

PRODUCT	1/0.50x4P Cat.5e UTP LAN CABLE		
SPECIFICATION:			
Cross Section		Color	
The diagram illustrates the internal structure of the cable. It features four twisted pairs of conductors, each pair having a distinct color (blue, orange, green, and brown). These pairs are encased in a layer of polyethylene (PE) insulation. The entire assembly is protected by a thick PVC sheath. A central steel wire provides structural integrity, and a rid cord is also visible.		Insulation Cores: Pairs 1P:Blue & White/Blue 2P:Orange & White/Orange 3P:Green & White/Green 4P:Brown & White/Brown Jacket BLACK GRAY	
Marking			
Jacket marking RMX			
Description		Performance	
Rated Temperature (°C) 70		Electrical Characteristics(20°C)	
Application Telephone and other communication circuits such as voice, data, and audio for on-premise customer systems. .		Max. Conductor DC Resistance (Ω/km) #24:89	
		Min. Insulation Resistance (Ω/km) PE:100M	
		Dielectric Strength AC-500V/1	
		Min	
Construction		Impedance: 100±15Ω	

Conductor	Solid Stranded Bare Copper	DC Resistance max. Ω/1000ft:	28.6
4 Twisted Pairs	8C	DC Resistance Unbalance of a pair:	5% max
AWG	24	Propagation Delay Skew:	45ns/100m
Construction (mm)	1/0.50	FREQUENCY ATT NEXT PSNEXT ELFEXT	
Stranded Dia.(mm)	0.50	PSELFEXT RL	
Insulation	PE	(MHz) (db/100m) (db) (db) (db) (db) (db)	
Nom. Thickness (mm)	0.212	1 2.4 65.3 62.3 63.8 60.8 20	
Insulation Dia.(±0.05mm)	0.924	10 7.8 50.3 47.3 43.8 40.8 25	
Steel wire (MM)	1.2	16 9.9 47.3 44.4 39.7 36.7 25	
Jacket	PVC	20 11.1 45.8 42.8 37.7 34.7 25	
Rip cord	Nylon	25 12.5 44.4 41.3 35.8 32.8 24.2	
Nom. Thickness(mm)	0.55	31.25 14.1 42.9 39.9 33.9 30.9 23.3	
Outer Dia.(±0.2mm)	5.2+2.6	62.5 20.4 38.4 35.4 27.8 24.8 20.7	
		100 26.4 35.3 32.3 23.8 20.8 19.0	
		Mechanical Characteristics:	
		Test Object Jacket	
		Test Material PVC	