

1. CONDUCTOR

Material: Top Coated Copper
 Construction: 22 AWG 7/30
 Diameter: 0.031" nom

2. INSULATION

Material: Crosslinked Polyethylene (XLPE)
 Wall thickness:
 Nominal: 0.0365"
 Minimum: 0.026"
 Min. Average: 0.029"
 Diameter: 0.104" ± 0.002"
 Color: Black

3. SPIRAL SHIELD

Material: 36 AWG Tin Plated Copper
 Coverage: 70% min
 Diameter: 0.114" nom

4. JACKET

Material: Polyvinyl Chloride
 Wall thickness:
 Nominal: 0.0255"
 Minimum: 0.020"
 Min. Average: 0.024"
 Diameter: 0.165" ± 0.003"
 Color: Black
 Marking: RU AWM 3239 105C 15KVDC VW-1
 JUDD WIRE 22 AWG ROHS

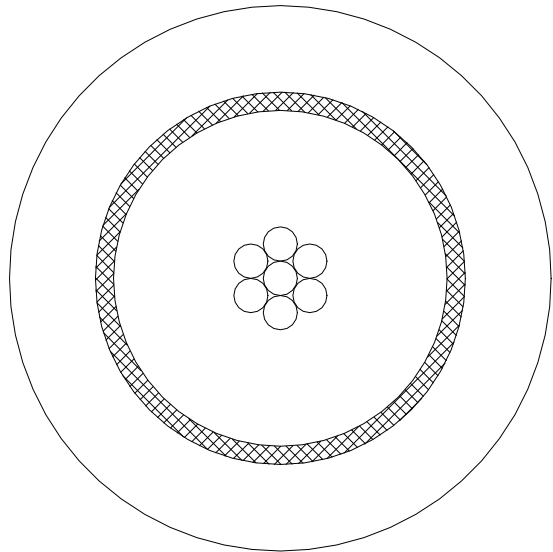
5. PHYSICAL CHARACTERISTICS

Temperature rating: 105 °C
 Voltage Rating: 15000 V_{DC}
 Weight: 19.3 lbs per 1000', nom

6. PERFORMANCE PROPERTIES INSULATION

Mechanical
 Tensile Strength – UL 1581
 Unaged 1500 psi, min
 Aged (168 hrs @ 136°C) 70% retention, min
 Elongation – UL 3239
 Unaged 150%, min
 Aged (168 hrs @ 136°C) 50% retention, min
 Deformation – UL 758
 (1hr @ 121°C, 250g) 50% thickness decrease, max

Thermal – UL 758
 Cold Bend (4 hrs @ -15°C) No Cracks
 Heat Shock (1 hr @ 136°C) No Cracks
 Shrinkage – UL 1581
 (18 hrs @ 136°C) 0.12", max
 Flame
 VW-1 60 sec, max



PERFORMANCE PROPERTIES (cont'd)

Electrical – UL 758
 High Voltage Dielectric Test (Method I)
 Unaged 30 min @ 30.0 kV_{DC}
 Aged (168 hrs @ 136°C) 30 min @ 30.0 kV_{DC}
 High Voltage Dielectric Test (Method II)
 Unaged 7 hrs @ 18.75 kV_{DC}
 Aged (168 hrs @ 136°C) 7 hrs @ 18.75 kV_{DC}
 High Voltage Cut-Through Spark Test 7 hrs @ 22.5 kV_{DC}
 12.5 kV_{ac}

Chemical
 Ozone Resistance No Cracks
 (3 hrs @ 25°C, 0.010% to 0.015% Concentration)
 Environmental
 Directive 2002/95/EC(RoHS) Complies

JACKET
 Mechanical – UL 1581
 Tensile Strength
 Unaged 1500 psi, min
 Aged 70% retention, min
 Elongation
 Unaged 100%, min
 Aged 45% retention, min

CABLE
 Environmental
 Directive 2002/95/EC(RoHS) Complies



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

Date	Rev	By	Appr'd	ECN
05/25/06	---	FJC	EJK	---
01/31/08	A	ARJP	EJK	08-327
Customer Approval:				

Description: COAX, 1/C 22/7 TOP, XLPE, SSH, PVC, 15KV	
Specification Number: JW1117-06	Page: 1 of 2

7. REFERENCE SPECIFICATION

UL AWM style 3239

UL Standard 758

UL Standard 1581

The European Parliament and the Council of the

European Union Directive 2002/95/EC



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Description:

**COAX 1/C 22/7 TOP, XLPE,
SSH, PVC**

Specification Number:

JW1035-04

Rev:

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