
Specifications

CAT3

FOR

Network Cable

UTP CAT3 24AWG 25 P

1. Product Materials and Structure

Item		Description	Remark
Conductor	Material	Single bare copper	
	Wire specification	2 4 AWG/OD0.47	
Insulation	Material	HDPE/OD0 .83	
	Cable pair color	# 1~5 P a i r white/blue, orange, green, brown, gray	
		# 6~ 10 P a i r red/blue, orange, green, brown, gray	
		# 11~ 15 P a i r black/blue, orange, green, brown, gray	
		# 16~20 P a i r yellow/blue, orange, green, brown, gray	
		#21~25 P a i r purple/blue, orange, green, brown, gray	
Ties		white, red, yellow, black, purple	
Shield		Polyester Tape (mylar)	
Crossing backbone Class F cable		NA	
Rip Cord		1000D	
Braid Layer	Material	NA	
	Specification	NA	
Outer Sheath	Material	LSZH	
	Color	TBD	
	Outer diameter	Φ11 .0±0.2mm	

[Structure Diagram]



2. Cable Printing

Cable Printing	Factory standards or customer requirements
Type	Spray printing

3. Package

Item	Description	Remark
Packaging Requirements	305 m /ROLL	
Wooden Spool Size	L450 * W450 * H300 mm	
Outside Packing Box	As per order requirement	
Pallet	As per order requirement	

4. Function

4.1 Electrical Properties

-	Item	Unit	Standard Parameters	Remark
Electrical Properties	Conductor resistance(DC) at 20 °C	Ω /100m	≤ 9.94	
	Resistance imbalance (DC) at 20 °C	%	≤ 4.0	2.5
	Working capacitance	nF/100m	≤ 5.6	5.2
	Capacitor imbalance 1 kHz	pF/100m	< 330	Unbalanced capacitance to ground
	Insulation resistance	M Ω /km	Between conductors: ≥ 5000	20000
	Dielectric strength 2 seconds DC	kV	Between conductors 1.0	No breakdown

4.2 Transmission Performance

Frequency (Mhz)	Attenuation (dB/100m)	NEXT (dB)	Power and PSNEXT (d/B)	ELFEXT (d/B)	PSELFEXT (d/B)	RL (d/B)
1	1.9	83.2	80.4	79.6	77.4	24.7
4	3.8	69.5	67.7	64	60.4	29.6
8	5.3	67.8	64	57.1	56.2	31.9
10	6	63.6	59.7	54.8	52.7	33
16	7.7	58.7	55.5	54.5	51.2	33.2