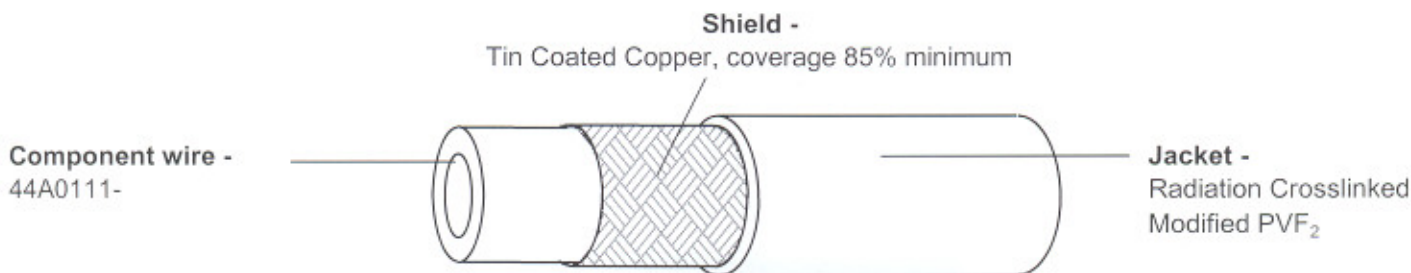


SINGLE CORE CABLE, RADIATION CROSSLINKED POLYALKENE INSULATED, SHIELDED AND JACKETED, LIGHTWEIGHT, 150°C, 600 VOLT.

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



Part Number	Wire Size	Shield Size (mm)	Jacket Thickness (mm)		Overall Diameter (mm)		Maximum Weight (kg/ km)
			Min	Nom	Target	Max	
44A1111-30-*-*	30	0.10	0.13	0.18	1.47	1.60	5.21
44A1111-28-*-*	28	0.10	0.13	0.18	1.55	1.68	5.80

CABLE PERFORMANCE DETAIL				
Part Number	Mandrel Diameter (mm ± 3%) Life Cycle, Immersion, Accelerated Ageing and Cold	Weight (kg ± 3%)		
		Life Cycle, Immersion and Accelerated Ageing	Cold Bend	
44A1111-30-*-*	38.1	0.06	0.68	
44A1111-28-*-*	44.5	0.09	0.80	

**COLOUR CODE:** The "\*" in the part number shall be replaced by a standard colour code designator in accordance with Mil Std 681.  
e.g. 44A1111-28-2-9, cores red, jacket white  
White preferred

**PERFORMANCE REQUIREMENTS:** To be tested in accordance with the issue in effect of QP-D-004 and meet the requirements of below:

Accelerated Ageing: 300 ± 3°C for 6 hours  
 Blocking: 150 ± 3°C for 6 hours  
 Dielectric Withstand: 2.5 kV (rms) for 1 minute  
 Flammability: 30 seconds Max.  
 76 mm Max. no flaming tissue.  
 Immersion: Diameter increase 5% Max.  
 no cracking, no dielectric breakdown  
 Jacket Elongation and Tensile Strength:  
 Elongation: 200% Min.  
 Tensile Strength: 27.6 N/ mm<sup>2</sup> Min.

Jacket Flaws:  
 Spark Test: 1.5 kV (rms) 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

DESIGN	PROD. MAN.	TECHNICAL	MANUFACTURE
<i>[Signature]</i> 28th July 2004	<i>[Signature]</i> 28/07/04	<i>[Signature]</i> 28/7/04	<i>[Signature]</i> 28/7/04