

1. CONDUCTOR

Material: Tin Plated Copper
Construction: See Table 1
Diameter: See Table 1

2. INSULATION

Material: Irradiated Polyvinylchloride (XLPVC)
Wall thickness:
Minimum: 0.013"
Minimum Average: 0.015"
Nominal: 0.017"
Diameter: See Table 1
Color: Munsell Color Standard
Marking: RU AWM 1430 105C 300V VW-1 JUDD
WIRE CSA REW XLPVC 105C 300V FT1
XX AWG ROHS

XX – Denotes Gauge Size

3. PHYSICAL CHARACTERISTICS

Temperature rating: 105°C
Voltage rating: 300V
Weight: See Table 1

**4. PERFORMANCE PROPERTIES
PRIMARIES**

Mechanical

Tensile – CSA C22.2 No. 210
Unaged 2000 psi, min
Aged (168 hrs @ 136°C) 70% retention, min
Elongation – CSA C22.2 No. 210
Unaged 100%, min
Aged (168 hrs @ 136°C) 50% retention, min
Deformation – UL 758
1 hr @ 121°C
250 g, 50% max decrease in thickness
Crush Resistance – UL 758
600 lbs, min
Slow Compression – CSA C22.2 No. 210.2-M90
1 hr @ 23°C Pass

PERFORMANCE PROPERTIES(cont'd)

Thermal

Cold Bend – CSA C22.2 No. 210
4 hrs @ -15°C No Cracks
Heat Shock – UL 758
1 hr @ 136°C No Cracks
Flame Test – UL 758 & CSA C22.2 No 127-99
VW-1 60 sec max
FT1 60 sec max
Shrinkback Test
Temperature 260°F, Min
275°F, Nom
300°F, Max
Duration 20 Sec
Test Piece 4"
Strip End Strip 1 End
Strip Length 0.156" ± 0.010"
Test Measure Amount of Movement
Requirement 0.010", Max

Electrical – UL 758

Dielectric Withstand I
Unaged 60 sec, 60 Hz, 2000 V
Aged (168 hrs @ 136°C)
Greater than 50% of average
unaged breakdown voltage
Dielectric Withstand II
Unaged 60 sec, 60 Hz, 2000 V
Aged (168 hrs @ 136°C) 60 sec, 60 Hz, 2000 V
Dielectric Withstand III
Conditioned 24 hrs in water
60 sec, 60 Hz, 2000 V
Dielectric Strength – CSA 22.2 No. 210
Post Cold Bend (Conditioned 1 hr in Water)
60 sec, 60 Hz, 1500 V
Post Heat Shock (Conditioned 1 hr in Water)
60 sec, 60 Hz, 1500 V
Spark Test 3000 V

Environmental

Directive 2002/95/EC (RoHS) Complies

5. REFERENCE SPECIFICATIONS

UL AWM Style 1430
CSA – C22.2 No. 210 AWM I A/B
UL Standard 758
UL Standard 1581
The European Parliament and the Council of the
European Union Directive 2002/95/EC



JUDD WIRE INC.
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Date	Rev	By	Appr'd	ECN
10/28/08	---	EJK	ARJP	---
03/17/17	F	CJS	GT	17-1787
06/20/17	G	CJS	GT	17-1822
Customer Approval:				

Description: HOOKUP, XLPVC, UL 1430/CSA AWM, 105C, 300V	
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Table 1

Size	Stranding	Conductor Diameter, in.	Insulated Diameter, in.			Weight, lbs/kft
		Nominal	Minimum	Nominal	Maximum	Nominal
26	7/34	0.019	0.051	0.053	0.055	2.05
24	7/32	0.024	0.053	0.056	0.059	2.56
24	19/36	0.025	0.053	0.057	0.059	2.68
22	7/30	0.029	0.060	0.062	0.064	3.63
22	19/34	0.030	0.060	0.062	0.064	3.63
20	19/32	0.038	0.070	0.072	0.074	5.40
18	7/26	0.048	0.080	0.082	0.083	7.61
18	16/30	0.048	0.079	0.081	0.083	7.61
18	19/30	0.048	0.079	0.081	0.083	7.63
16	19/.0117"	0.056	0.088	0.090	0.092	10.2
16	26/30	0.055	0.086	0.088	0.090	10.1



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