Thomas & Betts

ANALYSIS OF NEC ®

2017 Code Changes: Article Section 320.30(A), 330.30(A), 334.30(A), 348.30(A), 350.30(A), 356.30(1), and 362.30(A) Cable Ties for Securement and Support

Section 320.30(A), 330.30(A), 334.30(A), 348.30(A), 350.30(A), 356.30(1), and 362.30(A) Cable Ties for Securement and Support

Thomas&Betts
A Member of the ABB Group

Section 320.30(A), 330.30(A), 334.30(A), 348.30(A), 350.30(A), 356.30(1), and 362.30(A) Cable Ties for Securement and Support

Section 320.30(A), 330.30(A), 334.30(A), 348.30(A), 350.30(A), 356.30(1), and 362.30(A) Cable Ties for Securement and Support

Armored Cable: Type AC

320.30(A) General. Type AC cable shall be supported and secured by staples, cable ties listed and identified for securement and support, straps, hangers, or similar fittings or fittings or other approved means designed and installed so as not to damage the cable.

Metal-Clad Cable: Type MC

330.30(A) General. Type MC cable shall be supported and secured by staples, cable ties listed and identified for securement and support, straps, hangers, or similar fittings or fittings or other approved means designed and installed so as not to damage the cable.

Nonmetallic-Sheathed Cable: Types NM, NMC, and NMS

334.30(A) General. Nonmetallic-sheathed cable shall be supported and secured by staples, cable ties listed and identified for securement and support, straps, hangers, or similar fittings or fittings or other approved means designed and installed so as not to damage the cable.

Flexible Metal Conduit: Type FMC

348.30(A) Securely Fastened. FMC shall be securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other conduit termination and shall be supported and secured at intervals not to exceed 1.4 m (41⁄2 ft). Where used, cable ties shall be listed and be identified for securement and support.

Liquidtight Flexible Metal Conduit: Type LFMC

350.30(A) Securely Fastened. LFMC shall be securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other conduit termination and shall be supported and secured at intervals not to exceed 1.4 m (41⁄2 ft). Where used, cable ties shall be listed and be identified for securement and support.

Liquidtight Flexible Nonmetallic Conduit: Type LFNC

356.30 Securing and Supporting. Type LFNC shall be securely fastened and supported in accordance with one of the following: (1) Where installed in lengths exceeding 1.8 m (6 ft), the conduit shall be securely fastened at intervals not exceeding 900 mm (3 ft) and within 300 mm (12 in.) on each side of every outlet box, junction box, cabinet, or fitting. Where used, cable ties shall be listed as suitable for the application and for securing and supporting.

Electrical Nonmetallic Tubing: Type ENT

362.30(A) Securely Fastened. ENT shall be securely fastened at intervals not exceeding 900 mm (3 ft). In addition, ENT shall be securely fastened in place within 900 mm (3 ft) of each outlet box, device box, junction box, cabinet, or fitting where it terminates. Where used, cable ties shall be listed as suitable for the application and for securing and supporting.

Analysis of the Change

Sections 320.30(A), 330.30(A), 334.30(A), 348.30(A), 350.30(A), 356.30(1), and 362.30(A) were revised to permit cable ties to be used for securement and support of cables, flexible conduits, and tubings. Cable ties that are Listed to UL 62275 and identified as Type 2S or Type 21S are intended to provide “securement and support” in accordance with the requirements for securement and support of cables, flexible conduits and tubings at maximum spacing intervals specified in the Code. Listing of cable ties approved for support of cables, flexible conduits and tubings are appropriate as the standard requires markings that identify critical performance ranges that can impact their suitability for use, including minimum and maximum operating temperature and resistance to ultraviolet light for outdoor installations. Cable ties identified as Type 1, Type 11, Type 2 or Type 21, without the “S” suffix for “securement and support” serve many useful wire management purposes in electrical installations, including but not limited to: bundling or routing wires for “neat and workmanlike” installations [Section 110.12]; grouping conductors in multi-wire circuits for circuit identification [Section 210.4(D)]; maintaining critical spacing in cabinets; or otherwise to provide supplemental means for routing conductors, flexible conduits or cables.

Products

Ty-Rap, Catamount and Ty-Fast Cable Ties, Type 2S and 21S

Contact Us

If you have any questions or require interpretation assistance, please contact the following:

David Kendall ..... 1-800-888-0211 Ext. 8879
Greg Steinman ..... 1-800-888-0211 Ext. 5719
Jean Blanc ..... 1-800-888-0211 Ext. 5670

Thomas & Betts Corporation
8155 T&B Blvd.
Memphis, TN 38125
www.tnb.com

Disclaimer: This is not intended to be an iteration of all the changes, but a reference of a change that may affect the Thomas & Betts, ABB & Baldor product lines. For a more in-depth document, please contact the International Association of Electrical Inspectors at www.iaei.org.

Thomas&Betts
A Member of the ABB Group