

1. CONDUCTOR

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

2. INSULATION

Material: Cross-linked polyethylene
 Wall thickness:
 Minimum: 0.014"
 Min Average: 0.015"
 Diameter: See Table 1
 Color: Customer Specified
 Marking:

RU AWM 3266 125C 300V VW-1 JUDD WIRE CSA
 AWM I A/B 125C 300V FT1 ROHS

3. PHYSICAL CHARACTERISTICS

Temperature rating: 125°C
 Voltage rating 300 V
 Weight: See Table 1

4. PERFORMANCE PROPERTIES

Mechanical

Tensile – UL 1581
 Unaged 2000 psi, min
 Aged (168 hrs @ 158°C) 80% retention, min
 Elongation – UL 1581
 Unaged 300%, min
 Aged (168 hrs @ 158°C) 80% retention, min
 Deformation – UL 758
 1 hr @ 121°C 250 g, 50% thickness decrease, max
 Crush Resistance – UL 758 600 lb, min
 Slow Compression – CSA C22.2 No. 210.2-M90
 1 hr @ 23°C See Table 1

Thermal

Cold Bend – CSA C22.2 No. 210.2-M90
 4 hrs @ -15°C
 No Cracks, Pass Dielectric Strength
 Heat Shock – CSA C22.2 No. 210.2-M90
 1 hr @ 158°C
 No Cracks, Pass Dielectric Strength

Flame – UL 758 & CSA C22.2 No. 210.2-M90
 VW-1 60 sec burn, max
 FT-1 60 sec burn, max

PERFORMANCE PROPERTIES (cont'd)

Electrical

Dielectric Withstand I – UL 758
 Unaged 60 sec, 60 Hz, 2000 V
 Aged (168 hrs @ 158°C) Greater than 50% of average unaged breakdown voltage
 Dielectric Withstand II – UL 758
 Unaged 60 sec, 60 Hz, 2000 V
 Aged (168 hrs @ 158°C) 60 sec, 60 Hz, 2000 V
 Dielectric Withstand III – UL 758
 Conditioned 24 hrs in water 60 sec, 60 Hz, 2000 V
 Dielectric Strength – CSA C22.2 No. 210.2-M90
 Post Cold Bend (Conditioned 1 hr in water) 60 sec, 60 Hz, 1000 V
 Post Heat Shock (Conditioned 1 hr in water) 60 sec, 60 Hz, 1000V
 Spark test 3 kV

Environmental

Directive 2002/95/EC(RoHS) Complies

5. REFERENCE STANDARDS

UL Subject 758, Style 3266
 CSA-C22.2 No. 210.2-M90 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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 Turners Falls, MA 01376
 (413) 863-4357

Date	Rev	By	Appr'd	ECN
12/9/13	--	EM	GT	---
Customer Approval:				

Description: HOOK-UP WIRE, XLPE, UL/CSA AWM	
Specification Number: JW1527-13	Page: 1 of 2

Table 1

Size AWG	Strands	Conductor		Insulation			
		Diameter		Diameter		Slow Comp.	Weight Nom
		Strand	Overall	Min	Max		
14	41	0.010"	0.071"	0.106"	0.110"	337 lbs	15.9 lbs/kft
16	19	0.017"	0.056"	0.087"	0.093"	337 lbs	10.4 lbs/kft
18	19	0.010"	0.048"	0.076"	0.082"	337 lbs	7.90 lbs/kft
20	19	0.008"	0.038"	0.070"	0.076"	337 lbs	5.55 lbs/kft
22	19	0.0063"	0.030"	0.060"	0.064"	292 lbs	3.75 lbs/kft
24	19	0.005"	0.025"	0.055"	0.059"	247 lbs	2.72 lbs/kft
24	7	0.008"	0.024"	0.054"	0.058"	247 lbs	2.63 lbs/kft
26	7	0.0063"	0.019"	0.049"	0.053"	202 lbs	1.94 lbs/kft



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