

**Table 3.4.4 A: Wire and Cable Performance**

<b>Property</b>	<b>Unit of Measurement</b>	<b>Test Method</b>
<b><u>Electrical:</u></b>		
Volume resistivity	Ohm-cm	ASTM D257
Dielectric constant (at 1, 10 KHz, and 1, 10 Mhz)	Ratio	ASTM D149
Dissipation factor (at 1, 10 KHz, and 1 Mhz)	Ratio	None listed
<b><u>Thermal:</u></b>		
Maximum Operating/ Service Temperature	Degrees C, F	UL 1007, UL 1015, UL 1569
Minimum temperature (brittle)	Degrees C, F	D746
Thermal stability	Minutes at 180 degrees C	None listed
<b><u>Mechanical:</u></b>		
Tensile strength	MPa	ASTM D412
Specific gravity/density	SG is unitless	ASTM D792
Hardness	Shore durometer scale	ASTM D2240
Elongation at break	Percent elongation	ASTM D412
Fire resistance/ Flame rating	V-O, HB	UL 94
Smoke test (Arapaho)	None listed	ASTM D4100
Smoke index	None listed	NES-711
Flame Test	cm	IEC 332-3C
Mold shrink, linear flow	In/in	ASTM D955
Limiting Oxygen Index	Percentage oxygen	ASTM D2863
Relative Temp Index mechanical	Degrees C, F	UL 746
Relative Temp Index electrical	Degrees C, F	UL 746
Comparative tracking index	Performance Level Categories	UL 746
Sunlight Resistance	None listed	UL 720 hour Sunlight Resistance

**Table 3.4.4 A: Wire and Cable Performance**

<b>Property</b>	<b>Unit of Measurement</b>	<b>Test Method</b>
Hot wire ignition	Performance Level Categories	UL 746
High amp arc ignition	Performance Level Categories	UL 746
Halogen content	Percent halogen materials	None listed
Acid gas	mg	MIL-C-24643
Acidity of gases	pH	IEC-754-2
Conductivity	uS/cm	IEC-754-2
Toxicity index	None listed	NES-713