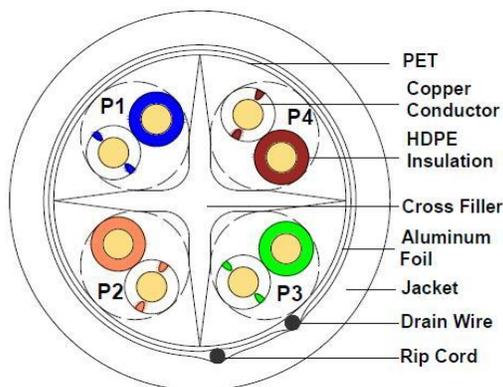


CAT.6 F/UTP CABLE - CC6FBLL3



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NEXCONEC[®] Category 6 F/UTP cables are specifically designed to deliver robust standards-based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 meters.

Each Category 6 F/UTP exceed the minimum specified performance for Category 6 F/UTP cables and support all CLASS E applications.

FEATURES

- ✓ Conform to IEC, EIA-TIA performance requirements
- ✓ 23AWG premium grade copper conductor
- ✓ F/UTP cable structure for better shielding in external interference environments
- ✓ Cable jacket available in LSZH, CM, PVC
- ✓ CPR Euro classes certified on demand 

APPLICATIONS

- ✓ Supports category 6 (Class E) networks running up to 250MHz applications
- ✓ Ideal for environments where external interferences can disrupt signals
- ✓ Horizontal and backbone in structured cabling installations

SPECIFICATIONS

Parameters	Value
Electrical Performance	Certified performance in a 4-connector configuration up to 100 meters
Conductor/Insulator	23 AWG solid copper insulated with HPDE
Operating Temperature	-20°C ~ +75°C
Compliance	ANSI/TIA-568-C.2, ISO 11801, IEC 60603-7
RoHS Compliance	Compliant

CABLE SPECIFICATION (CONSTRUCTION)

Parameters	Units	Value
Cable Jacket Type		LSZH/PVC/PE LSZH CPR B2ca (s1,d1,a1)
Cable OD	mm	7.2mm±0.2mm 7.5mm±0.2mm
Shielding		F/UTP, An aluminized polyester tape applied with a 15% minimum overlap at 4 twisted pairs, the drain wire is attached to the Al. foil
Insulation		HDPE
Pair Color Codes		Pair 1: White/Blue, and Blue Pair 2: White/Orange, and Orange Pair 3: White/Green, and Green Pair 4: White/Brown, and Brown
Sheath Color		Blue (RAL 5012) Grey (RAL 7046) Black (RAL 9005)
Conductor		23AWG solid copper

CABLE SPECIFICATION (MECHANICAL)

Parameters	Value
Bulk Cable Weight	50 Kg/km
Max. Pull Tension	100N
Min. Bend Radius (installation)	8x OD.
Min. Bend Radius (installed)	4x OD.
Cold Bend	No crack @-20°C x 4hrs
Storage Temp.	-20°C to +70°C
Operation Temp.	-20°C to +60°C
Installation Temp.	0°C to +50°C

CABLE SPECIFICATION (ELECTRICAL PROPERTIES AT 20°C)

Parameters	Units	Value
Characteristic Impedance	(1-100MHz)	100 ±15Ω
	(100-250MHz)	100 ±18Ω
DC Resistance	Ω/100m	≤ 9.35Ω/100m max.
Resistance Unbalance	%	≤ 5%
Capacitance Unbalance to Earth	Pf/km	≤ 330 pF/km
Delay Skew	ns/100m	≤ 44ns/100m
Nominal Velocity of Propagation	%	68%
Propagation Delay (Nominal)	ns/100m	533ns/100m at 250MHz
Test Voltage (d.c. for 1 minute) Conductor /Conductor	VDC	1000V
Insulation Resistance (500V d.c)	MΩ	≥ 500MΩ/KM
Max. Operating Voltage	V	80V

TRANSMISSION LINE PERFORMANCE AT 20°C

Freq. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20	2	74.5	570	72.3	68	65
4	23	3.7	65.3	552	63.3	56	53
10	25	5.9	59.3	545	57.3	48	45
20	25	8.3	54.8	541.2	52.8	42	39
62.5	21.5	15.9	47.4	538.5	45.4	32.1	29.1
100	20	19.5	44.3	537.6	42.3	28	25
250	17.3	33.5	38.2	536.1	36.5	19.8	17
300*	16.2	39.4	36.5	-	34.3	16.8	12.5
500*	15.3	48.1	33.7	-	31.7	13.4	10.4
550*	14.5	51.92	33.5	-	31.3	12.9	9.9

* Performance for frequencies beyond TIA and ISO requirements are for information only.

ORDER INFORMATION

CC	1	2	3	4	5
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CC	1	CABLE CATEGORY	2	CABLE STRUCTURE	3	JACKET COLOR	4	JACKET MATERIAL	5	PACKING
	6	CAT 6	F	F/UTP	BL	BLUE	L	LSZH	3	305MTR/ CARTON
					GY	GREY	LB	LSZH CPR B2CA	5	500MTR/ REEL
					WH	WHITE	C	PVC CMSS		
					BK	BLACK	P	PVC		
					GR	GREEN	E	PE		
					PR	PURPLE				
					RD	RED				