

1. CONDUCTOR

Material: Silicone Blocked Tin Plated Copper
 Construction: See Table 1
 Diameter: See Table 1

2. INSULATION

Material: Crosslinked Polyethylene
 Wall thickness: See Table 1
 Diameter: See Table 1
 Color: SAE Color Standard

3. PHYSICAL CHARACTERISTICS

Temperature rating: 125°C
 Voltage rating: 60 V_{DC}
 Weight: See Table 1

4. PERFORMANCE PROPERTIES

Mechanical - SAE J1128 – GXL

Tensile Strength

Unaged 10.34 MPa, min

Aged (168 hrs @ 155 °C) 80% retention, min

Elongation

Unaged 150%, min

Aged (168 hrs @ 155 °C) 50% retention, min

Crosslink Verification

Core Not Visible

Anticapillary Action

Test 1

Fill a test tube to 25mm with ATF. From the sample, cut 6 specimens to 142mm with 10mm stripped and place in the tube. Apply a vacuum of 100mm Hg through the stopper for 1 hr. After outside of 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 20mm.

Test 2

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

PERFORMANCE PROPERTIES (cont'd)

Adhesion (50mm Slug @ 50 mm/min) 17.8 N – 48.9 N

Abrasion See Table 1

Pinch Resistance See Table 1

Thermal - SAE J1128 – GXL

Flame Resistance 70 sec burn, max

Cold Bend (3 hrs @ -40 °C)
 No Cracks or Splits, Pass Dielectric Test

Electrical - SAE J1128 – GXL

Dielectric Test 1000V, 60 Hz, 60 Sec

Spark Test 2500V

Conductor (ASTM B3)

DCR See Table 1

Chemical - SAE J1128 – GXL

Ozone Resistance No Cracks

Fluid Compatibility

Engine Oil (IRM 902) 15%

Gasoline (Ref. Fuel C) 15%

Ethanol / Ref. Fuel C Mixture 15%

Diesel Fuel 15%

Power Steering (IRM 903) 30%

Auto Trans. (Dextron III) 25%

Engine Coolant 50/50 15%

Battery Acid (sp. Gr. ~ 1.26) 5%

5. REFERENCE SPECIFICATION

SAE J1128

Mercury Marine 84-858280



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

Date	Rev	By	Appr'd	ECN
02/12/08	---	ARJP	EJK	---
07/30/08	B	ARJP	EJK	08-416
11/11/08	C	ARJP	EJK	08-484

Customer Approval:

Description:

**HOOKUP, XLPE, THIN WALL,
 SILICONE BLOCKED**

Specification Number:

JW1197-08

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Table 1

Conductor			DCR (mΩ/m), max	Wall Thickness (mm)		OD (mm)	Abrasion Resistance		Pinch Resistance (kg)	Weight (kg/km)
Size (mm ²)	Construction (#/mm)	OD (mm)		Min	Nom		Mass (kg)	Length (mm)		
0.80	19/.25	1.24	24.9	0.41	0.61	2.46	0.45	410	4.1	13.9
1.00	19/.28	1.37	15.3	0.41	0.58	2.54	0.45	420	4.7	17.0



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