



Certificate of Compliance

Certificate: 1212210 (LR 7189-308)

Master Contract: 164196

Project: 1731057

Date Issued: November 9, 2005

Issued to: Tyco Electronics Corporation

2100 Paxton St
Harrisburg, PA 17111
USA
Attention: Mr. Cal Reed

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Mike W. Gryschuk, C.E.T.

Authorized Nick Alfano, Operations Manager
by:

A handwritten signature in black ink, appearing to read 'N. Alfano'.

PRODUCTS

CLASS 6233 01 - RECEPTACLES - Attachment Plug Type and Plugs

CLASS 6233 81 - RECEPTACLES - Attachment Plug Type and Plugs - Certified to US Standards

S-use connectors Series MTA-100, rated 5A, 250V; and Series MTA-156, rated 7A, 600V.

APPLICABLE REQUIREMENTS

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

ANSI/UL Std No. 1977 - Component Connectors for Use in Data, Signal, Control and Power Applications



Supplement to Certificate of Compliance

Certificate: 1212210

Master Contract: 164196

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

Product Certification History

Project	Date	Description
1731057	Nov 9, 2005	One alternate body material (item 1t).
1709266	Sep 6, 2005	One alternate body material (item 1s).
1572467	Jul 26, 2004	Add alternate body material 5010GN1-15 (50% Max Regrind), see (Item 1r).
1369489	Oct 9, 2002	One alternate body material (items 1a)

History

1212210	2001/06/01	Two alternate body materials (items 1h, 1i).
-994	1999/05/06	Increase the voltage rating of Series MTA-156 to 600V.
-735	1996/01/22	Add Series MTA-156.
-308	1991/09/18	Original Certification, Series MTA-100.

MASTER CONTRACT: 164196

REPORT: 1212210

PROJECT: 1731057

Edition 1: September 18, 1991; Application No LR 7189-308 - Toronto
Issued by Mike W. Gryschuk, C.E.T.; Reviewed by V.O. Roslin, P. Eng.

Edition 4: June 1, 2001; Project 1212210 - Toronto
Issued by Mike W. Gryschuk, C.E.T.

Report Re-Issued

Edition 7: September 6, 2005; Project 1709266 - Toronto
Issued by Mike W. Gryschuk, C.E.T.

Report Re-Issued

Edition 8: November 9, 2005; Project 1731057 - Toronto
Issued by Mike W. Gryschuk, C.E.T.

Report Re-Issued

Contents: Certificate of Compliance – Pages 1 to 1
Supplement to Certificate of Compliance – Pages 1 to 1
Description and Tests – Pages 1 to 4
Figures – Figs 1 to 7
Literature – Pages 1-1 to 1-7

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 connectors Series MTA-100, rated 5A, 250V; and Series MTA-156, rated 7A, 600V.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 182.3-M1987 - Special Use Attachment Plugs, Receptacles, and Connectors
ANSI/UL Std No. 1977, First Ed. 1995 - Component Connectors for Use in Data, Signal, Control and Power Applications

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MARKINGS

The Submitter's name/tradename/trademark (eg "AMP" or "Tyco"), the CSA Mark and the Cat No (if desired) are permanently marked on each device.

On or included in the smallest packaging unit:

1. Submitter's name/tradename/trademark (eg "AMP" or "Tyco").
2. CSA Mark.
3. Cat No.
4. Electrical rating in volts and amperes.
5. The following (or equivalent) statements: "CAUTION: NOT FOR INTERRUPTING CURRENT" and "ATTENTION: NE PAS UTILISER POUR COUPER LE COURANT".
6. "MTA Connectors".

ALTERATIONS

See "Markings" above.

FACTORY TESTS

None.

DESCRIPTION

Conditions of Acceptability:

1. Supplied only to manufacturers, as components, for assembly into Certified electrical equipment, where the acceptability of the suitability of the combination in the end use is determined by CSA International.
2. Not for interrupting current.

Project 1731057: One alternate body material (item 1t).

Project 1709266: One alternate body material (item 1s).

Project 1572467: One alternate body material (item 1r).

Project 1369489: One alternate body material (item 1a).

Project 1212210: Two alternate body materials (items 1h, 1i).

