERMINALS

AMP Inc.
Harrisburg, PA

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DESCRIPTION

PRODUCT COVERED:

USR - Component noninsulated quick-connect connectors for nickel plated steel tabs, Faston Flag Series 250 Cat. Nos. 1217876-1, 42404-1, 63604-1 and Series 187 Cat. No. 61945-2, 1742899-1.

USR - Component noninsulated quick-connect connectors for brass tabs, Faston Flag Series 187, Cat. Nos. 42373-3, 42486-3, 60621-1, 63850-1, 63959-1, 63696-1.

USR - Component noninsulated quick-connect connectors for steel and copper alloy tabs, Faston Flag Series 250, Cat. Nos. 63963-1, 1742460-1, 1742543-1, 1742626-1.

USR, CNR - Component noninsulated quick-connect connectors for steel and copper alloy tabs, Faston Flag Series 187, Cat. Nos. 1742841-1, **1742883-1, 2238041-1**.

USR, CNR - Component noninsulated quick-connect connectors for steel and copper alloy tabs, Faston Flag Series 250, Cat. Nos. 2286377-1, 2238142-1 and 63901-3.

USR, CNR - Component noninsulated quick-connect connectors for steel and copper alloy tabs, Faston Series 250, Cat. No. 2238143-1.

USR, CNR - Component noninsulated quick-connect connectors for copper alloy tabs, Faston Series 250, Cat. No. 2238045-2.

GENERAL CHARACTER AND USE:

The products covered are noninsulated quick-connect connectors intended for factory assembly on stranded copper wire using this manufacturer's 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 production tabs, not covered by this Report and copper wire sizes.

Cat. No.	Stranded Copper Wire Size (AWG)	No. of Strands	Mates With Male Tabs - Size
42404-1, 1742460-1	Nos. 18-12	#	.250 x .032 in
42373-3, 42486-3,	No. 20	#	.187 x .020 in
60621-1, 63850-1,			
63959-1, 63696-1.			
63604-1	No. 18-12	#	.250 x .032 in
1742543-1	No. 18-14, 2 No. 18, 1 No. 16 with 1 No. 18	#	.250 x .032 in
61945-2, 1742899-1	No. 16-18	#	.187 x .020 in
1217876-1	2 No. 14	#	.250 X .032 in
1742626-1	(2) 14AWG, (2) 16AWG, (1) 14AWG + (1) 16AWG	#	.250 X .032 in
63963-1	No. 16-18, (2) No. 18	#	.250 X .032 in
1742841-1	20 - 16	#	.187 x 0.020 in
1742883-1	20 - 16	#	.187 x 0.032 in
2286377-1	22 - 18	#	.250 X .032 in
2238045-2	22 - 18	#	.250 X .032 in
2238142-1	22 - 16	#	.250 X .032 in
2238143-1	22 - 18	#	.250 X .032 in
63901-3	18 - 16	#	.250 X .032 in
2238041-1	20 - 16	#	.187 x 0.032 in

Wire Stranding as follows:

No. 22 AWG - 7 strands
 No. 20 AWG - 10 strands
 No. 18 AWG - 16 strands
 No. 16 AWG - 26 strands
 No. 14 AWG - 41 strands
 No. 12 AWG - 65 strands

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

These devices are for use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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Conditions of Acceptability -

1. These devices are not to be used for current interruption.
2. These devices are for use where strain relief is provided as part of the equipment.
3. These devices are for internal wiring only in electrical equipment.
4. Faston Flag Series 250 Cat. Nos. 1217876-1, 42404-1, 63604-1 and Series 187 Cat. Nos. 61945-2, 1742899-1 are intended for use only with the nickel plated steel mating tabs only. Faston Flag Series 250, Cat. Nos. 63963-1, 1742460-1, 1742543-1, 1742626-1, 2286377-1, 2238142-1, 63901-3, and Series 187, Cat. Nos. 1742841-1, 1742883-1 are intended for use with steel or copper alloy tabs. Faston Series 250, Cat. No. 2238143-1 is intended for use with steel or copper alloy tabs. All other connectors are intended for use with brass tabs.
5. Cat. No. 42404-1, 1742460-1 and 61945-2 are intended to be assembled to the wire using power tooling, AMP Inc. Type F tooling. Cat. No. 63963-1 is intended to be assembled to the wire using Tool HDM 680613-1 incorporating Crimper 904236-1 and anvil 8-238005-3. Cat. No. 1742543-1 is assembled using AMP Inc. Type 1852633 tool with crimper 690587-1 and anvil 690575-1. All other connectors are assembled with the Mini-Style Applicator manufactured by AMP Inc. Cat. No. 2286377-1 is intended for installation with applicator 466725 with die 464112-5 and anvil 8-238005-8 manufactured by Tyco Electronics.
6. Cat. No. 2238045-2 is intended to be assembled to the wire using power tooling, TE, with Crimping applicator P/N is 2150663-*
7. Cat. Nos. 2238142-1 and 228143-1 are intended to be assembled to the wire using power tooling Applicator 567372-2 for Cat. No. 2238142-1 and Applicator 2150030-1 for Cat. No. 228143-1.
8. These devices are for use only in equipment where steel is acceptable for current-carrying parts
9. Cat. No. 63901-3 is intended to be assembled to the wire using power tooling, TE, with Crimping applicator P/N is *-2150382-*