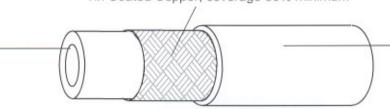
## SINGLE CORE CABLE, RADIATION CROSSLINKED POLYALKENE INSULATED. SHIELDED AND JACKETED, LIGHTWEIGHT, 150°C, 600 VOLT.

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

## Shield -

Tin Coated Copper, coverage 85% minimum

Component wire -44A0111-



Jacket Thickness

(mm)

Overall Diameter (mm)		Maximum Weight
arget	Max	(kg/km)

Jacket -

Modified PVF2

Radiation Crosslinked

41 4.1
k (kg/ km
5.21
5.80

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

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

Wire

Size

Shield

Size

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

Part

Number

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/ mm2 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

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