

1. COMPONENT A

1.1. CONDUCTOR

Material: Tin Plated Copper
 Construction: 18 AWG 16/30
 Diameter: 0.047" nom

1.2. INSULATION

Material: Cross-linked Polyvinylchloride
 Wall thickness: 0.011" nom
 Diameter: 0.068" nom
 Color: Munsell Color Standard
 Marking: None

1.3. CABLE

Items: Three (3) Primaries
 Color: Red x White x Black
 Lay: 2.00" L.H.L.
 Diameter: 0.146" nom

1.4 DRAIN WIRE

Material: Tin Plated Copper
 Construction: 20 AWG 7/28
 Diameter: 0.038" nom

1.5 TAPE SHIELD

Material: 0.001" Aluminum Mylar
 Overlap: 25% min, R.H.L. (Foil Side Down)
 Diameter: 0.149" nom

2. COMPONET B

2.1. CONDUCTOR

Material: Tin Plated Copper
 Construction: 14 AWG 41/30
 Diameter: 0.071" nom

2.2. INSULATION

Material: Cross-linked Polyvinylchloride
 Wall thickness: 0.011" nom
 Diameter: 0.092" nom
 Color: Munsell Color Standard
 Marking: None

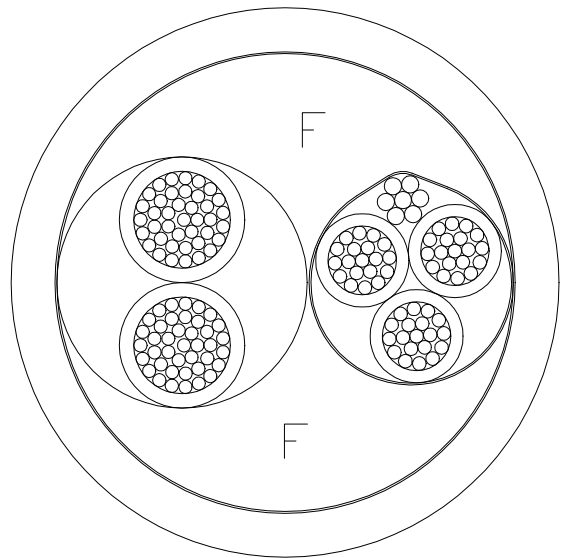
2.3. PAIR

Lay: 2.50" L.H.L.
 Diameter: 0.183" nom
 Color: Red x Black

3. OVERALL CABLE

3.1. CABLE

Items: One (1) Component A, One (1)
 Component B, Filler (F) as necessary
 Lay: 4.25" nom
 Diameter: 0.285" nom



3.2. TAPE SHIELD

Material: 0.001" Aluminum Mylar
 Overlap: 50% min, R.H.L.
 Diameter: 0.288", nom

3.3. JACKET

Material: Polyvinylchloride
 Wall Thickness: 0.032" nom
 Diameter: 0.352" nom
 Color: Black
 Marking: None

4. PHYSICAL CHARACTERISTICS

Temperature rating: 105°C
 Voltage rating: 600V
 Weight: 78.4 lbs per 1000', nom

5. PERFORMANCE PROPERTIES

PRIMARIES – MIL-DTL-16878

Mechanical

Tensile Strength	1800 psi, min
Elongation	100%, min
Concentricity	70%, min

Thermal

Cold Bend (4 hrs @ -55 +/- 1°C)	No Cracks
Heat Age (96 hrs @ 135°C)	25% Change, max
Heat Resistance (150°C)	No Cracks, Pass Dielectric

Flame Test (UL 1581)	VW-1
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JUDD WIRE INC.
 124 Turnpike Road
 Turners Falls, MA 01376
 (413) 863-4357

Date	Rev	By	Appr'd	ECN
11/02/07	---	ARJP	EJK	---
1/19/09	A	ARJP	EJK	09-522
Customer Approval:				

Description: 5C COMP XLPVC DW AS XLPVC AS PVC 600V 105°C	
Specification Number: M03222	Page: 1 of 2

PERFORMANCE PROPERTIES (con't)

Electrical

Conductor Resistance (20 °C)	
18 AWG	7.68 Ohms/kft, max
14 AWG	2.94 Ohms/kft, max
Insulation Resistance (20 °C)	
Component A	346.0 MOhms/kft, min
Component B	243.7 MOhms/kft, min
Impulse Dielectric	8.0 kV
Dielectric Withstand	2.0 kV
Spark	3.4 kV

PERFORMANCE PROPERTIES

JACKET – UL 1581

Mechanical

Tensile Strength	
Unaged	1500 psi, min
Aged (168 hrs @ 136°C)	70% retention, min
Elongation	
Unaged	100%, min
Aged (168 hrs @ 136°C)	65% retention, min

5.0 REFERENCE SPECIFICATION

MIL-DTL-16878/1C
UL 1581



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**5C COMP XLPVC DW AS
XLPVC AS PVC 600V 105°C**

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