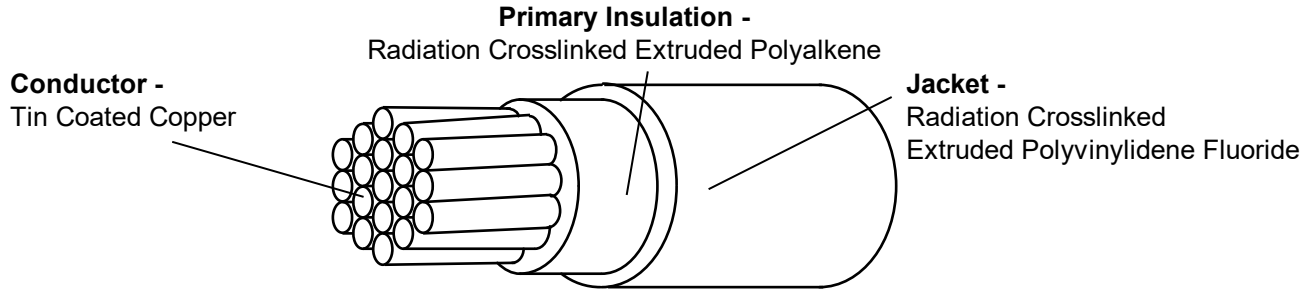


WIRE, ELECTRICAL, RADIATION-CROSSLINKED, MODIFIED FLUOROPOLYMER INSULATED, TIN COPPER CONDUCTOR, 150°C, 600 VOLT, LIGHTWEIGHT.

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



Part Description	Wire Size (AWG)	Conductor			FINISHED WIRE				
		Stranding No./AWG	Diameter (mm)		Maximum Resistance @20°C (Ω/km)	Outside Diameter (mm)			Maximum Weight (kg/km)
			Min.	Max.		Min.	Nom.	Max.	
44A0111-30-*	30	7/38	0.29	0.31	356	0.64	0.69	0.74	1.06
44A0111-28-*	28	7/36	0.36	0.38	225	0.71	0.76	0.81	1.43

Mandrel Diameter (mm ± 3%) Immersion			Weight (kg ± 3%) Immersion	
Life cycle and Accelerated ageing	Cold Bend	Wrap	Life cycle and Accelerated ageing	Cold Bend
9.5	9.5	4.8	0.11	0.23
9.5	9.5	4.8	0.11	0.23

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. 44A0111-30-9 White insulation

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
 Shrinkage: 300 ±2°C 3.17 mm Max. in 300 mm
 Blocking: 150 ±2°C for 24 hours
 Thermal Shock: 150 ±2°C, 1.52 mm Max.
 Flammability: 30 seconds Max.
 76 mm Max. no flaming tissue.
 Immersion: Diameter increase 5% Max.
 no cracking, no dielectric breakdown
 Elongation and Tensile Strength:
 Primary Insulation
 Elongation: 150% Min.
 Tensile Strength: 17.2 MPa Min.
 Insulation Resistance: 1500 MΩ/ km Min.
 Surface Resistance: 1.27 MΩ/ km Min.
 Both Readings

Insulation Flaws:
 Primary Insulation Spark Test: 1.5 kV (rms)
 Impulse Dielectric Test: 6.0 kV (peak) 100% test
 Finished Wire
 Impulse Dielectric Test: 8.0 kV (peak) 100% test
 Life Cycle: 200 ±3°C for 168 hours
 Low Temperature - Cold Bend:
 -65 ±2°C for 4 hours
 Voltage Withstand Test (Post Environmental):
 (After Accelerated Ageing, Immersion,
 Life Cycle and Low Temperature-Cold Bend)
 1 kV (rms) for 1 minute
 Smoke Test: 200±2°C, No visible smoke
 Solderability (95% Min. coverage): per MIL-STD-202,
 Method 208, except without steam-ageing, type RMA flux
 Wicking: 57.2 mm Max.
 Humidity Resistance: Insulation Resistance
 1500 MΩ/ km Min.

APPROVAL: Electronic sign off - no signatures will appear.