T&B® Fittings XD expansion/deflection coupling for rigid conduit and EMT
A better solution for expansion/deflection coupling of rigid metal conduit

Use the ABB XD expansion/deflection coupling to join two conduit runs in applications where movement in any direction is required. The coupling provides a flexible, watertight connection, accommodating axial or parallel movement of up to ¾” and angular movement of up to 30° from normal position.

While similar fittings exist on the market today, this XD expansion/deflection coupling ships complete with an Erickson® type conduit union to significantly reduce installation time and effort. It also includes a stainless steel inner sleeve for extreme durability, protection and easier wire pulling. The hubs are zinc-plated and coated with aluminum acrylic paint for dual-layer corrosion protection. In addition, the copper ground mounting plates and internal grounding bonding jumper are entirely enclosed inside the coupling for added security against vandalism and theft.

Features:
• Accommodates axial expansion/contraction up to ¾”, parallel deflection up to ¾” and angular misalignment up to 30°
• Suitable for use indoors, outdoors, direct buried or embedded in concrete
• Watertight, flexible neoprene outer jacket, zinc-plated and acrylic-painted hubs and stainless steel tamper-proof straps ensure superior corrosion resistance—ideal for use in harsh environments
• Copper ground mounting plates and internal grounding bonding jumper both entirely enclosed to safeguard against theft
• Includes an Erickson type conduit union for faster, easier installation to reduce labor costs
• Durable stainless steel inner sleeve provides a constant, smooth inner diameter in any position to ease wire pulling and protect wire insulation from damage
• NPT threaded hubs fit standard threaded rigid metal conduit
• Can also be used with rigid PVC conduit with the use of standard adapters (not supplied)

Standard materials/finishes:
• Hub
  - Cast iron, zinc-plated and painted with aluminum acrylic paint
• Inner sleeve
  - Stainless steel
• Internal grounding bonding jumper
  - Flexible copper braid
• Ground mounting plates
  - Copper
• Hub rings
  - Zinc-plated steel
• Outer jacket
  - Molded elastomer (natural black)
• Jacket straps
  - Stainless steel
Why choose the T&B Fittings expansion/deflection coupling?

• Erickson type conduit union
  - Included union significantly speeds up installation, reducing your labor costs.

• Stainless steel inner sleeve
  - Stronger and more durable than plastic tubes or corrugated hose and better able to withstand friction from pulling ropes. Provides a smooth transition to ease wire pulling and reduce chance of damage to wire insulation.

• Enclosed copper ground mounting plates
  - Totally enclosed and secured with tamper-proof stainless steel jacket straps for protection against vandalism and theft.

• Dual-layer corrosion-protected hubs
  - Zinc-plated and coated with aluminum acrylic paint for extra corrosion resistance.

Typical applications:
• Bridges
• Tunnels
• Inter-building walkways
• Docks and piers
• Wastewater and water treatment facilities
• Any other application in which conduit runs are subject to movement due to external forces or temperature changes

Certifications/compliances:
• UL listed to UL 514B and CSA certified to C22.2 No. 18 suitable for wet locations (hub sizes 1”–2½”)
• Watertight
• NEC Article 250.98 compliant
# XD expansion/deflection coupling for rigid conduit

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### Diagrams

- **Relaxed position**
- **Up to \(\frac{3}{4}\)" expansion from relaxed position**
- **Up to \(\frac{1}{4}\)" contraction from relaxed position**
- **Up to 30° angular deflection**
- **Up to \(\frac{1}{4}\)" parallel deflection**