



Certificate of Compliance

Certificate: 1030930

Master Contract: 164196 (LR 7189)

Project: 80018100

Date Issued: 2019-10-03

Issued To: TE Connectivity Corporation
2901 Fulling Mill Road
Middletown, Pennsylvania, 17057-3163
United States

Attention: Larry Hall

The products listed below are eligible to bear the CSA Mark shown



Michael Chung
Issued by: Michael Chung

PRODUCTS

CLASS 6233 01 - RECEPTACLES Attachment Plug Type and Plugs

Special-use connectors "COMMERCIAL MATE-N-LOK" Series 350XXX, 380XXX, 770000, 829XXX, 15865XX, 2178XXX, rated 13A (15-pole, No 14 AWG), 6.5A (15-pole, No 20 AWG), 7A max, 600V max.

Special-use connectors "MATE-N-LOK or UNIVERSAL MATE-N-LOK" Series 60XXX, 61XXX, 350XXX, 380XXX, 480XXX, 640XXX, 641XXX, 643XXX, 770XXX, 794XXX, 829XXX, 926XXX, 927XXX, 969XXX, 1241XXX, 1586XXX, 1644XXX, 1703XXX, 1863XXX, 1877XXX, 1950XXX, 2029XXX, 1969XXX, Cat Nos 966519-3, 2312156, 2312157, 2825081-1, rated 13A (15-pole, No 14 AWG), 6.5A (15-pole, No 20 AWG), 7A max, 600V max.

Special-use connectors "UNIVERSAL MATE-N-LOK" Series 794XXX, rated 26A (4-pole, No 10 AWG), 23A (4-pole, No 12 AWG), 22A (6-pole, No 10 AWG), 20A (6-pole, No 12 AWG), 7A max, 600V max.

Special-use connectors "UNIVERSAL MATE-N-LOK" Series 1604XXX, rated 15A (No 10 AWG), 600V max.

Special-use connectors "UNIVERSAL MATE-N-LOK II" Cat Nos 193839, 194002, 194009, 194010, 194012, 194013, 194014, 194017, 194018, 194234, 194260, 194261, 194269, 350945, 796961, rated 22A max, 600V and Series 770XXX, rated 7A max, 600V max.

Special-use connectors "UNIVERSAL MATE-N-LOK" Series 350777, 350778, rated 2.0A, 600Vac current interruption.



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APPLICABLE REQUIREMENTS

CSA Std. C22.2 No. 182.3-16, 2nd Ed - Special Use Attachment Plugs, Receptacles, and Connectors



Supplement to Certificate of Compliance

Certificate: 1030930

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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
80018100	2019-10-03	One alternate body material.
80011497	2019-08-09	Add Cat No 770262-4 .
000070155540	2017-09-15	One alternate body material.
000070143217	2017-06-20	Add Series 350736-1, 350865-1, 350866-1, 926307-1, 770023-1, 770025-1, 770026-1, 770028-1, 770029-1.
000070143056	2017-06-14	Add Series 2312156, 2312157.
000070070692	2016-04-13	Add Cat Nos 643424-3.
000070063977	2016-02-19	Add Cat Nos 1586866-1, 1586869-1, 1586872-1, 1586876-1, 1586879-1, 1586889-1, 1586890-1, 1586893-1, 1586895-1, 1586896-1, 1586898-1, 1586899-1, 1586936-1, 1586937-1, 1586939-1, 1586953-1, 1586955-1, 1586958-1, 1586963-1, 1586968-1, 1586979-1, 1586984-1, 1586998-1, 1969795-1, 1969796-1, 1969797-1, 1969798-1, 1969799-1, 1969800-1, 1969801-1, 1969802-1, 1969803-1, 1969804-1, 1969805-1, 1969806-1, 1969807-1, 1969808-1, 1969809-1, 1969810-1, 1969811-1, 1969812-1, 1969813-1, 1969814-1, 1969815-1, 1969816-1, 1969817-1, 1969818-1, 1969830-1, 770262-3; one alternate body material.
000070059209	2016-01-20	Add Cat No 2825081-1.
000070019258	2015-02-10	Add Series 926298-1, 926299-1, 926300-1, 926301-1, 926302-1, 926308-1, 926309-1, 926647-1, 969326-1. LR 7189-549, 1030930. GPS12518.
0002692124	2014-01-08	Add "UNIVERSAL MATE-N-LOK" Series 926309, 927231, 1586892, 1644055, 170306X, 186300X, 2178XXX and one alternate body material.
0002594734	2013-03-12	Add "UNIVERSAL MATE-N-LOK" Series 2178473, 2178474.
0002496430	2012-02-29	Series 794911, 794912 alternate pin and sockets.



