



4Pairs Cat5e FTP Cable Specification

AX2X0.50		DATE Oct 10 2014		
Cross Section		Performance		
		Electrical Characteristics:		
Marking		Frequency (MHz)	Return loss (Min dB)	
Description		Attenuatio (dB/100m)	NEXT (Min dB)	
Rated Temperature (°C)	75	0.772	19.4	
Product Standard Certification		1	20.0	
Application Horizontal Wiring in LAN Reference Standard UL Subject 444,EIA/TIA568 & ISO/IEC 11801		4	23.0	
		8	24.5	
		10	25.0	
		16	25.0	
		20	25.0	
		25	24.3	
		31.25	23.6	
		62.5	21.5	
		100	20.1	
		Construction		Frequency (MHz)
Conductor	CCA	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	
AWG	24	Delay (ns/100m)		
Conductor Dia. (mm)	0.5	0.772	64.0	
Insulation	PE	1	62.3	
Average Thickness(mm)	0.228	4	53.3	
Min. Point Thickness(mm)	0.205	8	48.8	
Insulation Dia.(±0.01mm)	0.97	10	47.3	
Twisted Pair Dia.(±0.02mm)	1.94	16	44.3	
		20	42.8	
PE-Tape(mm)	Yes	25	41.3	
Drain wire Dia.(±0.003mm)	0.4CCA	31.25	39.9	
Al Foil Shield(mm)	Yes	62.5	35.4	
PE-Tape(mm)	Yes	100	32.3	
Assembly Dia.(±0.2mm)	4.95	Mechanical Characteristics:		
Jacket	LSOH/PVC	1.0-100.0MHz Impedance (ohms)	100 ± 15	
Average Thickness(mm)	0.60	1.0-100.0MHz Delay Skew (ns/100m)	≤45	
Min. Point Thickness(mm)	0.54	Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330	
Outer Dia.(±0.2mm)	6.15	Max. Conductor DC Resistance 20°C (ohms/km)	93.8	
Rip Cord	Per request	Resistance Unbalance (%)	≤5	
Color		Test Object		
Insulation colors are: Blue,White/Blue Orange,White/Orange Green,White/Green Brown,White/Brown Jacket colors: Per request		Test Material		
		Before Aging		Jacket
		After Aging		PVC
		Tensile Strength (Mpa)		>=13.8
		Elongation (%)		>=100
		Aging Condition (°Cxhrs)		100x168
		Tensile Strength (Mpa)		>=85% of unaged
		Elongation (%)		>=50% of unaged
		Cold Bend(-20±2°Cx4hrs)		No crack
		Marking		Per request