

1. CONDUCTOR

Material: Silicone Blocked Tin Plated Copper
 Construction: 18 AWG 19/30
 Diameter: 1.25 mm, nom

2. INNER INSULATION

Material: Crosslinked Polyethylene
 Wall thickness: 0.93 mm, nom
 Diameter: 3.10 mm ± 0.05 mm
 Color: See Table 1
 Marking: None

3. PHYSICAL CHARACTERISTICS

Temperature rating: -50°C to 125°C
 Voltage rating: 600 V
 Weight: 17.8 kg per km, nom

4. PERFORMANCE PROPERTIES

Mechanical

Tensile Strength

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

Elongation

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

Anticapillary

Pressure Test

Prepare a 150mm sample of wire. Place one end in a water bath. Apply 250 KPa gauge for 60 sec to the other end.

Requirement: No air bubble present.

Thermal

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

Electrical

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

Environmental

Directive 2002/95/EL(RoHS) Complies

5. REFERENCE SPECIFICATION

MIL 16878
 Caterpillar Inc. 8C-7582
 Caterpillar Inc. 8C-7583
 Caterpillar Inc. 8C-7584

Table 1

Color	Specification
Black	8C-7584
Orange	8C-7583
White	8C-7582



JUDD WIRE INC.
 124 Turnpike Road
 Turners Falls, MA 01376
 (413) 863-4357

Date	Rev	By	Appr'd	ECN	Description:	Page:
03/05/98	A	LRW	ECJ	—	HOOKUP, 18 AWG, SILICONE BLOCKED, XLPE, 125C, 600V	1 of 1
01/05/06	B	EJK	GBM	06-127		
07/07/06	C	EJK	GBM	06-165		
Customer Approval:					JW568-98	