

Category 6 UTP Outdoor Cable

Description

APPLICATION

Enhanced performance Category6 UTP cable for transmission of high-speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at frequency of 250MHz. This cable well exceeds the requirements of ANSI/TIA-568-D.2 and ISO/IEC 11801



Technical data

Construction

Description	Values
Conductor	23 AWG Solid bare Copper
Insulation	High Density Polyethylene
Pairs	2 Insulated conductors twisted together
Separator	Polyolefin
Cable Outer Sheath	LSZH (BLACK)
Cable Diameter	6.3 ± 0.3 mm

Mechanical data

Characteristics	Conditions
Bending Radius	< 4 X Cable Diameter(mm)
Pulling Force	11.5Kgs

Environmental data

Characteristics	Conditions	Values
Temperature range	During installation	-20° to + 60°C
	In service	-20° to + 60°C
Flammability Test	As per IEC-60332-1	

Category 6 UTP Outdoor Cable

Electrical properties

Characteristics	Conditions
Characteristic Impedance	100 +/- 15 Ω
Conductor Resistance	$\leq 9.38 \Omega / 100\text{m}$
Mutual Capacitance	$< 5.6\text{nF}/100\text{m}$
Resistance Unbalance	5% Max
Capacitance Unbalance	330pF/100m
Delay Skew	$< 45\text{ns}/100\text{m}$

Transmission Characteristics

HIGH FREQUENCY ELECTRICAL PARAMETERS						
FREQ (MHz)	ATT (dB/100m) max.	NEXT (dB) min.	PS.NEXT (dB) min.	ACRF (dB@100 m) min.	PS.ACRF (dB@ 100 m) min	Return Loss (dB/100m)
1	2.1	65.0	62.0	63.3	60.3	19
4	4.0	63.0	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54.0	43.3	40.3	19
16	8.0	53.2	50.6	39.2	36.2	18
20	9.0	51.6	49.0	37.2	34.2	17.5
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14.0
100	21.3	39.9	37.1	23.3	20.3	12.0
200	31.5	34.8	31.9	17.2	14.2	9.0
250	35.9	33.1	30.2	15.3	12.3	8.0

Ordering information

Description	Item number
Category 6 4Pair 23AWG UTP Outdoor Cable Reel 305-Mtr	DNC-C6USSJCBK-LS305