Datasheet

Patch Cable Cat.7 SSTP (PIMF) 600MHz

Configuration & Physical Characters					
1. Conductor	Material	Bare Copper			
	Size	26 AWG			
	Construction	7/0.16 ± 0.005 mm			
2. Insulation	Material	Foam-Skin PE			
	Thickness	MIN at any point: 0.2 mm MAX AVG: 0.35 mm			
	Diameter	1.07 ± 0.03 mm			
	Colors	Blue/White Orange/White Green/White Brown/White			
	Elongation	MIN 150%			
	Tensile strength	MIN 0.51 Kg/mm^2			
3. Inner-Shield	Aluminum-Mylar	An aluminum foil screen around each pair with insulation on inside surfa (Aluminum-Mylar: 40Ux12MM)			
4. Braid	Material	Tinned Copper			
	Construction	16 Carriers / 5 Strands / 0.10 mm, 5 PPpicks / in			
	Coverage	MIN 40% (Nom. 48%)			
5. Sheath	Material	☐ PVC		☒ Non-PVC	
	Thickness	MIN at any point: 0.40 mm MIN AVG: 0.50 mm		MIN at any point: 0.40 mm MIN AVG: 0.45 mm	
	Diameter	6.2 ± 0.3 mm		6.1 ± 0.3 mm	
	Color	Assorted upon request		Assorted upon request	
	Elongation	MIN 100%		MIN 125%	
	Tensile strength	MIN 1.407 Kg/mm^2		MIN 0.917 Kg/mm^2	
	Aging at 100˚C for 168 Hr	Min elongation retention: 50% Min tensile strength retention: 75%		Min elongation retention: 75% Min tensile strength retention: 70%	
	Remark	LSOH: IEEC 60332-3 Cat. C Low smoke: IEC 61189-2C12 Halogen free: IPC 4101-A			
	Element	F	N.D		Total < 1500 ppm
		Cl	675.9 ppm	< 1200 ppm	
		Br	2.0 ppm	< 900 ppm	
		I	N.D		
6. Marking		According to Production Specifications			
7. Flame Test		Burning five times, every time is less than 60 second and paper flag can`t be burned			

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Electric Characters				
1. Spark Test		750 V (AC)		
2. Dielecric Strength		2500 V dc / 3 seconds		
3. Insulation Resistance Test		MIN 150 M Ω / Km		
4. Conductor Resistance		MAX 14.07 Ω / 100 m at 20°C		
5. Resistance Unbalance		MAX 5%		
6. Capacitance Unbalance		MAX 330 pF / 100 m		
7. Mutual Capacitance		MAX 5600 pF / 100 m		
8. Impedance	64 kHz	125 Ω ± 20%		
	1 - 300 MHz	100 Ω ± 15%		
	300 - 600 MHz	100 Ω ± 25%		
9. Attenuation & Near end cross-talk		Attenuation (db / 100 meters at 20°C) max	Next (db), min	Power Sum (db), min
	1 MHz	/	80*	78*
	4 MHz	3.6*	80*	78*
	10 MHz	5.4*	80*	78*
	16 MHz	10.6*	80*	78*
	20 MHz	11.8*	80*	78*
	31.25 MHz	15.0*	79.6*	77.6*
	62.5 MHz	21.5*	75.1*	73.1*
	100 MHz	27.3*	72.0*	70.0*
	155 MHz	34.5*	69.1*	67.1*
	200 MHz	39.6*	67.5*	65.5*
	300 MHz	49.4*	64.8*	62.8*
	600 MHz	72.5*	60.3*	58.3*

The asterisked (*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula:
NEXT (f MHZ) $\geq$ NEXT (0.772) - 15LOG$_{10}$ (f MHZ / 0.772)