

Standard Information

Standard Number: CSA C22.2 No. 182.3

Standard Name: Special use attachment plugs, receptacles, and connectors

Standard Edition and Issue Date: 2nd Edition Dated July 1, 2016

Date of Previous Revision of Standard: 1st Edition Reaffirmed 2014

Effective Date of New/Revised Requirements

Effective Date: **March 14, 2018**

Impact, Overview, and Action Required

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes: Major revisions include addition of requirements for IDC terminations (formerly in TIL A-38), new requirements for rewirable devices (impact, Crush) and new requirements for withdrawal force, grounding / bonding path, and mold stress. Specific details of new/revised requirements are found in table below.

The content of this SUN is based on UL Announcement Letter Dated February 9, 2017

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



Standards Update Notice (SUN)

Issued: April 26, 2017

Description of New/Revised Technical Requirements

Clause	Verdict	Comment
4.7	Info	Grounding parts — Grounding (bonding) and dead-metal parts
4.7.1 (New)		Requires grounding type devices to comply with CAN/CSA C22.2 No. 04. Will require: <ul style="list-style-type: none"> • Impedance test (See clause 6.15) • Depending upon method used may also require Limited Short-Circuit Test, Clause 4.3. <p>Note: A “grounding type device” is each device type with an identified grounding contact or terminal.</p>
4.12 (New)		Grounding (bonding) connections Plugs and connectors employing IDC (Insulation Displacement Terminals Only): <ul style="list-style-type: none"> • Requires limited short circuit testing. • Requires the grounding (bonding) be not smaller than Table 3. • Grounding (bonding) conductor for field installation not to be shorter than 150 mm.
6	Info	Tests
6.3 (New)		Strain relief Affects only plugs and connectors intended for external use and assembled to a flexible cord. Applies a strain relief force of 90 N for cords less than 18 AWG and 133 N for all other cord sizes.
6.10 (New)		Heat Cycling Test (IDC terminations Only) Affects only self-contained plugs and connectors rated 15 or 20 A only.
6.11 (New)		Vibration Test (IDC terminations Only) Affects only self-contained plugs and connectors rated 15 or 20 A only.
6.12 (New)		Cable Pull Out Test (IDC terminations Only) Affects only self-contained plugs and connectors rated 15 or 20 A only.
6.13 (New)		Conductor Pull Out Test (IDC terminations Only) Affects only self-contained plugs and connectors rated 15 or 20 A only.
6.14 (New)		Limited Short Circuit Test (Grounding/Bonding Conductors Only) Affects plugs and connectors having IDC- type Terminals.



Standards Update Notice (SUN)

Issued: April 26, 2017

Clause	Verdict	Comment
6.15 (New)		Grounding Impedance Test Affects all grounding type devices.
6.16 (New)		Conductor Secureness Test Affects all devices assembled to flexible cord or cable where the element (male or female contact) before the element is assembled into the device.
6.17 (New)		Cord or Cable Secureness Test Affects all devices assembled-on or molded-on devices to flexible cord or cable.
6.18 (New)		Impact (plugs and connectors) Test Affects all rewirable plugs and connectors.
6.19 (New)		Crush Test Affects all assembled on plugs and connectors to flexible cord.
6.20 (New)		Withdrawal Force Test Affects all plugs with a receptacle or connector rated 15 A or higher. For plugs, receptacle, and a connector that employs a mechanical means of securement (i.e. mechanically interlocked for example: a locking collar) are not required to comply with this test.
6.21 (New)		Grounding (bonding) path current Test Affects all grounding type plugs, receptacles, inlets and cord connectors.
		CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.