

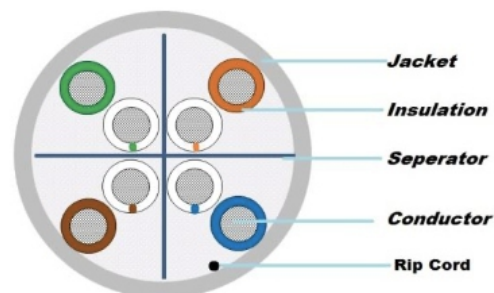
Category 6 UTP Cable - FRPVC

Description

APPLICATION

Enhanced performance Category 6 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 is ETL verified and well exceeds the requirements of ANSI/TIA-568.2-D and ISO/IEC 11801 std.



Technical data

Construction

Description	Values
Conductor	23 AWG Solid bare Copper
Insulation	High Density Polyethylene
Pairs	2 Insulated conductors twisted together
Separator	Polyolefin
Sheath	FR PVC
Cable Diameter	5.8 ± 0.30 mm
Colour Code	1-2 White-Orange Stripe and Orange 3-6 White-Green Stripe and Green 4-5 White-Blue Stripe and Blue 7-8 White-Brown Stripe and Brown
Available cable colour	Grey/Blue/Green/Red/White/Black/Orange/Purple

Mechanical data

Characteristics	Conditions
Bending Radius	< 4 X Cable Diameter (mm)
Pulling Force	100N

Environmental data

Characteristics	Conditions	Values
Temperature range	During installation	0° to + 50°C
	In service	-20° to + 60°C
Rating	CM Rated	
Flammability Test	As per IEC-60332 -1	

Certification

INTERTEK & ETL VERIFIED TO ANSI/TIA-568.2-D CATEGORY 6 std.

Category 6 UTP Cable - FRPVC

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
Cat6 4 Pair 23 AWG FRPVC UTP Cable Box-305Mtr	DNC-C6USCXX-FR305

Insert colour code of jacket in place of XX in part number when ordering:

RD=Red, GY=Grey, BL=Blue, GR=Green, YL=Yellow, WH=White, PP=Purple, OR=Orange, BK=Black