

tyco
Electronics

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WIRE RATINGS AND ADDITIONAL REQUIREMENTS
TEMPERATURE RATING: 150°C
Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level
CONCENTRICITY: 70% (minimum)
CROSSLINKING PROOF TEST: $300 \pm 3^{\circ}$ C,
30 minutes for AWG 26 - 14, 1 hour for AWG 12 and larger
IDENTIFICATION AND COLOR STRIPING DURABILITY:
125 cycles (250 strokes) (minimum), 500 g weight
INSULATION ELONGATION AND TENSILE STRENGTH:
AWG 26, Elongation, 75% (minimum)
Tensile Strength, 3000 lbf/in ² (minimum)
AWG 24 -10, Elongation, 75% (minimum)
Tensile Strength, 3500 lbf/in ² (minimum)
AWG 8 - 0, Elongation, 125% (minimum)
Tensile Strength, 3000 lbf/in ² (minimum)
INSULATION FLAWS:
Primary Insulation,
Spark Test, 1.5 kV (rms) at 3 kHz
Impulse Dielectric Test, 6.0 kV (peak)
Finished Wire,
Spark Test, 3.0 kV (rms) at 3 kHz
Impulse Dielectric Test, 8.0 kV (peak)
INSULATION THICKNESS:
For AWG 26 - 18, .004 inch (minimum) for primary insulation
.004 inch (minimum) for outer jacket
For AWG 16 - 10, .005 inch (minimum) for primary insulation
.005 inch (minimum) for outer jacket
For AWG 8 - 4, .008 inch (minimum) for primary insulation
.012 inch (minimum) for outer jacket
For AWG 2 - 0, .010 inch (minimum) for primary insulation .015 inch (minimum) for outer jacket
JACKET COLOR: White preferred
PRODUCT IDENTIFICATION: AWG 26 - 10, black ink only
AWG 8 and larger, black ink preferred
SECANT MODULUS: (Test per ASTM D 882)
AWG 26 - 10: 5.0 x 10 ⁴ lbf/in ² (maximum)
AWG 8 and larger: 4.0 x 10 ⁴ lbf/in ² (maximum)
2% strain, 2 inch jaw separation, 0.2 inch/minute
SHRINKAGE: $150 \pm 3^{\circ}$ C for 6 hours,
AWG 26 -10, 0.13 inch (maximum) in 12 inches
AWG 8 - 0, 0.25 inch (maximum) in 12 inches
VOLTAGE WITHSTAND TEST (Post Environmental): 2500 volts (rms), 60 Hz
PART NUMBER:
The "*" in the part numbers on page 1 shall be replaced by color code designators.
1/ Example: AWG 16, white wire: 82A0812-16-9
AWG 16, white with blue stripe: 82A0812-16-96

 $\underline{1}$ / See footer section on page 1