

STANDARD INFORMATION

Standard: UL 514B / CSA C22.2 No. 18.3

Standard ID:

Conduit, Tubing, and Cable Fittings [UL 514B:2012 Ed.6+R:28Mar2024]

Conduit, Tubing, and Cable Fittings [CSA C22.2#18.3:2012 Ed.2+U1;U2;U3]

Previous Standard ID:

Conduit, Tubing, and Cable Fittings [UL 514B:2012 Ed.6+R:22May2020]

Conduit, Tubing, and Cable Fittings [CSA C22.2#18.3:2012 Ed.2+U1;U2]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **March 28, 2026**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Revision of sample requirements
- Electrical Metallic Tubing Fittings, addition of trade sizes 5" & 6"
- Distributed generation DG cable fittings
- Push-to-connect fittings
- Male Threaded Fittings provided with a LOCKNUT and also intended for securement to: Enclosures with threaded entries, or Fittings with internal female threads (e.g., HUBs, conduit bodies, couplings)

Specific details of new/revise requirements are found in table below

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<p>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</p>
1	Info	Scope
1.7		<p>In addition to covering male threaded FITTINGS for use with cable and conduit, these requirements also cover male threaded FITTINGS for use with or without a locknut and intended for securement to enclosures:</p> <ul style="list-style-type: none">a) having threaded openings or knockouts, orb) fittings with internal female threads (e.g., HUBS, conduit bodies, couplings). <p>These requirements cover cable fittings that are intended to be used with:</p> <ul style="list-style-type: none">a) specific corresponding single-conductor PV wire or distributed generation DG in the US and Mexico; and type RPVU cable, of all sizes in Canada;b) distributed generation Type DG cables in the US and Mexico; andc) Type RPVU cable of all sizes in Canada.
1.8		<p>Note 1: In US and Mexico, Distributed Generation DG cable is a multi-conductor, nonintegrally jacketed, cable intended for use in distributed generation applications with specific equipment/devices such as photovoltaic modules, inverters, rapid shutdown equipment, solar trackers, etc. In the US and Mexico, Type DG cable is evaluated in accordance with Outline of Investigation for Distributed Generation Cables, UL 3003.</p> <p>Note 2: In Canada, Type "RPVU" rated cables are evaluated in accordance with CSA C22.2 No. 271, Photovoltaic cables.</p> <p>Note 3: In the US and Mexico, Type PV wire is evaluated in accordance with the Standard for Photovoltaic Wire, UL 4703.</p>
4	Info	General requirements
		<i>New clause added;</i>
4.5		<p>In addition to complying with requirements specific to its intended use with conduit, cable, and tubing, a male threaded fitting shall also comply with performance, environmental and marking requirements for its connection to any of the following additional uses as identified by the manufacturer:</p> <ul style="list-style-type: none">a) an enclosure with threaded knockouts,b) an enclosure with removable knockouts, orc) fittings with internal female threads (e.g. HUBS, conduit bodies, couplings).



CLAUSE	VERDICT	COMMENT
5	Info	Construction
5.5	Info	Throats and end stops for THREADLESS FITTINGS
5.5.1	Info	CONNECTORS
5.5.1.3		A threadless CONNECTOR for electrical metallic tubing in the 2-1/2 (63), 3 (78), 3-1/2 (91), 4 (103), <u>5 (129)</u> , and <u>6 (155)</u> trade sizes shall have a smooth, rounded end stop with an internal diameter as specified in Table 7. See 7.3.1.
5.5.2	Info	COUPLINGS
5.5.2.2		Threadless COUPLINGS for electrical metallic tubing in the 2-1/2 (63), 3 (78), 3-1/2 (91), 4 (103), <u>5 (129)</u> , and <u>6 (155)</u> trade sizes shall be provided with a centering stop having an effective diameter not less than the minimum throat diameter specified in Table 7. See 7.3.1.
		<i>New section added;</i>
		PUSH-TO-CONNECT FITTINGS
5.22		A PUSH-TO-CONNECT FITTING made from a nonmetallic material intended for use with metallic conduit, tubing or cable whose armor is suitable for grounding and transitions to another nonmetallic conduit or tubing and marked in accordance with 7.21.3 shall not be required to comply with the current test. See standard for details.
7	Info	Marking
7.11	Info	FITTINGS for threaded HUBS
		<i>New clause added;</i>
7.11.2		Marking on Fitting – A FITTING provided with a LOCKNUT and intended for securement to boxes with threaded entries or fittings with internal female threads (e.g., HUBS, conduit bodies, couplings) shall be marked to identify its' type of external threads, such as NPS, NPT, metric, "Straight, "S", Tapered, T" "Fine", "Course" or with equivalent wording.
7.11.3		Marking on Carton – A FITTING provided with a LOCKNUT and additionally evaluated for securement to boxes with threaded entries or fittings with internal female threads (e.g., HUBS, conduit bodies, couplings) shall have a marking on the smallest unit shipping carton "For securement to a + only" or with equivalent wording. + Blank to be filled in with the type of internal thread: "NPT", "NPS", "metric", "Straight", "Tapered", "Straight and Tapered", or equivalent. Type of thread shall be in accordance with NMX-J-554-ANCE, ANSI/ASME B1.20, or ANSI/ASME B1.16M.



CLAUSE	VERDICT	COMMENT
		<i>New section added;</i>
		Distributed generation DG cable FITTINGS in the US and Mexico
7.20		A DG cable FITTING or the smallest unit shipping carton shall be marked with the shape and diameter of the smallest and largest distributed generation Type DG cable for which the FITTING is rated. See standard for details.
		<i>New section added;</i>
		PUSH-TO-CONNECT FITTINGS
7.21		A PUSH-TO-CONNECT FITTING shall be marked for each conduit, tubing or cable type that the FITTING is intended to be used with including all markings specific to the cable and/or cable type. See standard for details.
8	Info	Performance
8.1	Info	General notes on tests
8.1.6		Unless otherwise specified, a minimum of six <u>three</u> samples of each fitting in each trade size shall be tested. When a line of a minimum of four trade sizes of a particular construction is investigated, three samples of each trade size shall be tested.
		<i>New clause added;</i>
8.1.7		FITTING provided with a LOCKNUT and also intended for securement to enclosures with threaded entries or fittings with internal female threads (e.g., HUBS, conduit bodies, couplings) shall comply with: a) the applicable requirements for that fitting when assembled to the intended conduit, cable or tubing, as specified in 8.1.5, and b) the applicable performance and environmental requirements for that fitting when assembled to the threaded entry identified by the manufacturer. See 4.5, 7.11.2, 7.11.3 and 8.40.1.
		<i>New section added;</i>
		PUSH-TO-CONNECT tests
8.40		A FITTING shall be subject to the appropriate performance tests and test sequences in this standard for each specific conduit, tubing or cable type for which the FITTING is intended to be used. See standard for details.



CLAUSE	VERDICT	COMMENT
		<i>New section added;</i>
		FITTINGS for distributed generation cable DG in the US and Mexico
8.41		A FITTING for DG cable shall comply with the appropriate test sequences described in the following table for the type of DG cable for which the fitting is intended to be used. See standard for details.
		<i>New section added;</i>
8.42		Tests on male threaded fittings provided with a LOCKNUT and also intended for securement to enclosures with threaded entries or fittings with internal female threads (e.g., HUBS, conduit bodies, couplings) Male threaded fittings shall: See standard for details.