

CATEGORY 5e UTP NETWORK CABLES

CONSTRUCTION

CONDUCTOR	: Solid circular plain annealed copper wire, Class 1
INSULATION	: HDPE (high density polyethylene)
COLOUR OF CORES	: Pair 1 - Blue and White / Blue Pair 2 - Orange and White / Orange Pair 3 - Green and White / Green Pair 4 - Brown and White / Brown
RIP CORD	: Nylon rope
SHEATH (JACKET)	: PVC, White colour, Flame Retardant to VW-I test
STANDARDS	: TIA / EIA 568B.2, UL 444 / CSA C22.2 & ISO / IEC-11801



4 pairs x 24 AWG UTP Category 5e Cable

Cable Dimensions			Electrical Properties		
Cable size	: 4 Pr x 24 AWG (1/0.51mm)	dc conductor resistance at 20°C	: ≤ 93.8	Ω/km	
Nom. Insulation thickness	: 0.21 mm	dc conductor resistance unbalance	: ≤ 5	%	
Nom. sheath thickness	: 0.55 mm	Characteristic impedance	: 100±15	Ω	
Approx. overall diameter	: 5.3 mm	Mutual capacitance	: ≤ 5600	pF/100m	
Approx. net weight	: 10 kg/coil	Pair to ground capacitance unbalance	: ≤ 330	pF/100m	
Cable length per coil	: 305 m	Delay skew	: ≤ 45	ns/100m	

Transmission Characteristics								
Frequency	Attenuation (Insertion) Loss	NEXT	PS NEXT	ACR	PS ACR	ELFEXT	PS ELFEXT	Return Loss
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB
1	2.0	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4	4.1	56.3	53.3	52.2	49.2	51.8	48.7	23.0
8	5.8	51.8	48.8	46.0	43.0	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.2	44.2	39.0	36.0	39.7	36.7	25.0
20	9.3	45.8	42.8	36.5	33.5	37.8	34.7	25.0
25	10.4	44.3	41.3	33.9	30.9	35.8	32.8	24.3
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	27.9	24.8	21.5
100	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1