

## Copper Testing

Certification Testing	TIA 568-C.2 CAT 5e, 6, 6A, draft CAT 8 ISO/IEC 11801, EN 50173 Class D,E,EA,F,FA Draft Class I and Class II Permanent link and channel CAT 5e, 6, 6A, 7, 7A and patch-cord
Autotest Time - CAT6A	9 sec
Autotest time - Class FA	15 sec
Max Cable Length for dual ended Autotest	500m
Insertion Cycles	Channel: 10,000 typical Permanent Link: 5,000 typical
Test Parameters	As specified in TIA 1152, IEC 61935-1; including Wiremap
Loop Resistance	0 to 40 $\Omega$ , $\pm 0.1 \Omega$
Length	0 to 500m, $\pm 0.5m$ (dual ended testing)
Propagation Delay and Delay Skew	0 to 5000 ns, $\pm 1$ ns
Attenuation	0 to 70 dB, $\pm 0.1dB$
Pair-to-Pair and Power-Sum NEXT	0 to 85 dB, $\pm 0.2$ dB
Pair-to-Pair and Power-Sum ACRF	0 to 85 dB, $\pm 0.2$ dB
Return Loss	0 to 40 dB, $\pm 0.2$ dB
ACRN, PSACRN	-25 to 85 dB, $\pm 0.5$ dB
Advanced Diagnostics	Time-domain fault Locator for RL and NEXT
Measurement Accuracy	Exceeds TIA 1152 Level IIIe, IEC 61935 level IV
Measurement Frequency Range	1-2, 500 MHz

**Fiber Testing - SM**

Wavelengths	1310nm, 1550nm
Autotest Time	6 seconds for dual ended test
Connector Type	SC, LC (optional adapter needed)
Test Standard	TIA 568 C.3, IEC 14763-3

**Test Parameters**

Loss	0 to 31 dB, $\pm 0.2$ dB
Length	0 to 20,000m, $\pm 1.5$ m
Output Power	-5 dBm to -9dBm
Receiver Sensitivity	-40dBm

**Fiber Testing - MM**

Wavelengths	850nm, 1300nm
Autotest Time	6 seconds for dual ended test
Connector Type	SC
Test Standard	TIA 568 C.3, IEC 14763-3

**Test Parameters**

Loss	0 to 24 dB, $\pm 0.2$ dB
Length	0 to 2,000m, $\pm 1.5$ m
Encircled Flux Compliance	Through external Mode Conditioner
Dynamic Range	24 dB
Output Power	-4dBm to -10dBm
Receiver Sensitivity	-34 dBm