Okonite FMR-N is Okonite’s trade name for its heat, moisture, flame and chemically resistant, mechanically rugged nuclear plant qualified ethylene-propylene insulation compound. Its physical properties and flame retardancy permit its use without a jacket on the single conductors.

The properties of Okonite FMR-N insulation substantially enhance the well known features of ethylene propylene rubber insulations. Nuclear qualified Okonite FMR-N cables meet IEEE Standard - 383 LOCA and flame test criteria.

Overall Jacket
The overall jacket is a cross-linked polyethylene compound. This combination construction assures circuit security because of its high mechanical strength and excellent resistance to moisture, ozone, oil and many chemicals.

Applications
Okonite FMR-N Instrumentation Cables are recommended for use in power generating plants and in substations; designed especially for critical circuits where continuity of service is of prime importance. This premium quality instrumentation cable is recommended for wet or dry, ac or dc service at conductor temperatures to 90°C. They may be installed in conduits, ducts, cable troughs, trays, messenger supported, or directly buried in the earth.

Specifications
Conductors: Tinned copper per ASTM B-33, Class B stranded per ASTM B-8.
Insulation: Okonite FMR-N meets or exceeds the electrical and physical requirements of ICEA S-73-532.
Conductor Identification: Pigmented black and white in pairs, black, white and red in triads; white conductor numerically printed for group identification.

Group Shield: Copper/polyester tape overlapped to provide 100% coverage, and a 7-strand tin coated copper drain wire, two sizes smaller than the conductor. All group shields are completely isolated from each other.

Assembly: Pairs or triads assembled with left-hand lay. Flame-retardant, non-wicking fillers included where required to provide a round cable.

Cable Shield: Copper/Polyester/Nomex tape overlapped to provide 100% coverage, and a 7-strand tinned copper drain wire, same size as conductor.

Overall Jacket: The X-Olene FMR compound meets or exceeds the requirements of thermoset jackets given in ICEA S-73-532.

Product Features
• Qualified as Class 1E cable
• Flame retardant - passes the IEEE 383 and 1202 flame test requirements.
• Quality Assurance traceability
• 90°C rated control cable, factory assembled for indoor or outdoor installation in cable trays, in raceways, direct burial in the earth, or supported by messenger wire.
• Individual units are completely isolated for maximum noise rejection.
• Mechanically rugged.
• Color coded conductors.
• Resistant to water, oil and many chemicals.
• Thermally stable at elevated temperatures.
• High insulation resistance, even at elevated temperatures.
• Small diameter, lightweight.
### Okonite FMR-N Insulation—25 mils

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<tr>
<th>Catalog Number</th>
<th>Size AWG Strands</th>
<th>Number of Pairs</th>
<th>Number of Triads</th>
<th>Jacket Thickness - mils</th>
<th>Nominal Cable OD, In.</th>
<th>Cross-Sectional Area (ft²-in.)</th>
<th>Approx. Net Weight (lb/1000 ft.)</th>
<th>Approx. Ship. Weight (lb/1000 ft.)</th>
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Visit Okonite's web site, www.okonite.com, for the most up to date dimensions.