0002405832	2011-03-09	Add Cat Nos 2029314-1, 2029315-1 and one alternate material [REDACTED] (item 1ad).
0002266810	2010-01-25	Add Series 1950041 and alternate [REDACTED] (item 1ac).
0002248382	2009-12-01	One alternate body material [REDACTED] (item 1f).
0002204295	2009-08-10	Add Series Nos 796961.
0002151147	2009-03-09	Add Series 926XXX, 927231, 1241809, 1586860, 1644055, 18630XX.
0002095339	2008-10-06	Add Series 350945, 829182, 829183, 829184, 829185.
0002066498	2008-09-15	Add Series 158684X, 158685X, 1586887, 1586952.
0002044513	2008-05-30	Add Series 194234, 194260, 194261, 194269, 350950.
0002042196	2008-05-09	Add Series 158635X, 202900X.
0002027486	2008-04-04	Delete "UNIVERSAL MATE-N-LOK" Series 1877829, 1877830, 1954495, 1954496, 1954564, 1954565, 1954566, 1954759, 1954760 (Part B).
0001981024	2007-11-23	Alternate male pin Part No 1954443 (item 2ag).
0001980122	2007-11-19	Add Cat Nos 1703061, 1703062.
0001974460	2007-11-12	Add Cat No 770827.
0001935084	2007-09-12	Series 350777, 350778, 1877829, 1877830, 1954495, 1954496, 1954563 to 1954566, 1954759, 1954760 rating increase to 2.0A, 600Vac current interruption.
0001934852	2007-07-31	Three new contacts Part Nos 350690, 350706, 640347.
0001915904	2007-05-23	Add "UNIVERSAL MATE-N-LOK" Series 1877829, 1877830, 1954495, 1954496, 1954563, 1954564, 1954565, 1954566, 1954759, 1954760 (Part B).
0001903128	2007-04-18	Cat No 794714 alternate keyed construction.
0001891103	2007-03-09	Add "UNIVERSAL MATE-N-LOK" Cat Nos 1586661-1, 1586662-1, 1586663-1, 1586664-1, 1586665-1, 1586668-1, 1586669-1.
0001878703	2007-02-09	Add "MATE-N-LOK" Cat Nos 794116, 794117, 794118, 794412, 794413.
0001875833	2007-01-29	Series 350777, 350778 two alternate contacts Part Nos 350699, 350851.
0001873542	2007-01-19	Alternate body material [REDACTED] (item 1ab).



0001837933	2006-10-16	Two alternate body materials [REDACTED] (items 1z, 1aa).
0001813775	2006-08-14	Add "Commercial Mate-N-Lok" Series 15865XX.
0001790186	2006-06-28	Series 350777, 350778 add a 1.35A, 480Vac current interruption rating.
0001791643	2006-06-02	Add Cat No 1877788.
0001789509	2006-05-02	Add Cat No 1586719 and alternate body material [REDACTED] (item 1y).
0001762049	2006-02-20	Alternate body material (item 1x).
0001696192	2005-07-29	Add connectors Cat Nos 1604210, 1604254, 1604256, 1604941 and alternate body material (item 1u).
0001600823	2005-03-14	Add 82 Header Cat Nos to Series "UNIVERSAL MATE-N-LOK" and add alternate body material [REDACTED] (item 1v, Part A).
0001562276	2004-06-10	Add "UNIVERSAL MATE-N-LOK" Cat Nos 1586377-1, 1586378-1, 1586379-1, 1586380-1, 1586436-1, 1586437-1
0001545501	2004-05-05	Add Cat No 794715-3.
0001537696	2004-04-05	Alternate male pin Part No 1586096 (item 2g).
0001532538	2004-03-09	Alternate body material (item 1u) and add Cat No 794716-3.
0001399793	2003-01-15	Increase current rating of "MATE-N-LOK or UNIVERSAL MATE-N-LOK" to 13A max.



Descriptive Report and Test Results

MASTER CONTRACT: 164196

REPORT: 1030930

PROJECT: 80018100

Edition 1: August 25, 1994; Application No LR 7189-549 - Toronto
Issued by V.O. Roslin, P. Eng.

Edition 11: November 30, 1999; Project 1030930 - Toronto
Issued by B. Wright, Technologist

Report Reissued

Figure Replaced: Fig 1

Figure Added: Fig 383

Edition 70: September 15, 2017; Project 70155540 - Toronto
Issued by Michael Chung

Report Reissued

Edition 71: October 24, 2017; Project 70156162 - Toronto
Issued by Mike W. Gryschuk, C.E.T.

