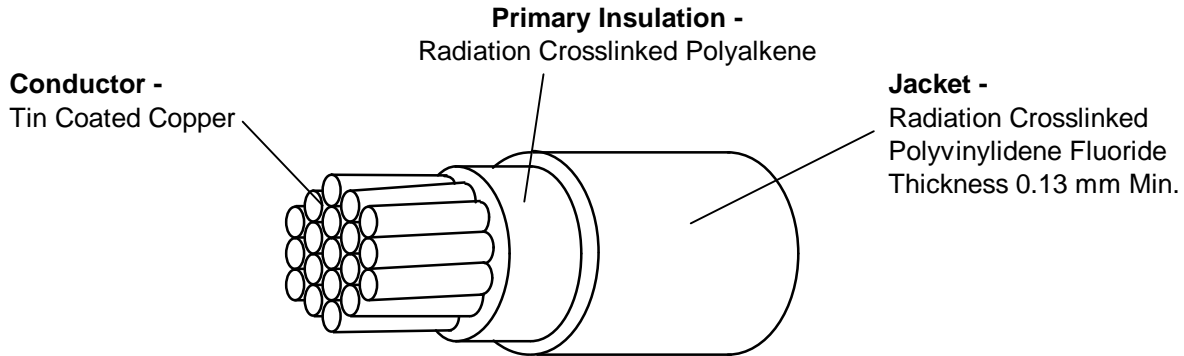


Specification Control Drawing

WIRE, ELECTRICAL, RADIATION-CROSSLINKED, MODIFIED FLUOROPOLYMER INSULATED,
 TIN COPPER CONDUCTOR, 150°C, 600 VOLT, LIGHTWEIGHT.

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



Part Description	Wire Size (AWG)	Conductor Stranding No./AWG	Conductor Diameter (mm)		Maximum Resistance @20°C (Ω/km)	FINISHED WIRE Diameter (mm.)			Maximum Weight (kg/km)
			Min.	Max.		Min.	Nom.	Max.	
			44CD0811-8-*	8		133/29	4.01	4.39	

PERFORMANCE DETAILS				
Mandrel Diameter (mm ± 3%) Immersion			Weight (kg ± 3%) Immersion	
Life cycle and Accelerated ageing	Cold Bend	Wrap	Life cycle and Accelerated ageing	Cold Bend
76	101	19	1.36	2.73

COLOUR CODE: The '*' in the part number shall be replaced by a standard colour code designator in accordance with Mil Std 681. White preferred.
 e.g. 44CD0811-8-9 White insulation

PERFORMANCE REQUIREMENTS: Except where specified above, the product shown shall be tested and meet the requirements in page 2 of this specification sheet.

APPROVAL: Electronic sign off - no signatures will appear.

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PERFORMANCE REQUIREMENTS: To be tested in accordance with the issue in effect of QP-D-0004 and meet the requirements of below:

ACCELERATED AGEING: 300±2°C for 6 hours;

BLOCKING: 150±2°C for 24 hours

FLAMMABILITY: 30 seconds (maximum); 76.2 mm (maximum);
no flaming of facial tissue.

INSULATION ELONGATION AND TENSILE STRENGTH: Primary insulation,
tensile strength, 13.8 MPa (minimum). Elongation, 150% (minimum)

INSULATION FLAWS: Primary insulation, spark test, 1.5 kV (rms),
Impulse dielectric test, 6 kV (peak), 100% tests.
Finished wire, Impulse dielectric test, 8 kV (peak), 100% tests

LIFE CYCLE: 200±2°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65±2°C for 4 hours

SHRINKAGE: 300±2°C, 6.35 mm. (maximum) in 300 mm.

THERMAL SHOCK RESISTANCE: 150±2°C, 1.52 mm. (maximum)

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):
2500 volts (rms), 60 Hz, 5 minutes

APPROVAL:

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