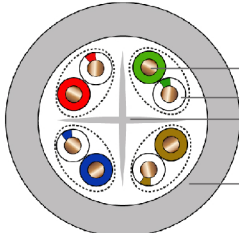


CAT 6 U/UTP Data Cable

CABLE DRAWING	CROSS SECTION
 FON GROUP CAT6 U/UTP LSZH	 A1 Copper Conductor A2 Copper Insulation A3 Separator A4 Outer Jacket

Mechanical and Physical Properties			
Basic Conductor	Bare annealed copper	Jacket Color	Gray (Ral 7040)
Insulation	Polyolefin	Standard Surface Marking	As a customer request
Number of insulated conductors	8, twisted in 4 pairs.	Pulling force	50 N/mm2 max.
Color Code of Pairs	Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown.	Short Term Bend Radius Long Term Bend Radius	8xOD mm 4xOD mm
Outer Jacket	LSZH	Operating Temperature Installation Temperature	-20 to +60C 0 to +50C

ELECTRICAL SPECIFICATIONS	
Characteristic Impedance	100±6 Ohm @ 1-250 MHz
DC Resistance	93 Ohm/Km max.
Resistance unbalance	2% max.
Capacitance	45 pF/m nom. @ 1 KHz
Cap. Unbalance (wire to ground)	1500 pF/Km max. @ 1 KHz.
Voltage rating	72 Vdc max.
Dielectric strength	1500 Volts/1 minute min rms
Velocity of Propagation (NVP)	67-69%
Propagation delay	514 + 36/f ^{1/2} nS/100m max @ 1-300 MHz
Propagation Delay Skew	45 nS/100m max @ 1-300 MHz
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc

FREQ. MHz	Insertion Loss (dB)	NEXT Loss (dB)	PS NEXT Loss (dB)	ACRF (dB)	PS ACRF (dB)	RL (dB)
	Max	Min	Min	Min	Min	Min
1.00	1.9	65.0	62.0	64.2	61.2	19.1
10.00	5.5	57.8	55.5	44.2	41.2	21.0
25.00	8.9	51.5	49.1	36.2	33.2	19.0
31.25	10.0	50.0	47.5	34.3	31.3	18.5
62.50	14.4	45.1	42.7	28.3	25.3	16.0
100.00	18.6	41.8	39.3	24.2	21.2	14.0
200.00	27.4	36.9	34.3	18.2	15.2	11.0
250.00	31.1	35.3	32.7	16.2	13.2	10.0

ORDERING INFORMATION		
Packaging	Approx. OD(mm)	Approx. Weight(kg/km)
305m Box , 500m Drum	6.0±0.3	39