

Subject 514C

September 28, 2018

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers, UL 514C, are being proposed:

1. NEW EXCEPTION TO CONSTRUCTION REQUIREMENTS FOR BOXES AND COVERS INTENDED FOR USE WITH RIGID NONMETALLIC CONDUIT

STP BALLOTS AND ALL COMMENTS DUE: October 29, 2018

If you are interested in applying for STP 514C membership or are aware of potential candidates for this STP, please contact the STP Project Manager, Joshua.Johnson@ul.com.

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. NEW EXCEPTION TO CONSTRUCTION REQUIREMENTS FOR BOXES AND COVERS INTENDED FOR USE WITH RIGID NONMETALLIC CONDUIT

RATIONALE

Proposal submitted by: David Gerstetter, Underwriters Laboratories Inc.

A nonmetallic box for use with PVC conduit provided with steel hardware and/or steel support brackets intended to secure and support a fixture/luminaire or equipment to a structural member should be exempt from the construction requirement of UL 514C, clause 65.1. This exception serves to clarify that boxes are not relied upon for securement and support unless they are provided with fixture/luminaire or equipment steel mounting hardware e.g. screws, brackets, etc. as an acceptable construction. For example, for boxes provided with screws that pass through channels in the nonmetallic box (so as not to expose the wiring to the screws) and that secure directly into the framing stud, those pass through channels are not to be considered means for mounting a fixture/luminaire or equipment.

PROPOSAL

5.3.1 The requirements in Sections 6 – 48 15 and 65 – 93 cover rigid nonmetallic, such as unplasticized polyvinyl chloride, boxes and covers, including blank covers.

5.3.2 The products covered by the requirements in Sections 6 – 48 15 and 65 – 93 are intended to be joined in the field to rigid nonmetallic conduit.

5.3.3 The nonmetallic products covered by the requirements in Sections 6 – 48 15 and 65 – 93 are considered to be inherently resistant to the corrosive influences of common industrial atmospheres including the vapors and mists of bases, hydrofluoric and chromic acids, and chromic acids, and pickling and plating baths. Resistance to specific reagents is covered in Resistance to Specific Reagents, Section 85 and in 92.3.1 and 92.3.2.

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5.3.4 The outlet boxes covered by the requirements in Sections 6 – 18 15 and 65 – 93 have an interior volume of 100 cubic inches (1639 cm³) or less and are intended to provide access to wiring during installation of the wiring. They are also intended to enclose splices, taps, and wiring devices, ~~but not intended for the support of fixtures/luminaires~~. From one to four unthreaded conduit-connection sockets are provided integrally with a PVC box, or the box is blank.

5.3.5 The conduit bodies covered by the requirements in Sections 6 – 18 15 and 65 – 93 are pull boxes intended for use with nonmetallic conduit to enclose splices and taps and to support wiring devices not involving the generation of heat – for example, lampholders are not acceptable – mounted on cover plates. Blank covers are to be provided with the bodies. From one to four unthreaded conduit-connections sockets are to be provided integrally with the body.

5.3.6 The flush-device boxes covered by the requirements in Sections 6 – 18 15 and 65 – 93 have an interior volume of 100 cubic inches (1639 cm³) or less. Flush-device boxes made of PVC material are intended for use with nonmetallic conduit for the support of wiring devices not involving the generation of heat – for example, lampholders are not acceptable – with the wiring devices mounted directly in the box rather than on the cover but can also be used as junction and conduit bodies. Flush-device boxes may be provided with blank covers or flush-device cover plates. At least one unthreaded conduit-connection socket or knockout is provided integrally with a PVC box, or the box is blank.

65 General

65.1 The construction of a box shall include means for attachment to rigid nonmetallic conduit. ~~A box shall not be provided with means for the mounting of a fixture/luminaire or equipment other than a wiring device such as a snap switch or a receptacle.~~

Exception: A box having blank sides for holes to be cut in the field for the attachment of conduit fittings need not comply with this requirement.

65.2 A box shall not be provided with means for the mounting of a fixture/luminaire or equipment other than a wiring device such as a snap switch or a receptacle unless the box acts solely as an enclosure and is not relied upon solely for the securement or support of a fixture/luminaire or equipment. Such a box is to be:

- a. provided with steel hardware or steel support brackets intended to provide securement and support of a fixture/luminaire or equipment to a structural member;
- b. meet the material requirements of 19.3; and
- c. when assembled is required to yield compliant results when subjected to the applicable support tests in this standard.

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