



CSA INTERNATIONAL

# Certificate of Compliance

Certificate Number: LR 7189A-539

Revision: LR 7189C-997

Date Issued: May 6, 1999

Issued to: AMP Incorporated  
MS 290-15  
P.O. Box 3608  
Harrisburg, PA 17105  
U.S.A.  
Attention: Mr. Kevin G. Chavey

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators "▲" and NRTL/C*



Issued by: B. Wright, Technologist

Signature:

## PRODUCTS

CLASS 6233 01 - RECEPTACLES - Attachment Plug Type and Plugs

CLASS 6233 81 - RECEPTACLES - Attachment Plug Type and Plugs - CERTIFIED TO U.S. STANDARDS

S-use 2.36mm Pin Dia. Connectors, receptacles Series 170906, 171108, 171111, 171156, 171157, 171158, 171159, 171160, 171165, 171195, 171361, 171722, rated 7A (18 AWG), 4A (20 AWG), 3A (22 AWG), 1.5A (24 AWG), 250V and headers Series 85015, rated 9A (18, 20 AWG), 6.5A (22 AWG), 5.5A (24 AWG), 250V.

## APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 182.3-M1987 - Special Use Attachment Plugs, Receptacles, and Connectors  
ANSI/UL Std No. 498 - Attachment Plugs and Receptacles

The "NRTL/C" indicator adjacent to the CSA Mark signifies that the product has been evaluated to the applicable ANSI/UL and CSA Standards, for use in the U.S. and Canada. NRTL, i.e. Nationally Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



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## *Supplement to Certificate of Compliance*

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P.O. Box 3608  
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Attention: Mr. Kevin G. Chavey

*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

**Issued By:** B. Wright, Technologist

**Signature:**

A handwritten signature in cursive script, appearing to read 'B. Wright', written over a horizontal line.

### Product Certification History

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Revision	Date	Description
-997	Apr. 16, 1999	Add alternate body material
-746	Jan. 24, 1996	Update to Report -539 to add Series 170XXX, 171XXX (Part B).
-539	Aug. 10, 1994	Original Certification



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# Descriptive and Test Report

Standards  
Development

QMI  
Management Systems Registration

Certification  
and Testing

**REPORT NO:** LR 7189A-539

**Edition 1:** August 10, 1994; Application No LR 7189A-539 - Etobicoke  
Issued by M.W. Gryschuk, C.E.T.

**Edition 2:** January 24, 1996; Application No LR 7189A-746 - Etobicoke  
Issued by M.W. Gryschuk, C.E.T.

Pages Replaced: Report Re-Issued  
Figures Added: 2 to 8

**Edition 3:** May 6, 1999; Application No LR 7189C-997- Etobicoke  
Issued by B. Wright, Technologist

Pages Replaced: Report Re-Issued

Contents: Certificate of Compliance - Pages 1 to 1  
Supplement to Certificate of Compliance - Page 1  
Description and Tests - Page 1 to 4  
Figures - Figs 1 to 8

## PRODUCTS

CLASS 6233 01 - RECEPTACLES - Attachment Plug Type and Plugs  
CLASS 6233 81 - RECEPTACLES - Attachment Plug Type and Plugs

S-use 2.36mm Pin Dia. Connectors, receptacles Series 170906, 171108, 171111, 171156, 171157, 171158, 171159, 171160, 171165, 171195, 171361, 171722, rated 7A (18 AWG), 4A (20 AWG), 3A (22 AWG), 1.5A (24 AWG), 250V and headers Series 85015, rated 9A (18, 20 AWG), 6.5A (22 AWG), 5.5A (24 AWG), 250V.

**We Answer With Solutions**

178 Rexdale Boulevard, Toronto, ON, Canada M9W 1R3  
Telephone: 416.747.4000 Fax: 416.747.4149 Website: [www.csa-international.org](http://www.csa-international.org)

### MARKINGS

The submitter's name, tradename, or registered trademark is marked on each device, where practicable, in a permanent manner. The CSA Monogram is moulded or permanently stamped on each connector. The catalogue designation, complete electrical ratings, whether ac or dc (if restricted), and the statements: "CAUTION: NOT FOR INTERRUPTING CURRENT" and "ATTENTION: NE PAS UTILISER POUR COUPER LE COURANT" are permanently marked on each device or in or on the smallest unit container or carton. The letters "NRTL/C" may appear adjacent to the CSA Mark.

### ALTERATIONS

See "Markings" above.

### FACTORY TESTS

None

### DESCRIPTION

#### Conditions of Acceptability

1. These are Certified only for supply to manufacturers, as components, for the assembly of Certified electrical equipment, where the suitability of the combination is determined by the Canadian Standards Association.
2. Not for interrupting current.
3. Prefixes and suffixes may be added to the above Series to denote variations such as: contact plating, colour, the number of circuits, etc. which do not affect the electrical performance of the devices.

App LR 7189C-997: Covers addition of alternate body material

App LR 7189A-746: Covers additional connectors, Series 170XXX and 171XXX (Part B).

App LR 7189A-539: Original certification.

#### Part A - Series 85015

General: Header connectors Series 85015 are for use with Nos 18-24 AWG wires, see Fig 1.

1. Body: Moulded from the materials below, for shape and dimensions see Fig 1.

<u>Type</u>	<u>Designation</u>	<u>Manufacturer</u>	<u>UL Flame Class</u>	<u>UL RTI Mech W/O Imp</u>	<u>UL CTI</u>
a)			94V-0, 1.47mm	95C, 1.47mm	250-399V
b)			94V-1, 1.47mm	110C, 1.47mm	400-599V
c)			94V-1, 1.47mm	95C, 1.47mm	400-599V
d)			94V-0, 0.79mm	120°C, 0.79mm	600V+
e)			94V-0, 0.76mm	150°C, 0.79mm	

2. Contacts: Copper alloy, copper undercoated and tin-lead plated, approx 2.36mm dia, for shape and dimensions see Fig 1.

Part B - Series 170XXX and 171XXX

General: Receptacle connectors Series 170XXX and 171XXX, for use with Nos 18-24 AWG wires, are the same as previously Certified in Report LR 7189-77 (Sub-Report LR 38721-18), however they were added to this report to combine the entire Series. A complete description is as follows, see Figs 2 to 8.

1. Housing: Moulded from the above materials in Part A , for shape and dimensions see Figs 2 to 5.
2. Contacts: Copper alloy, plated, approx 0.25mm thick.
  - a) P/N 170073 (for Nos 20-24 AWG), see Fig 6.
  - b) P/N 170220 (for Nos 20-24 AWG), see Fig 7.
  - c) P/N 172792 (for Nos 18-22 AWG), see Fig 8.