

**Table 3.4.4 N: Testing Requirements for Various Wire and Cable Applications (OTA)**

<b>Application Type</b>	<b>Testing and Approval</b>
Wet-rated wire insulation – <i>e.g.</i> , THWN	Standard for Thermoplastic Insulated Wires and Cables – UL 83. The water immersion test at rated temperature takes a minimum of 12 weeks and frequently is completed in 24 weeks.
Power Limited Tray Cable (PLTC)	Cable Tray Flame Test (UL 1685) required and physical testing on samples of the cable jacket, un-aged and after aging in an air oven (typically a seven-day test).
Riser-rated communications cable	Riser Cable Flame Test (UL 1666) and physical testing similar to PLTC cable.
Plenum jacket	NFPA 262 Smoke and Flame Test required. Because of the difficulty in predicting outcomes of this test based on small changes in construction, more testing than for PLTC and CMR constructions may be required.
Flexible Cable – <i>e.g.</i> STP cord	No testing required a priori. Manufacturer responsible for providing assurance that the product meets the UL standard. UL will confirm that the product meets the standard during follow-up testing.
Generically authorized compounds	Substitutions are the responsibility of the cable manufacturer and need not be pre-authorized. UL will confirm that the product meets the standard during follow-up testing.