CERTECH

305M Cat5E STP SOLID Shielded Cable Roll 100MHz, 24AWGx4P, White PVC Jacket

PRODUCT SPECIFICATION

STANDARD COMPLIANCES:

All Category 5e Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards:
ANSI/TIA-568-C.2 Cat.5e
ISO/IEC 2nd Edition 11801 CLASS D
CENELEC EN 50173-1
Flame Retardancy is According to ISO/IEC11801
TIA-568-C.2, CENELEC EN 50288-2-1 for Horizontal Cable
We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

CONSTRUCTION & CHARACTERISTICS:

MODEL CODE	NCC5ESTPSLD			
Conductor	Material	SOLID-Bare Copper		
	Nom. O.D. (mm)	0.50	Up	+0.005
			Down	-0.005
Insulation	Material	HDPE		
	Diameter	0.95±0.03 mm		
Screening Material	Aluminum Foil			
Core Colour	1. White- Blue/Blue	2. White-Orange/Orange		
	3. White- Green/Green	4. White- Brown/Brown		
Packing	Wooden Tray & Carton			
Carton dimension	41×41×21cm			
Packing length	305±1.5m			
Rip-cord	Yes	Drain Wire		Yes
Sheath	Thickness	0.55±0.05mm		
	External O.D.	5.8±0.4mm		
	Surface	Clean, Frap, Satiation		
	Material	PVC(complies RoHS)		
	Colour	According to the requires		
Sheath Physical Properties	Before Aging	Tensile Strength(Mpa) ⩾13.5/ Elongation(%) ⩾150		
	Aging Period (°C x hrs)	100°C x 24h x 7d		
	After Aging	Tensile Strength(Mpa) ⩾12.5/ Elongation(%) ⩾125		
	Cold Blend (-20± 2°C x 4h)	8 × Cable O.D, No visible cracks		
Electrical Characteristics (20°)	1.0-100.0MHz Characteristic Impedance (Ω)	100±15		
	1.0-100.0MHz Delay Shew (ns/100m)	≤45		
	Unbalanced-to-ground capacitance (pf/100m) max	330		
	DC Resistance (Ω/100m)	9.5		
	DC Conductor Resistance Unbalance (%) max	5.0		

ELECTRICAL PERFORMANCE:

Freq (MHz)	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	62.3	63.8	60.8
4	53.3	51.8	48.8
8	48.8	45.7	42.7
10	47.3	43.8	40.8
16	44.4	39.7	36.7
20	42.8	35.8	34.8
25	41.3	35.8	32.8
31.25	39.9	33.9	30.9
62.5	35.4	27.9	24.9
100	32.3	23.8	20.8

Freq (MHz)	RL ≥ dB	ATT ≤ dB	NEXT ≥ dB	DELAY ≤ ns
1	20.0	2.0	65.3	570.0
4	23.0	4.1	56.3	552.0
8	24.5	5.8	51.8	546.73
10	25.0	6.5	50.3	545.38
16	25.0	8.2	47.2	543.0
20	25.0	9.3	45.8	542.05
25	24.3	10.4	44.3	541.2
31.25	23.6	11.7	42.9	540.44
62.5	21.5	17.0	38.4	538.55
100	20.1	22.0	35.3	537.6