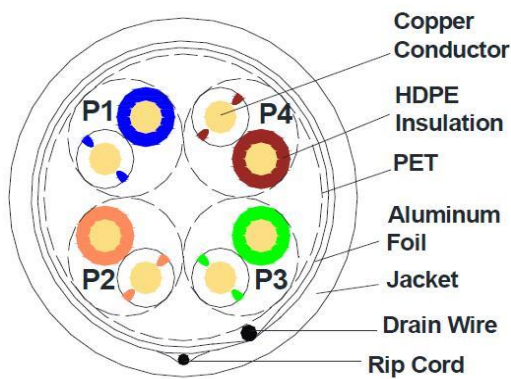


## CAT.5E F/UTP CABLE - CC5EFBLL3



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NEXCONEC<sup>®</sup> Category 5E 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 5E F/UTP exceed the minimum specified performance for Category 5E F/UTP cables and support all CLASS D applications.

### FEATURES

- ✓ Conform to IEC, EIA-TIA performance requirements
- ✓ 24AWG premium grade copper conductor
- ✓ F/UTP cable structure for better shielding in external interference environments
- ✓ Cable jacket available in LSZH, CM, PVC

### APPLICATIONS

- ✓ Supports category 5E (Class D) networks running up to 100MHz 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	24 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 OD	mm	6.1mm±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		24AWG solid copper

**CABLE SPECIFICATION (MECHANICAL)**

Parameters	Value
<b>Bulk Cable Weight</b>	35 Kg/km
<b>Max. Pull Tension</b>	100N
<b>Min. Bend Radius (installation)</b>	8x OD.
<b>Min. Bend Radius (installed)</b>	4x OD.
<b>Cold Bend</b>	No crack @ -20°C x 4hrs
<b>Storage Temp.</b>	-20°C to +70°C
<b>Operation Temp.</b>	-20°C to +60°C
<b>Installation Temp.</b>	0°C to +50°C

**CABLE SPECIFICATION (ELECTRICAL PROPERTIES AT 20°C)**

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

## 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	2.3	65.5	570	62.3	63.8	60.8
4	23	4.7	56.3	552	53.3	51.8	48.8
10	25	7.9	50.3	545	47.3	43.8	40.8
20	25	11.3	45.8	541.2	42.8	37.8	34.8
62.5	21.5	20.44	38.4	538.5	35.4	27.9	24.9
100	20	26.5	35.3	537.6	32.3	23.8	20.8
200*	18.3	28.5	30.8		27.5	18.3	15
300*	16.7	41.7	27.7		24.7	14.4	11.4
350*	16.5	44.9	27.1		24.3	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
	5E	CAT 5E	F	F/UTP	BL	BLUE	L	LSZH	3	305MTR/ CARTON
					GY	GREY	C	PVC CM		
					WH	WHITE	P	PVC		
					BK	BLACK	E	PE		
					GR	GREEN				
					PR	PURPLE				
					RD	RED				