APP LR 7189-994C: Increase the voltage rating of Series MTA-156 to 600V.

APP LR 7189-735: Add Series MTA-156 shrouded header, see Literature page 1-7.

APP LR 7189-308: Series MTA-100, 8-pole, dual row, right angle, shrouded header.

- General:
1. Shipped with contacts fully or partially loaded.
 2. Available in various sizes, shapes, configurations, densities, colours and markings.
 3. May be flat, straight, right angle, polarized, friction lock, shrouded or split back types.
 4. Posts may be round or square, vary in length and thickness, and be straight or right angle.
 5. Contacts may be selectively or duplex plated.
 6. May have locks, have polarizing tabs and may be closed-end or feed through.
 7. May have post entry holes moulded or machine closed for keying purposes.

<u>Product Description</u>	<u>Literature - Page</u>	<u>Photo - Figure</u>
MTA-100 Receptacles	1-1	1
MTA-100 Headers	1-2	2
MTA-156 Receptacles	1-3	3
MTA-156 Posted Connectors	1-4	4
MTA-156 Card Edge Connectors	1-4	4
MTA-156 Headers	1-5	5
MTA-156 Quad Connectors	1-6	6
MTA-156 Headers, Shrouded	1-7	7

Part A – Series MTA-100 and MTA-156 Connectors

1. Body: (Header and Receptacle) Moulded from the materials below.

<u>Type</u>	<u>UL Flame Class</u>	<u>UL RTI Strength</u>	<u>UL CTI</u>
a) PA4/6	V-0, 0.90mm	110°C, 0.90mm	175-249V
b) PA66	HB, 0.71mm	85°C, 1.50mm	600V+
c) PA66	V-2, 0.71mm	85°C, 0.71mm	600V+
d) PA66	HB, 1.50mm	85°C, 1.50mm	600V+
e) PA612	V-2, 0.86mm	65°C, 0.86mm	600V+
f) PBT	V-0, 0.71mm	140°C, 0.71mm	175-249V
g) PBT	V-0, 0.71mm	140°C, 0.71mm	175-249V
h) PBT	V-0, 0.89mm	140°C, 0.89mm	175-249V
i) PA6/66	V-0, 0.41mm	110°C, 0.71mm	600V+
j) PA66/6	V-0, 0.38mm	95°C, 0.75mm	600V+
k) PA66	V-2, 0.71mm	85°C, 0.71mm	600V+
l) PA66	V-2, 0.71mm	85°C, 0.71mm	600V+
m) PA66	V-2, 0.71mm	85°C, 0.71mm	600V+
n) PA66	V-2, 1.50mm	85°C, 1.50mm	n/a
o) PA66	V-2, 0.71mm	85°C, 0.71mm	600V+
p) PA66	V-2, 0.71mm	85°C, 1.50mm	600V+
q) LCP	V-0, 0.85mm	220°C, 0.85mm	100-174V
r) PBT	V-0, 0.71mm	130°C, 0.71mm	175-249V
s) PBT	V-0, 0.75mm	130°C, 0.75mm	250-399V
t) PA66/6	V-2, 0.38mm	85°C, 0.75mm	600V+

2. Contacts: Copper alloy, tin or gold plated.

TEST REPORT

APP LR 7189-308: Due to the testing done in LR 7189-77 (Sub-Report LR 16455-54), no tests were necessary.

APP LR 7189-735: Due to the similarities with the new MTA-156 Series Shrouded Header and the previously Certified MTA-156 Series Header, in this Report, no further tests were required.

APP LR 7189-994C: Only a satisfactory Dielectric test @ 2200Vac, 60Hz for 1 min was deemed necessary.

Project 1212210: Due to the favourable plastics characteristics of (items 1i, 1j), no tests were deemed necessary.

Project 1369489: Due to the favourable plastics characteristics of (item 1a), no tests were deemed necessary.

Project 1572467: Due to the favourable plastics characteristics of (item 1r), no tests were deemed necessary.

Project 1709266: Due to the favourable plastics characteristics of (item 1s), no tests were deemed necessary.

Project 1731057: Due to the favourable plastics characteristics of (item 1t) and since it was satisfactorily evaluated in Plastics Report 1014893, no tests were deemed necessary.