

1. CONDUCTOR

Material: Bare Copper
Construction: 3.00mm² 65/.24
Diameter: 2.08 mm, nom

2. INSULATION

Material: Cross-linked Polyethylene
Wall thickness: 0.69 mm, nom
Diameter: 3.48 mm, nom
Color: Munsell Color Standard
Marking: None

3. CABLE

Items: Three (3) Primaries
Color: Black x White x Green
Lay: 63.5 mm, nom, L.H.L.
Diameter: 7.49 mm, nom

4. SEPARATOR

Material: 0.025 mm Clear Polyester
Overlap: 25% min
Diameter: 7.57 mm, nom

5. JACKET

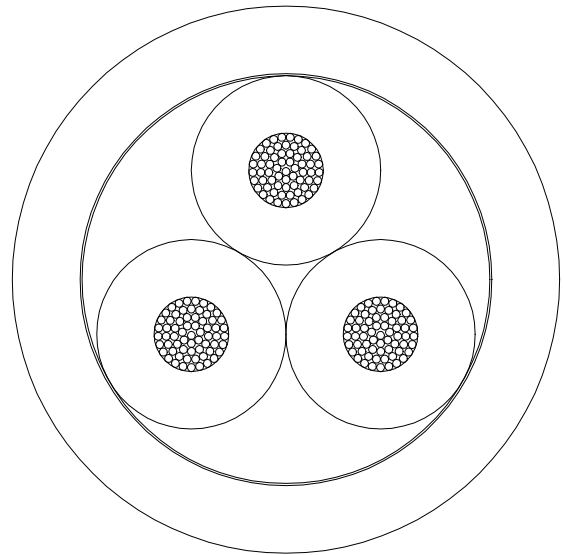
Material: Cross-linked Polyethylene
Wall Thickness: 1.24 mm, nom
Diameter: 10.1 mm, nom
Color: Black
Marking: None

6. PHYSICAL CHARACTERISTICS

Temperature rating: 125°C
Voltage rating: 60V
Weight: 152 kg per km, nom

**7. PERFORMANCE PROPERTIES
PRIMARIES – J1128 Type GXL**

Mechanical
Tensile Strength
Unaged 10 MPa, min
Aged (168 hrs @ 155°C) 80% retention, min
Elongation
Unaged 150% min
Aged (168 hrs @ 155°C) 50% retention, min
Adhesion (50 mm slug @ 500 mm/min) TBD
Pinch Resistance 7.2 kg, min
Sandpaper Abrasion Resistance
1.40 kg, 280 mm, min
Shrinkage None Allowed
Crosslink Verification (Hot Plate Method)
Core Not Visible, Pass Dielectric



PERFORMANCE PROPERTIES (cont'd)

Thermal
Flame Resistance 70 Sec Burn, max
50 mm unburned, min
Cold Bend (3 hrs @ -40°C ± 2°C)
No Cracks or Splits, Pass Dielectric Test
Electrical
Conductor Resistance 6.13 mOhms/m
Dielectric Test 1000V, 60 Hz, 60 Sec
Spark Test 5000V
Chemical
Ozone Resistance No Cracks
Fluid Compatibility 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 III) 25%
Engine Coolant 50/50 15%
Battery Acid (sp. Gr. ~ 1.26) 5%

**PERFORMANCE PROPERTIES
JACKET – SAE J2501**

Mechanical
Tensile Strength
Unaged 10 MPa, min
Aged (168 hrs @ 155°C) 80% retention, min
Elongation
Unaged 150% min
Aged (168 hrs @ 155°C) 50% retention, min



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

Date	Rev	By	Appr'd	ECN
11/21/07	---	ARJP	EJK	---

Customer Approval:

Description:
**3C 12 AWG BC XLPE MY XLPE,
60V, 125°C**

Specification Number: **M06962**
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PERFORMANCE PROPERTIES (con't)

Adhesion TBD
Abrasion TBD

Electrical

Dielectric Strength 1000V, 60 Hz, 3 Sec
Spark Test 5000V

Thermal

Flame Resistance (45°) 70 Sec Burn, max
Low Temperature Winding (4 hrs @ -40 °C)
No Cracks, Pass Dielectric Test

Chemical

Ozone Resistance No Cracks
Fluid Compatibility 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 III) 25%
Engine Coolant 50/50 15%
Battery Acid (sp. Gr. ~ 1.26) 5%

9. REFERENCE SPECIFICATION

J1128
J2501



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