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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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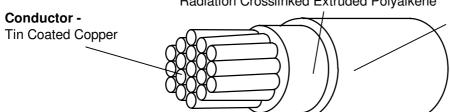


WIRE, ELECTRICAL, RADIATION-CROSSLINKED, MODIFIED FLUOROPOLYMER INSULATED, TIN COPPER CONDUCTOR, 150°C, 600 VOLT, LIGHTWEIGHT.

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

## **Primary Insulation -**

Radiation Crosslinked Extruded Polyalkene



Jacket -Radiation Crosslinked Extruded Polyvinylidene Fluoride

TABLE I. CONSTRUCTIONAL DETAILS												
Part	Wire	Conductor			FINISHED WIRE							
Description	Size	Stranding	Diameter		Maximum	Outside		Maximum				
	(AWG)	No./ AWG	(mm)		Resistance	Diameter		Weight				
					@20°C	(mm.)		(kg/km)				
			Min.	Max.	$(\Omega/km)$	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			

TABLE II. PERFORMANCE DETAILS									
	Mandrel Diameter (mm ± 3%)	Weight (kg ± 3%)							
	Immersion	Immersion							
Life cycle and	Cold	Wrap	Life cycle and	Cold					
Accelerated ageing	Bend		Accelerated ageing	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** To be tested in accordance with the issue in effect of QP-D-004 and

REQUIREMENTS: 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.

Voltage Withstand Test (Post Environmental):

2.5 kV (rms) for 5 minutes

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 M $\Omega$ / km Min.

APPROVAL: Electronic sign off - no signatures will appear.

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