

1. CONDUCTOR

Material: Silicone Blocked Tin Plated Copper
 Construction: 16 AWG 19/29
 Diameter: 1.37 mm, nom.

2. INSULATION

Material: Crosslinked Polyethylene
 Wall thickness: 0.62 mm, nom.
 Diameter: 2.62 mm, nom.
 Color standard: SAE
 Marking: None

3. PHYSICAL CHARACTERISTICS

Temperature rating: -50° C to 125° C
 Voltage rating: 600 V
 Weight: 17.3 kg/km, nom.

4. PERFORMANCE PROPERTIES

Mechanical – MIL 16878

Tensile Strength

Unaged 12.4 MPa, min.
 Aged (96 hr @ 135° C) 25% change, max.

Elongation

Unaged 100%, min.
 Aged (96 hr @ 135° C) 25% change, max.

Adhesion

50 mm slug @ 50 mm/min 13 N, min.

Thermal

Cold Bend (4 hr @ -55° C)
 No Cracks, Pass Dielectric

Electrical

Dielectric Withstand 60 s, 60 Hz, 6.0 kV
 Spark Test 8.0 kV

Environmental

Directive 2002/95/EL(RoHS) Complies

PERFORMANCE PROPERTIES (Con't)

Anticapillary Action

Test 1

Fill 6 test tubes to 25 mm with dyed distilled water. From the sample, cut 6 specimens to 142 mm with 10 mm stripped on each end and place a specimen in each tube with the stripped end submerged. Connect one end of each specimen to the vacuum and apply a vacuum of 100 mm Hg to each specimen for 1 hr. (See Fig. 1) Remove each specimen and allow it to dry. After the outside of the specimens are dry, slice off insulation for evidence of wicking up the conductor and/or inside surface of the insulation. Fluid shall not travel up the conductor more than 20 mm.

Test 2 (Initial Qualification Only)

Condition cable 48 hours at 165° C prior to performing Test 1.

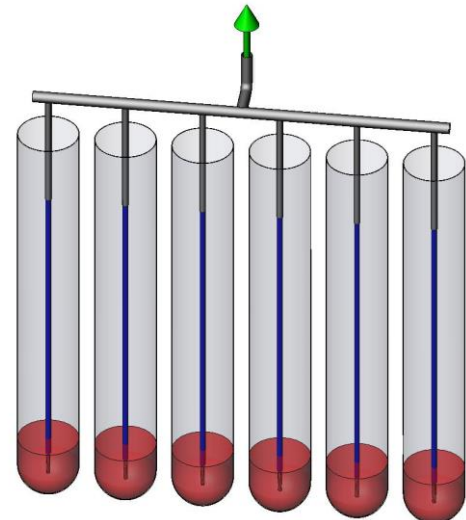


Figure 1: Anticapillary Test Set-up

5. REFERENCE SPECIFICATION

MIL 16878

The European Parliament and the Council of the European Union Directive 2002/59/EC



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Date	Rev	By	Appr'	ECN
08/12/10	---	ARJP	EJK	---
03/10/15	A	CHU	RMB	15-1585
Customer Approval:				

Description: HOOKUP, TPC, SILICONE BLOCKED, XLPE, 125° C, 600V	
Specification Number: JW1353-10	Page: 1 of 1