

1. CONDUCTOR

Material: Bare Copper
Construction: 14 AWG 7 x 59/40
Diameter: 0.084" nom

2. INSULATION

Material: Radiation crosslinked polyethylene
Wall thickness: 0.017" nom
Diameter: 0.118" nom
Color: See Table 1
Marking: RU AWM 3266 125C 300V VW-1 JUDD
WIRE CSA AWM I A/B 125C 300V FT1 X-LINK
14 AWG ROHS

3. PHYSICAL CHARACTERISTICS

Temperature rating: 125 °C
Voltage rating: 300 V
Weight: 16.2 lbs per 1000', nom

4. PERFORMANCE PROPERTIES

Mechanical

Tensile – UL 1581
Unaged 2000 psi, min
Aged (168 hrs @ 158°C) 80% retention, min
Elongation–UL 1581 & CSA C22.2 No. 210.2
Unaged 300%, min
Aged (168 hrs @ 158°C) 80% retention, min
Adhesion (3" slug @ 2" per min) 8 lbs, min

Deformation – UL 758
1 hr @ 121°C, 250g 50% thickness decrease, max

Crush Resistance – UL 758 600 lb, min

Thermal

Cold Bend – CSA C22.2 No. 210.2
4 hrs @ -15°C No Cracks,
Pass Dielectric Strength

Heat Shock – UL 758 & CSA C22.2 No. 210.2
1 hr @ 158°C No Cracks,
Pass Dielectric Strength

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

PERFORMANCE PROPERTIES

Electrical

Spark test- UL 758 3000 V_{ac}

Dielectric Withstand Method I – UL 758

Unaged 60 sec, 60 Hz, 2000 V_{ac}
Aged (168 hrs @ 158°C)

Greater than 50% of average unaged breakdown voltage

Dielectric Withstand Method II – UL 758

Unaged 60 sec, 60 Hz, 2000 V_{ac}
Aged (168 hrs @ 158°C)

60 sec, 60 Hz, 2000 V_{ac}

Dielectric Withstand Method III – UL 758

Conditioned 24 hrs in water
60 sec, 60 Hz, 2000 V_{ac}

Dielectric Strength – CSA C22.2 No. 210.2-M90

Post Cold Bend (Conditioned 1 hr in water)
1000 V_{ac}

Post Heat Shock (Conditioned 1 hr in water)
1000 V_{ac}

Environmental

Directive 2002/95/EC(RoHS) Complies

5. REFERENCE SPECIFICATIONS

UL Standard 758, AWM style 3266

UL Standard 758

UL Standard 1581

CSA C22.2 No. 210.2 AWM I A/B

The European Parliament and the Council of the European Union Directive 2002/95/EC

Table 1

Black	Brown	Red	Orange
Yellow	Green	Blue	Violet
Gray	White	Tan	Pink

Special colors and stripes available upon request



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Turners Falls, MA 01376
(413) 863-4357

Date	Rev	By	Appr'd	ECN
10/08/14	---	GT	MCC	---
Customer Approval:				

Description: 14 AWG, XLPE, 300V, 125C, UL 3266/CSA AWM	
Specification Number: JW1583-14	Page: 1 of 1