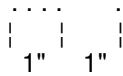


**1. CONDUCTOR**

Material: Prebond Tinned Copper  
 Construction: 20 AWG 19/32  
 Diameter: 0.038"

**2. INSULATION**

Material: Cross-linked Polyethylene  
 Wall thickness: 0.016" nom  
 Diameter: 0.069" ± 0.002"  
 Color: Customer Specified, per SAE J1128  
 Marking:



(Tolerance on each 1" spacing shall be +/- 1/8")

**3. PHYSICAL CHARACTERISTICS**

Temperature rating: 150°C  
 Weight: 5.36 lbs per 1000', nom

**4. PERFORMANCE PROPERTIES**

Mechanical – SAE J1128

Tensile Strength

Unaged 10 MPa, min  
 Aged (168 hrs @ 180°C) 80% retention, min

Elongation

Unaged 150%, min  
 Aged (168 hrs @ 180°C) 50% retention, min

Crosslink Verification (Hot Plate Method)

Core Not Visible

Pinch Resistance 2.7 Kg., min.

Abrasion Resistance 0.45 Kg, 250mm, min.

Adhesion (50mm slug @ 50mm/min.) 18N to 65N

Electrical – SAE J1128

Dielectric Strength 60 Sec, 60 Hz, 1000V

Spark Test 3000 Vac

Conductor – ASTM B470

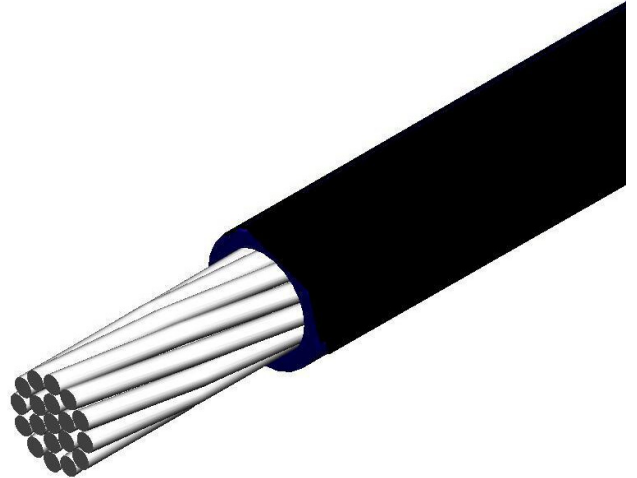
DC Resistance 31.5 mOhms/m, max.

Thermal – SAE J1128

Flame Resistance 70 Sec Burn, max

Cold Bend (3 hrs @ -40°C)

No Cracks or Splits, Pass Dielectric Test



**PERFORMANCE PROPERTIES (cont'd)**

Chemical – SAE J1128

Ozone Resistance No Cracks or Splits

Fluid Compatibility

Pass Dielectric Strength After Immersion

O.D. Change, max

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 VI) 25%

Engine Coolant 50/50 15%

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

**5. REFERENCE SPECIFICATION**

ASTM B470

SAE J1128



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

Date	Rev	By	Appr'd	ECN	Description: <b>HOOKUP, 20 AWG, PBC, XLPE</b>	
02/05/04	---	GBM	MTG	---		
01/20/12	A	RTB	RMB	12-1079		
Customer Approval:					Specification Number: <b>JW1004-04</b>	Page: 1 of 1