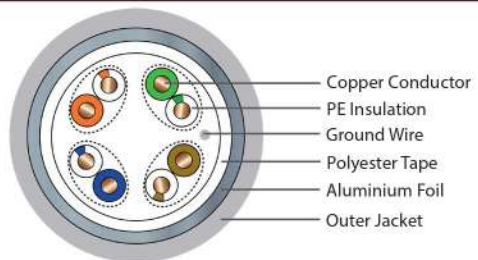


CAT 5e F/UTP 24 AWG Data Cable

CABLE DRAWING	CROSS SECTION
	

MECHANICAL and PHYSICAL PROPERTIES			
Basic Conductor	Bare annealed copper	Outer Jacket	LSZH or PVC compound
Conductor Size	24 AWG	Jacket Color	Gray. Other colors available upon request.
Insulation	Polyolefin	Surface Marking	As a customer request
Number of Insulated Conductors	8, twisted in 4 pairs	Pulling Force	50 N
Color Code of Pairs	Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown	Short Term Bend Radius	4xOD mm
Overall Tape Wrap	Polyester tape, providing 100% coverage.	Long Term Bend Radius	8xOD mm
Drain Wire	Solid, tin-coated annealed copper	Operating Temperature	-20 to +60C
Overall Shield	Laminated Aluminium foil providing 100% coverage.	Installation Temperature	0 to +50C

ELECTRICAL SPECIFICATIONS	
Characteristic Impedance	100±6 Ohm @ 1-100 MHz.
DC Resistance	93 Ohm/Km max.
Resistance unbalance	2% max.
Capacitance	47 pF/m nom. @ 1 KHz
Cap. Unbalance (wire to ground)	1500 pF/Km max. @ 1 KHz.
Voltage rating	72 Vdc max.
Dielectric strength	1000 Volts/1 minute min rms
Velocity of Propagation (NVP)	67-69%
Insulation Resistance	5000 MegaOhm·Km min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100)
Transfer Impedance	50 mOhm/m max. @ 1-30 MHz

Frequency (MHz)	Return Loss (dB)	Insertion Loss (dB)	NEXT Loss (dB)	PS NEXT Loss (dB)	ACRF (dB)
	Min.	Max.	Min.	Min.	Min.
1.00	19.0	2.1	60.0	57.0	58.6
4.00	19.0	3.9	54.8	51.8	46.6
8.00	19.0	5.5	50.0	47.0	40.6
10.00	19.0	6.2	48.5	45.5	38.6
16.00	19.0	7.9	45.2	42.2	34.5
20.00	19.0	8.9	43.7	40.7	32.6
25.00	18.0	10.0	42.1	39.1	30.7
31.25	17.1	11.2	40.5	37.5	28.7
62.50	14.1	16.2	35.7	32.7	22.7
100.00	12.0	21.0	32.3	29.3	18.6

ORDERING INFORMATION		
Packaging	Approx. OD(mm)	Approx. Weight(kg/km)
500m Drum	5.8±0.3	19
1000m Drum	5.8±0.3	38