

ID#	Test	Criteria	Standards & Specs	Procedures	Result
1.0 Environmental Requirements					
	Non-operating Temperature Range	-40° C to + 70° C			Pass
	Operating Temperature Range	-10° C to + 60° C	TIA-568-C.2, sect.5.7.1		Pass
	Communications cables - safety	compliant to UL444 and NEC articles 800	UL444 - communications cable NEC - National electrical code		
	RoHS	RoSH compliance	Directive 2002/95/EC		Pass
2.0 Electrical Requirements - Cable					
	DC resistance	14Ω max.	TIA-568-C.2, sect.6.6.1	as per ASTM 4566	Pass
	Resistance unbalance	4% max for Cat 6A cable cord 5% max for Cat 5E / Cat 6 cable cord	TIA-568-C.2, sect.6.4.2	as per ASTM 4566	Pass
	Mutual capacitance	< 5.6 nF @1kHz , 20° C	TIA-568-C.2, sect.6.4.3	as per ASTM 4566	Pass
	Capacitance unbalance	<330 pF @1kHz , 20° C	TIA-568-C.2, sect.6.4.4	as per ASTM 4566	Pass
	Dielectric strength (screened cable only)	Withstand 2.5 kV DC for 2sec (between conductors) Withstand 5 kV DC for 2sec (between cre shield and conductor)	TIA-568-C.2, sect. 5.3.10 TIA-568-C.2, sect.5.6.8	as per IEC 60189-1 as per ASTM 4566	Pass
	Surface transfer impedance (for screened cable only)	< Z f Tcable =10 mΩ/m	TIA-568-C.2, sect. 6.4.20	as per IEC 62153-4-3	Pass
3.0 Electrical Requirements - Plug					
	Current rating	1.5 A	IEC 60603-7	IEC 60603-7, section 6.4.3	Pass
	Voltage rating	30 V AC			Pass
	UL94	UL94 V-0	UL1863	UL94 section 8	Pass
	Insulation resistance (mating)	Insulation Resistance: - 500 MΩ Min.	IEC 60603-7 series, clause 6.4.7	IEC 60512-2, test 3A	Pass
	Voltage Proof (Mating)	compliance	IEC 60603-7 series Section 6.4.2	IEC 60512, Test 4a, Method A	Pass
	Contact Resistance	20 mOhm maximum (2a)	IEC 60603-7	IEC 60512, 2a	Pass
4.0 Physical Requirements					
	Conductor Material - Cable	Fully annealed solid bare copper or stranded (tinned or bare) copper			Pass
	Contact blade - Plug	Phosphor bronze with 50 μ inch of Gold over Nickel Plating			Pass
	Plug dimensions	FCC Part 68, Subpart F, IEC 60603-7 compliance	IEC 60603-7	IEC 60603-7	Pass
	Crimp Height	±0.005" from nominal 0.237"	IEC 60603-7	IEC 60603-7 section 3.2.2 (Parameter K2)	Pass
5.0 Mechanical Requirements					
	Mechanical conformance for cord cable	Cord Cable Cat 6/6A : ANSI/ ICEA S-102-732-2009 Cord Cable Cat 5E : ANSI/ ICEA S-90-661-2006	TIA-568-C.2, sect 5.3		Pass
	Pull Test	2lbf each wire	UL1863	UL1863 section 40	Pass
	Flex Test	90 degree	UL1863	UL1863 section 39	Pass
	Strain Relief	Withstand 1min without discontinuity of the signal (45 degree with 11.25 lbf)	UL1863	UL1863 section 26	Pass
	Mechanical operations	750 operations	TIA-568-C.2 , sect. A.3	IEC 60603-7	Pass

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6.0	Reliability Requirements - Plug				
	Mating Reliability test schedule	TIA-568-C.2 Annex A. Reference to Clause A.5.3	TIA-568-C.2 Annex A. IEC 60603-7 series	Reliability test schedule	Pass
7.0	Transmission Requirements				
	Patch cord performance	NEXT : TIA-568-C.2, clause 6.9.2 Return loss : TIA-568-C.2, clause 6.9.1	TIA-568-C.2 , sect. 9	NEXT: TIA-568-C.2, clause C.5 Return Loss : TIA-568-C.2, clause C.5.3 see Belden TP-11001	Pass
	Plug Performance	Plug- DNEXT as per Table C.2 and Table C.3 of TIA-568-C.2	TIA-568-C.2 , sect. C.4.4.3	TP-10027 (Plug-Dnext qualification)	Pass
	Cord Cable transmission performance	compliant to TIA-568-C.2 refer to tab 'Cord Cable performance'	TIA-568-C.2	as per TIA-568-C.2	Pass