

1. CONDUCTOR

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

Table 1

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

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



JUDD WIRE INC.
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Date	Rev	By	Appr'd	ECN
03/05/98	A	LRW	ECJ	---
01/05/06	B	EJK	GBM	06-127
07/07/06	C	EJK	GBM	06-165
Customer Approval:				

Description: HOOKUP, 18 AWG, SILICONE BLOCKED, XLPE, 125C, 600V	
Specification Number: JW568-98	Page: 1 of 1