

1. CONDUCTOR

Material: Tin plated copper per ASTM B3, B33
 Construction: See Table 1
 Diameter: See Table 1

2. INSULATION

Material: Radiation crosslinked polyethylene
 Wall thickness: 0.017" nom
 Diameter: See Table 1
 Color: See Table 2
 Marking: Per applicable regulatory requirements

3. PHYSICAL CHARACTERISTICS

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

4. PERFORMANCE PROPERTIES**Tensile Strength**

Unaged: 1500 psi min
 Aged (7 days @ 158 °C): 70% of unaged

Elongation

Unaged: 150% min
 Aged (7 days @ 158 °C): 50% of unaged

Cold bend

Conditioned for 4 hours @ -10 °C:
 No visible cracking

Heat shock

Conditioned for 1 hour @ 158 °C:
 No visible cracking

Deformation

Conditioned for 1 hour @ 158 °C:
 50% max thickness decrease

PERFORMANCE PROPERTIES**(cont'd)****Dielectric Test – UL (Method I)**

Unaged (60 seconds @ 23 °C): 2000 V_{ac}

Aged (60 seconds @ 23 °C):

Greater than 50% of average
 unaged breakdown voltage

Dielectric Test – UL (Method II)

Unaged & Aged (60 seconds @ 23 °C):

2000 V_{ac}

Dielectric Test – UL (Method III)

Conditioned for 24 hours in water (60 seconds

@ 23 °C): 2000 V_{ac}

Dielectric Test – CSA (Cold bend)

Conditioned for 4 hours @ -10 °C, then 1 hour
 in water: No breakdown for 60 seconds

Dielectric Test – CSA (Heat shock)

Conditioned for 4 hours @ -10 °C, then 1 hour
 in water: No breakdown for 60 seconds

Flame

Vertical Flame Test: VW-1 & FT-1

Spark Test

100% of production: 3000 V_{ac}

5. REFERENCE SPECIFICATIONS

UL Standard 758, AWM style 3266

CSA C22.2 No. 210.2-M90 AWM I A/B

Table 1

Conductor			Insulation	
Size	Stranding	Diameter, nom.	Diameter, nom.	Weight (lbs/kft), nom.
22	7/30	0.030"	0.064"	3.67
20	19/32	0.038"	0.072"	5.55
18	19/30	0.048"	0.082"	8.05

Table 2

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

Special colors and stripes available upon request



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Date	Rev	By	Appr'd	ECN
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Customer Approval:

Description:

**HOOKUP WIRE, XLPE
 INSULATED, UL 3266/CSA AWM**

Specification Number:

JW1018-04

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