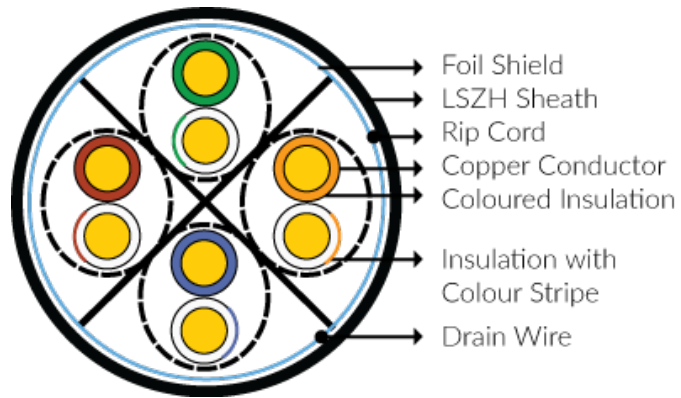
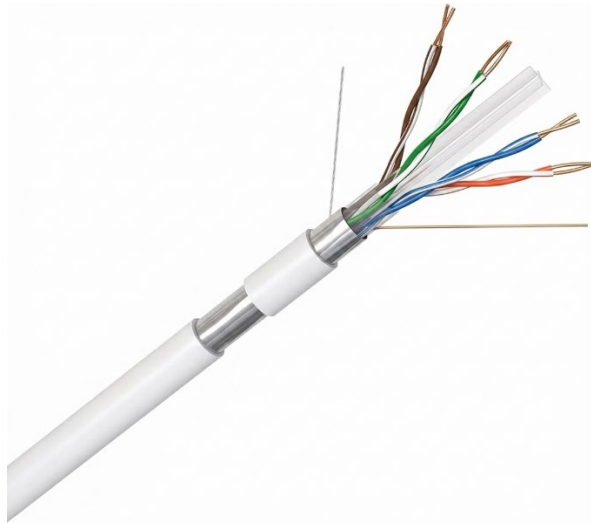


**CAT6 F/UTP CABLE - DC6FTP-305-LS**

D-Lite DC6FTP-305-LS consists of 4 twisted pair cables with solid 23AWG CCA 25% Cu conductors and a “+” shaped separator. This way, crosstalk and system noise is reduced to a minimum, resulting in higher bandwidth and improved immunity against noise and interference caused by external devices. Providing an optimized solution for 10Base-T, 100Base-TX and 1000Base-T gigabit networks.

**FEATURES**

- ✓ Conform to IEC, EIA-TIA performance requirements
- ✓ 23AWG premium quality CCA (25% Cu) Cable
- ✓ F/UTP cable structure with cross separator inside for better cable performance
- ✓ Cable jacket available in LSZH
- ✓ Support upto 250Mhz and 1G bps network speed

**APPLICATIONS**

- ✓ Supports category 6 (Class E) networks running up to 250MHz applications
- ✓ Horizontal and backbone in structured cabling installations

### SPECIFICATIONS

Parameters	Value
Electrical Performance	Fluke test pass up to 90-100 meters
Conductor/Insulator	23AWG Solid CCA 25% Copper insulated with HPDE
Operating Temperature	-20°C / +75°C
Compliance	ANSI/TIA-568-C.2, ISO 11801
RoHS Compliance	Compliant

### CABLE SPECIFICATION (CONSTRUCTION)

Parameters	Units	Value
Cable OD	mm	6.8mm±0.3mm
Shielding		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		White
Conductor		23AWG Solid CCA 25% Copper

### CABLE SPECIFICATION (MECHANICAL)

Parameters	Value
Max. Pull Tension	50N
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

Pass Fluke 95-100M Channel test

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

Parameters	Units	Value
Characteristic Impedance	(1-100MHz)	100 ±15Ω
	(100-250MHz)	100 ±18Ω
DC Resistance	Ω/100m	≤ 12Ω/100m max.
Resistance Unbalance	%	≤ 2.5%
Capacitance Unbalance to Earth	Pf/km	≤ 330 pF/km
Delay Skew	ns/100m	≤ 45ns/100m
Nominal Velocity of Propagation	%	70%
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

### TRANSMISSION LINE PERFORMANCE

Freq. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	19	3.00	65.0	570	62.0	64.2	61.2
4	21.0	4.90	64.1	552	61.8	52.1	49.1
8	21.0	6.35	58.2	546.7	55.5	44.2	41.2
16	20.0	8.40	54.6	543.0	52.2	40.1	37.1
20	19.5	9.3	53.1	542.0	50.7	38.2	35.2
62.5	16.0	16.50	45.1	538.6	42.7	28.3	25.3
100	14.0	21.30	41.8	537.6	39.3	24.2	21.2
200	11.0	31.50	36.9	536.5	34.3	18.2	15.2
250	10.0	35.90	35.3	536.3	32.7	16.2	13.2

### ORDER INFORMATION

Part Number	Product Description
DC6FTP-305-LS	D-Lite F/UTP Cat6 23 AWG LSZH CCA Communication Cable 305m Box-White Colour