

File E60677
Project 05ME13523

November 30, 2005

REPORT

On

COMPONENT - TERMINAL BLOCKS

AMP Inc.
Harrisburg, PA

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Terminal Blocks, Cat. Nos. 520942-1, 520942-2, 521188-1, 1743067-1, 1743067-2, 1743067-3, **2238272**.

* USR - Investigated for compliance with the United States Standard - UL 1059, the Standard for Terminal Blocks, **Fifth Edition dated June 23, 2020**.
CNR - Investigated for compliance with Canadian National Standard - C22.2 No. 158-1987, the Standard for Terminal Blocks, **Third Edition dated March 1, 2010 (Reaffirmed 2019)**.

GENERAL CHARACTER AND USE:

The terminal blocks covered by this report consist of an insulating base and Recognized Component AMP power pressure terminal connectors with crimp type ring and terminals.

Application -

Commercial appliances such as business and EDP equipment, etc.

Terminal Type -

Front (Line) Back (Load)

Pressure Wire Connector Crimp barrel

Type Wiring - Factory and field wiring.

RATINGS:

*

| Cat. Nos. | Max Voltage (V) | Max Current (A) | Wire Range (AWG-Copper) | Torque (lb-in) |
|---|-----------------|-----------------|-------------------------|----------------|
| 520942-1, 520942-2, 521188-1, 1743067-1, 1743067-2, 1743067-3 | 300 | 32 | No. 6-14 str | 45 |
| 2238272 | 250 | 32 | No. 6-14 str | 45 |

NOTE: Wire range references the wire range of the wire connecting directly to the terminal block. The wire range for the crimp on the terminal is outlined below. The current will be limited by the smaller wire, either the connecting wire or the crimped wire.

- The crimp barrel terminals of electrical terminal Cat. Nos. 520869-1, 520893, 520936-1, 520937-1, 520989-1, 20990-1, 520993-1, 520994-1, 521305-1, 521665-2, 521844, 521843, 521666-2, 1969101-1 and 1969102-1 are intended for No. 16-12 AWG copper stranded wires using AMP, Inc. "Mini-Applicator" automatic crimp tooling, No. 567253-2.

2. The crimp barrel terminals of electrical terminal Cat. Nos. 520346-1, 1217851, 520347-1, 520347-2, 521844, 520892-1, 520940-1, 520941-1, 520943-1, 520944-1, 521665-2, 521843 are intended for No. 18-12 AWG copper stranded wires using Amp, Inc. "Mini-Applicator" automatic crimp tooling No. 567253-2.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

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

Conditions of Acceptability -

1. The crimp barrel terminals of all devices are to be factory wired only.

2. The insulating bodies **of all devices except for 2238272** are molded of Recognized Component (QMFZ2) polymeric materials, as specified in the following tabulation. The use of these materials shall be judged in the end use application.

| | |
|------------|------------|
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |

The above materials may be used interchangeably at 130°C operating temperature.

3. The tightening torque for field wiring pressure wire connector terminals is recorded in the ratings section of this report. This torque value shall be marked on the end-use product for those categories which require torque markings for field terminated conductors.

4. The pressure terminal connectors of all devices are suitable for field wiring applications.

5. Nos. 6-8 AWG stranded wires may be inserted into the pressure terminal connectors of all devices in a manner that approximately half of the strands are captivated on each side of the terminal screw, or with all strands captivated on one side of the pressure terminal screw.

6. The bonding strap connected at the center pole terminal has not been investigated.

7. The suitability of lead wires connected to the crimp barrel terminals shall be determined in the end use equipment.

8. All terminals **except for 2238272** shall be used in combination with base Cat. No. 520942-1 or 520942-2.