



# Thomas & Betts

## ANALYSIS OF NEC ®

2017 Code Changes: Article Section 300.7(B) Expansion,  
Expansion-Deflection and Deflection Fittings  
Section 300.7(B) Expansion, Expansion-Deflection and Deflection  
Fittings

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# Section 300.7(B) Expansion, Expansion-Deflection and Deflection Fittings

## Section 300.7(B) Expansion, Expansion-Deflection and Deflection Fittings

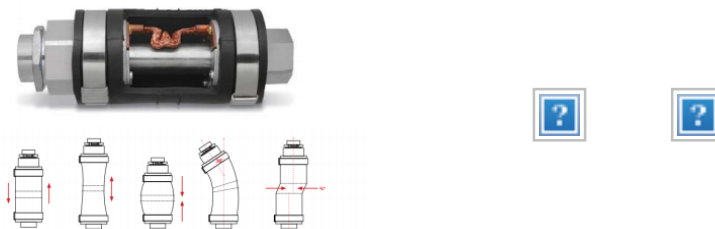
**(B) Expansion, Expansion-Deflection, and Deflection Fittings.** Raceways shall be provided with expansion, expansion-deflection, or deflection fittings where necessary to compensate for thermal expansion, deflection, and contraction.

### Analysis of the Change

A standard expansion fitting works when the raceways is installed in a straight axial alignment whereas the expansion/deflection fitting accommodates for the raceway's thermal expansion or contraction when the raceways are off-set or misaligned. Raceways are installed in an imperfect world and can be exposed to angular deflection due to the structure in which the raceway is mounted to. Expansion-deflection fittings can compensate for the angular deflection and thermal expansion and contraction of the raceway. The use of expansion-deflection fittings will prevent damage and separation of the raceway and maintain both mechanical and electrical continuity. The revised text makes it clear to inspectors, designers, and contactors that expansion-deflection and deflection fittings are acceptable to be used with raceways to address thermal expansion, deflection, and contraction.

### Products

T&B Metal Expansion Fitting and Metal and Nonmetallic Expansion-Deflection Fittings and Carlon Nonmetallic Expansion Fitting



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# Contact Us

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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](http://www.iaei.org).

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