Report Reissued

Figures Added: Fig 455

Edition 72: August 9, 2019; Project 80011497 - Toronto
Issued by Minoru Morimoto, C.E.T.

Report Reissued

Figures Added: Fig 456

Edition 73: October 3, 2019; Project 80018100 - Toronto
Issued by Michael Chung

Report Reissued

Contents: Certificate of Compliance - Pages 1 to 2
Supplement to Certificate of Compliance - Pages 1 to 3
Description and Tests - Pages 1 to 26
Figures - Figs 1 to 456 (electronically on file)
Appendices - Appendix A (1 page - Main Files)

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PRODUCTS

CLASS 6233 01 - RECEPTACLES - Attachment Plug Type and Plugs

Special-use connectors "COMMERCIAL MATE-N-LOK" Series 350XXX, 380XXX, 770000, 829XXX, 15865XX, 2178XXX, rated 13A (15-pole, No 14 AWG), 6.5A (15-pole, No 20 AWG), 7A max, 600V max.

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Special-use connectors "UNIVERSAL MATE-N-LOK" Series 350777, 350778, rated 2.0A, 600Vac current interruption.

APPLICABLE REQUIREMENTS

CSA Std. C22.2 No. 182.3-16, 1st Ed - Special Use Attachment Plugs, Receptacles, and Connectors

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown without an indicator for Canada only (indicating that products have been manufactured to the requirements of Canadian Standards).

The Submitter's name ("TYCO")/tradenname ("AMP")/trademark/file ("164196" or "LR 7189") and the CSA Mark are permanently ink-stamped, labeled, etc on each device.

The Submitter's identification, the CSA Mark, the Cat No, the electrical rating and per the note below the following (or equivalent) 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.

Series 350777, 350778 connectors have a 2.0A, 600Vac current interruption rating, therefore do not require the cautionary not for interrupting current markings and may be also marked "CURRENT INTERRUPTION" (or equivalent) on each device or smallest carton (if desired).

The current and voltage may be marked at a lower value than the rated value.

ALTERATIONS

See "Markings" above.

FACTORY TESTS

None.

SPECIAL INSTRUCTIONS FOR FIELD SERVICES

1. Component descriptions marked with either the "(INT)" or "(INT*)" identifiers may be substituted with other components providing the requirements specified under the notes in the "Description" are complied with (reference only).

COMPONENT SPECIAL PICKUP

1. Component descriptions marked with the identifier "(CT)" are subject to annual pickup and Conformity Testing (reference only).

DESCRIPTION

Notes:

1. Component Substitution (reference only)
 - a) Critical components (those identified by mfr name, cat no), which are NOT identified with either "INT" or "INT*" are not eligible for substitution without evaluation and report updating
 - b) The term "INT" means a "Certified" and/or "Listed" (or a "Recognized" and/or "Accepted") component may be replaced by one "Certified" and/or "Listed" by another certification organization accredited by the appropriate accreditation body or scheme requirements to the correct standard, for the same application; providing the applicable country identifiers are included and requirements in item "d" below are complied with.
 - c) The Term "(INT*)" means a "Recognized" and/or "Accepted" component may be replaced by a component that is CSA Certified. The applicable country identifiers shall be included, the requirements in item "d" below as well as any "conditions of suitability" for the component (as recorded in this descriptive report) shall be complied with;
 - d) Components which have been substituted, must be of an equivalent rating, configuration (size, orientation, mounting) and the applicable minimum creepage and clearance distances are to be maintained from live parts to bonded metal parts and secondary parts.
 - e) Substitution of a "Certified" and/or "Listed" component with a component that is "Recognized" or "Accepted" is not permitted without evaluation and report updating.
 - f) Substitution of a "Recognized" and/or "Accepted" component by one that is not CSA Certified is not permitted without a proper evaluation as well as a report update because the Conditions of Acceptance of the original component may be different than the Conditions of Acceptance of the substitute component.

Conditions of Acceptability:

1. Supplied only to manufacturers, as components, for the assembly of 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, except for Series 350777, 350778 rated 2.0A, 600Vac.
3. Prefixes and suffixes maybe added to denote non-electrical variations.
4. Connectors using pins P/N 193841 and sockets P/N 193842 are de-rated to 16A max.
5. "Mate-N-Lok II, Commercial Mate-N-Lok and Universal Mate-N-Lok" have a min 6.35mm pitch.
6. "UNIVERSAL MATE-N-LOK" connectors for Current Interruption (Part B) only use body materials:
██████████ (item 1y), ██████████ (item 1ai)

Note: This Report supersedes Reports LR 7189-493, LR 7189-381 and LR 7189-77 (Sub-Report LR 16455-98).