File E66717
Project 90ME15742

October 10, 1990

REPORT

on

QUICK-CONNECT TERMINALS

AMP, Inc.
Harrisburg, PA

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DESCRIPTION

PRODUCT COVERED:

USL, Insulated copper alloy quick-connect connector for copper alloy or steel tabs, Series ULTRA-POD, Cat. Nos. 1969447-1, 1-1969529-1, 520963-01, -2, 520971-1, -2, -3, -4, 520973-1, -2, 520974-1, -2, 520982-1, -2, -8, 520986-1, 520988-1, -2, **-3**, -4 521011-2, 521114-1, 521118-2, 521046-1, 521050-1,-2, 521058-1, 521081-1, 521084-2, 521086-1, 521094-1, 5-521094-1, 521293, 521228-1, 521228-2, 521149-2, 521225-1, -2, 521282-1, -2, 521284-1, -2, 521366-1, -2, 521367-1, -2, 521368-1, -2, 521347, 521408-2, 521411-1,-2, 521547-1, 521637-1, -2, 521632-1, -2, 521112-1, -2, 521633-1, -2, 521470-1,-2 521596-1,-2, 521716 –1 –2,-3, -4, 521722-1,-2, 521723-1,-2, 521567-2, 521600-1,-2, 521451-1,-2, 521586-1,-2, 521830-2, 521848-1, -2, -3, 521973-2, 521583-2, 1969161-5, 521997-3, 521998-3, 1969106-3, 1969107-3, 1969133-3, 1969109-3, 1969110-3, 521995-3.

USL - Insulated copper alloy quick-connect connector for copper alloy tabs, models 521597-1, 2; 521601-1, -2; 521471-1, -2; 521599-1,-2, 521436-2, 521437-2.

USL, Insulated copper alloy tab for copper alloy quick-connect connectors, series ULTRA-POD, Cat. No. 521217-1, -2, 521227-1, -2.

GENERAL CHARACTER AND USE:

The products covered are quick-connect connectors and quick-connect tabs intended for assembly of No. 22 to No. 10 AWG stranded copper wire using this manufacturer's power tools. They are intended for factory wiring only. They are for use on stranded copper wire as noted below. For specific wire size and tab size refer to Ills. 5-7, 9, 10-16, 26-36. For ratings for models 521597-1, -2; 521601-1,-2; 521471-1, -2; 521599-1,-2 see table below.

Wire Size (AWG)	No. of Strands
22	7
20	10
18	16
16	26
14	41
12	65
10	105

All of the above insulated connectors are rated 150°C, 600 V max building wire (1000 V max in signs or fixtures).

Products designated USL have been investigated using requirements contained in the Standard for Electrical Quick Connect Terminals, UL 310.

RATINGS:

The following quick-connect connectors are for use on the following copper wire sizes, copper alloy production tabs, using the specified tooling.

Cat. No.	Wire Range, AWG	No. of Strands	Mates With Male Tabs - Size	Power Tooling
521597-1,-2;	14-18, (2) No. 20 (2) No. 18	As noted above	.187 x .020	AMP Type F using die 1385724
521471-1,-2	(1) No. 14-18, (2) No. 18, (2) No. 20	As noted above	.187 x .020	AMP Type F using die 1385724
521601-1,-2; 521599-1,-2	(1) No. 14-18, (2) No. 18, (2) No. 20	As noted above	.187 x .032	AMP Type F using die 1385724
521436-2, 521437-2	22-18	As noted above	2.8 x 0.8	AMP Type F using die 1385724
1969529-1	18-14	As noted above	0.250 X 0.032	AMP Type F using tool 852293.
1969161-5	18 - 22	As noted above	0.250 x 0.032	AMP Type F using tool 1852889