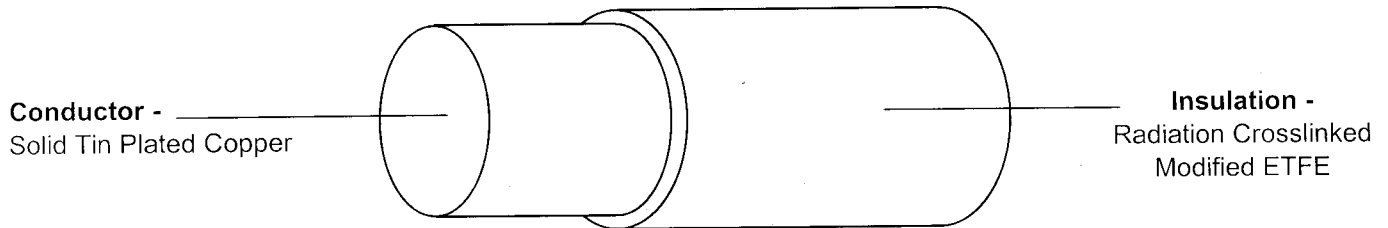


WIRE, SOLID CONDUCTOR, MODIFIED FLUOROPOLYMER INSULATED, 300 VOLT, 150°C

The complete requirements for procuring the wire described herein shall consist of this document.



| Part Number   | Conductor Stranding No./ AWG | Conductor     |       |                                      | Minimum Wall Thickness (mm) | Finished Wire Diameter (mm) |        |                  | Maximum Weight (kg/ km) |
|---------------|------------------------------|---------------|-------|--------------------------------------|-----------------------------|-----------------------------|--------|------------------|-------------------------|
|               |                              | Diameter (mm) |       | Maximum Resistance @20 °C (ohms/ km) |                             | Lower Spec Limit            | Target | Upper Spec Limit |                         |
|               |                              | Min.          | Max.  |                                      |                             |                             |        |                  |                         |
| 55CD0272-30-* | 1/30                         | 0.246         | 0.254 | 370                                  | 0.10                        | 0.46                        | 0.51   | 0.56             | 0.81                    |
| 55CD0272-28-* | 1/28                         | 0.318         | 0.323 | 240                                  | 0.10                        | 0.53                        | 0.58   | 0.63             | 1.16                    |

**COLOUR CODE:** The '\*\*' in the part number shall be replaced by a standard colour code designator in accordance with Mil Std 681.

e.g. 55CD0272-30-9 White insulation

**PERFORMANCE REQUIREMENTS:** Routine Testing to Raychem Specification 55A, for the following requirements:  
Accelerated Ageing @ 300 ± 3°C for 6 hours, 6mm Mandrel, Weight 55g followed by:  
Voltage Withstand Test @ 2.5 kV/ 5 minutes.

Shrinkage @ 200 ± 3 °C for 6 hours, 3.2 mm Max. in 300 mm.

Insulation Elongation & Tensile Strength :

Elongation: 50% Min.

Tensile Strength: 35 N/mm<sup>2</sup> Min.

Concentricity: 70% Min.

Insulation Flaws :

100% Spark Test - 8 kV Impulse