

1. CONDUCTOR

Material: Silicone Blocked Bare Annealed Copper
 Construction: See Table 1
 Diameter: See Table 1

2. INSULATION

Material: Irradiation Cross-linked Polyolefin
 Wall thickness: See Table 1
 Diameter: See Table 1
 Color: Per Customer Requirement, SAE J1128
 Marking:
 GXL ** AWG ANTICAPILLARY JUDD WIRE INC.

** Notation Indicates Gauge Size

3. PHYSICAL PROPERTIES

Temperature Rating: 135°C
 Voltage Rating: 50V

4. PERFORMANCE PROPERTIES

Mechanical
 Tensile Strength 1450 PSI
 Elongation 150%
 Pinch Resistance Pass GXL Requirement
 Sandpaper Abrasion Resistance Pass GXL Requirement
 Crosslinking Core not visible, pass Dielectric Test
 Blocking
 Fill a test tube to 1" with dyed distilled water. From the sample, cut 6 specimens to 5.6" with 0.4" stripped and place in the tube. Apply a vacuum of 4" Hg is pulled 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 Max: 0.6" fluid travel above the test-tube water level.

PERFORMANCE PROPERTIES (cont'd)

Adhesion TBD
 Thermal
 Flame Resistance 70 Sec
 Accelerated Aging Test
 Tensile Strength Value 80% of Original
 Elongation Value 50% of Original
 Cold Bend No Cracks or Splits, Pass Dielectric Test
 Electrical
 Dielectric Test 1000V, 60 Hz, 60 Sec
 Chemical
 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. (Dexron III) 25%
 Engine Coolant 50/50 15%
 Battery Acid (sp. Gr. ~ 1.26) 5%

5. REFERENCE SPECIFICATION

SAE J1128

Table 1

Conductor Stranding	Blocking Agent	Conductor Nominal O.D.	SAE J1128 Type	Target Wall	Finished O.D.
14 AWG 19/27	Silicone	0.070 in.	GXL	0.024 in.	0.118 in. +/- 0.002 in.
16 AWG 19/29	Silicone	0.054 in.	GXL	0.023 in.	0.100 in. +/- 0.002 in.



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

Date	Rev	By	Appr'd	ECN
08/28/02	A	MA	MG	---
02/18/04	B	EK	GM	04-006
03/22/04	C	EK	GM	04-019
Customer Approval:				

Description: Automotive Wire, Low Tension, Irradiation Crosslinked 135 C Polyolefin, Silicone Blocked Conductor	
Specification Number: JW853-02	Page: 1 of 1