



1. COMPONENT A

1.1. CONDUCTOR

Material: Tin Plated Copper
 Construction: 18 AWG 41/34
 Diameter: 0.045" nom

1.2. INSULATION

Material: Crosslinked Polyvinylchloride
 Wall thickness
 Nominal: 0.012"
 Minimum: 0.008"
 Minimum Average: 0.010"
 Diameter: 0.069" nom
 Color: Black, Green, White
 Marking: None

2. COMPONENT B

2.1. CONDUCTOR

Material: Tin Plated Copper
 Construction: 22 AWG 19/34
 Diameter: 0.030" nom

2.2. INSULATION

Material: Crosslinked Polyvinylchloride
 Wall thickness
 Nominal: 0.011"
 Minimum: 0.008"
 Minimum Average: 0.010"
 Diameter: 0.051" nom
 Color: Red, Brown, Yellow, Orange, Blue

3. CABLE

of items: Three (3) Component A, Five (5) Component B, Filler (F) and One (1) Drain Wire
 Lay: 1.75" nom, L.H.L.
 Diameter: 0.200" nom

4. BINDER

Material: 0.001" Clear Polyester Tape
 Overlap: 25% min, L.H.L.
 Diameter: 0.205" nom

5. DRAIN WIRE

Material: Tin Plated Copper
 Construction: 22 AWG 19/34
 Diameter: 0.030" nom

6. BRAID SHIELD

Material: 34 AWG Tin Plated Copper
 Coverage: 80% min
 Diameter: 0.231" nom

7. JACKET

Material: Polyvinylchloride
 Wall thickness: 0.020" nom
 Diameter: 0.270" nom, 0.282" max
 Color: Black
 Marking: JUDD WIRE P/N M02985 ROHS

8. PHYSICAL CHARACTERISTICS

Temperature rating: 80°C
 Voltage rating: 300 Volts
 Weight: 63.2 lbs per 1000', nom



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

Date	Rev	By	Appr'd	ECN
07/14/05	---	EJK	GBM	---
04/09/09	E	ARJP	EJK	09-559
02/25/16	F	CJS	GT	16-1667
Customer Approval:				

Description: 8C COMP XLPVC MY DW BSH PVC 300 V, 80C	
Specification Number: M02985	Page: 1 of 2

9. PERFORMANCE PROPERTIES

PRIMARIES

Mechanical

Tensile – UL 1581
 Unaged 2500 psi, min
 Aged (168 hrs @ 136°C) 70% retention, min
 Elongation – UL 1581
 Unaged 100%, min
 Aged (168 hrs @ 136°C) 45% retention, min
 Deformation – UL 758
 (1 hr @ 136°C) 250g, 50% max decrease in thickness
 Crush Resistance – UL 758 600 lb, min

Electrical

Dielectric Withstand I
 Unaged 60 sec, 60 Hz, 1500V
 Aged (168 hrs @ 136°C) Greater than 50% of average unaged breakdown voltage
 Dielectric Withstand II
 Unaged 60 sec, 60 Hz, 1500V
 Aged (168 hrs @ 136°C) 60 sec, 60 Hz, 1500V
 Dielectric Withstand III
 Conditioned 24 hrs in water
 60 sec, 60 Hz, 1500V

Thermal – UL 758

Cold Bend (4 hrs @ -10°C) No Cracks
 Heat Shock (1 hr @ 121°C) No Cracks
 Horizontal Flame Test Shall not ignite cotton

PERFORMANCE PROPERTIES (cont'd)

JACKET

Mechanical

Tensile – UL 1581
 Unaged 1500 psi, min
 Aged (168 hrs @ 113°C) 70% retention, min
 Elongation – UL 1581
 Unaged 100%, min
 Aged (168 hrs @ 113°C) 45% retention, min
 Deformation – UL 758
 (1 hr @ 113°C) 250g, 50% max decrease in thickness

Thermal – UL 758

Cold Bend (4 hrs @ -10°C) No Cracks
 Heat Shock (1 hr @ 121°C) No Cracks
 Horizontal Flame Test Shall not ignite cotton

Cable

Environmental
 Directive 2002/95/EC(RoHS) Complies

10. REFERENCE SPECIFICATION

UL AWM Style 3443 (Primaries Only)
 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:

**8C COMP XLPVC MY DW BSH
PVC 300 V, 80C**

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M02985

Rev:

F

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