

STANDARD INFORMATION

Standard: UL 2239 / CSA C22.2 No. 18.4

Standard ID:

Hardware for the Support of Conduit, Tubing, and Cable [UL 2239:2015 Ed.2+R:14Jan2022]

Hardware for the Support of Conduit, Tubing, and Cable [CSA C22.2#18.4:2015 Ed.2+U1;U2]

Previous Standard ID:

Hardware for the Support of Conduit, Tubing, and Cable [UL 2239:2015 Ed.2+R:22Mar2019]

Hardware for the Support of Conduit, Tubing, and Cable (R2019) [CSA C22.2#18.4:2015 Ed.2+U1]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **January 14, 2024**

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 Reports not updated to this version by the effective date above will be withdrawn.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:

- Messenger-supported wiring hangers rings and saddles for supporting conduit, cable or tubing from messenger cable
- Quantity, sizes and types of conduit, cable, or tubing intended to be supported per staple

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i>
5	Info	Construction
5.1	Info	General
		<i>New clause added;</i>
5.1.6A		MESSENGER-SUPPORTED WIRING HANGERS, RINGS and SADDLES shall have smooth, rounded surfaces that contact Conduit, Cable or Tubing.
		<i>New clause added;</i>
5.1.6B		MESSENGER-SUPPORTED WIRING HANGERS, RINGS and SADDLES are considered suitable for outdoor use only and for use in wet locations.
		<i>New section added;</i>
10B		Product Testing for Messenger-Supported Wiring Hangers, Rings and Saddles
10B.1		General
10B.1.1		In addition to the requirements in Clause 5, Messenger Supported Wiring HANGERS, Rings and Saddles shall comply with Clauses 6.1, 6.2, 6.3, 6.4, 6.6, 7.2, 10B.2 and 10B.3.
10B.2		Voltage withstand
10B.2.1		A HANGER, RING or SADDLE shall be capable of withstanding an ac voltage of 1.0 kV without breakdown for a period of 1 min at a temperature of 23 ±5 °C (73 ±10 °F).
10B.2.2		Six specimens of a HANGER, RING or SADDLE shall each be installed in the intended manner. Voltage shall be applied to a metal mandrel representing the max diameter cable that is held in place by the HANGER, RING or SADDLE. The voltage shall be applied through the messenger cable or an electrode representing the messenger cable to the mandrel secured by the hanger.
10B.3		Low temperature handling
10B.3.1		A HANGER, RING or SADDLE shall not shatter, chip, or crack when handled at low temperature as indicated in Clause 10B.3.2.
10B.3.2		Six specimens shall be cooled in circulating air for five hours to a temperature of minus 20.0 ±1.0 °C (minus 4.0 ± 2.0 °F). While still at the low temperature, each specimen shall be dropped onto a concrete floor twice in quick succession from a height of 1525 mm (60 inches). During the first drop, the sample shall contact the floor at an angle of approximately 45 degrees so that one end of it reaches the floor first. For the second drop, the sample shall fall parallel to the floor.



CLAUSE	VERDICT	COMMENT
11	Info	Markings
11.6		<p>The following, where applicable, shall be marked on the smallest unit shipping carton or installation instructions provided on or in the smallest unit carton:</p> <ul style="list-style-type: none">a) Types or range of thicknesses of a beam flange, drop wire, or rod according to Clause 6.1.2,b) Intended mounting orientations, if restricted (for example, vertical or horizontal),c) Sizes and types of conduit, cable, or tubing intended to be supported for HANGERS and STRAPS,<u>d) Quantity, sizes and types of conduit, cable, or tubing intended to be supported for STAPLES,</u>e) LOAD RATING when tested to values greater than as specified in Table 6 – Table 9, or Clause 7.2.4, for the intended applications,f) Manufacturer designated assembly torque when other than indicated in Table 3. See Clauses 6.2.4 and 6.2.5i, andg) For staples without stops, the manufacturers designated installation tool.