

3/5/09

Article 358 outline

- General
 - Definitions
 - Electrical Metallic Tubing (EMT)- A unthreaded thin walled raceway designed for protection and routing of conductors and cables. For use as an equipment grounding conductor when installed appropriate fittings. EMT is generally made of steel with protective coating or aluminum
 - Listed Requirements
 - EMT, factory elbows, fittings shall be listed
- Installation
 - EMT is permitted for both exposed and concealed work
 - All supports, bolts, straps ,screws shall be corrosive resistant materials
 - Uses not permitted
 - Subject to sever physical damage
 - Protected from corrosion solely by enamel
 - In cinder concrete or cinder fill where subject to permanent moister unless protection on all sides by a layer of non-cinder concrete at least 50mm thick or unless the tube is at least 450 under the fill
 - In any hazardous location except as permitted by the NEC
 - For support of luminaries or other equipment except conduit bodies no larger than the trade size of the tubing
 - Dissimilar metals in contact with anywhere in the system shall be avoided to avoid galvanic action
 - Size
 - Minimum- EMT smaller than trade size ½ inch cannot be used
 - Maximum-EMT bigger than trade size 4 shall not be used
 - Bends- How Made
 - Bends shall be made so the tubing is not damage and the internal diameter is not effectively reduced.

- Bends Number in one run
 - There shall not be more than 4 quarter bends (360 degrees) between pull points
- Reaming and threading
 - All cut ends of EMT shall be reamed or removed of rough edges
 - EMT shall not be threaded
- Securing and supporting
 - EMT shall be fastened at least every 10ft
 - EMT shall be fastened within 3 ft of each outlet box, junction box, device box, cabinet, conduit body, or any other tubing termination
- Couplings and connectors
 - Couplings and connectors shall be made up tight. Where buried in masonry or concrete, they shall be concrete tight
- Grounding
 - EMT shall be permitted as an equipment grounding conductor
- Construction
 - Factory threaded integral couplings shall be permitted. The coupling and EMT threads shall be designed so as to prevent bending of the tubing at any part of the tread
 - Marking
 - EMT shall be clearly and durably marked at least every 10 ft as required in the first sentence of 110.21