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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 + ACCELERATED AGING: 300 ± 2°C for 6 hours Identification legibility, (AWG 24-4 only) 225 ± 2°C for 6 hours BLOCKING: 150 ± 2°C for 24 hours BRAID COLOR: Per MIL-STD-104, Class 2, except that light brown shall be within munsell color limits (see Table III); nominal, 2.5 YR 3/6 FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum);no flaming of facial tissue HUMIDITY RESISTANCE: Insulation Resistance, 5000 Megohms for 1000 ft. (minimum) IDENTIFICATION, STRIPING, OR BAND DURABILITY (AWG 24-4 only): 125 cycles (250 strokes) (minimum), 500 g weight IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown INSULATION ELONGATION AND TENSILE STRENGTH: Primary Insulation, Tensile Strength, 2500 lbf/in<sup>2</sup> (minimum), AWG 24-12 2000 lbf/in2 (minimum), AWG 10-0 Elongation, 150% (minimum) INSULATION FLAWS: Primary Insulation, SparkTest, 3.0 kV (rms) at 60 Hz 4.2 kV (rms) at 3 kHz Impulse DielectricTest, 6.0 kV (peak) Finished Wire: SparkTest, 5.7 kV (rms) at 3 kHz Impulse DielectricTest, 8.0 kV (peak) INSULATION RESISTANCE: 5000 Megohms for 1000 ft. (minimum) JACKET COLOR (AWG 2-0 only): White + LIFE CYCLE: 200 ± 2°C for 168 hours LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours + SHRINKAGE: 300 ± 2°C, 0.125 in. (maximum) in 12 in., AWG 24-12 300 ± 2°C, 0.250 in. (maximum) in 12 in., AWG 10-0 SMOKE: 200 ± 2°C. No visible smoke. SOLDERABILITY: Per MIL-STD-202, Method 208, except without steam aging, Type RMA Flux SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings THERMAL SHOCK: 150 ± 2°C, 0.060 in. (maximum), primary insulation and jacket only. VOLTAGE WITHSTAND (POST ENVIRONMENTAL): 2500 volts (rms), 60 Hz, 5 minutes WICKING: 2.25 in. (maximum) between primary insulation and jacket. PART NUMBER: The "\*" in the part numbers on page 1 shall be replaced by color code designators except that Lt. brown shall be designated as -1L For AWG 2-0, only the braid color shall be designated. 1/ Example: AWG 20, white: 44A0711-20-9 AWG 20, white with black stripe: 44A0711-20-90 AWG 2, white jacket, Lt. brown braid: 44A0711-2-1L 1/ See footer section on page 1 + NOTE: For AWG 2-0, these tests are conducted prior to application of the braid.

TABLE III. MUNSELL COLOR LIMITS	
HUE	5R - 5YR
VALUE	3.0 - 5.0
CHROMA	4.0 - 6.0

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TE Connectivity: 81044/6-0-9