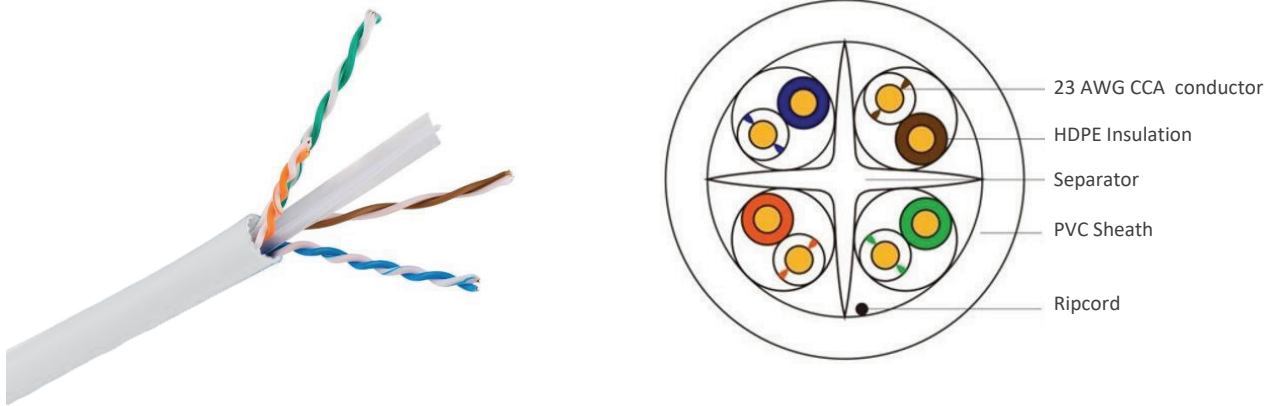


CAT6 U/UTP CABLE - DC6UTP-305

dLite DC6UTP-305 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
- ✓ U/UTP cable structure with cross separator inside for better cable performance
- ✓ Cable jacket available in PVC
- ✓ 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 95-100 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	6.10mm±0.1mm
Shielding		None
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		Grey
Conductor		23AWG Solid CCA 25% Copper

CABLE SPECIFICATION (MECHANICAL)

Parameters	Value
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

Pass Fluke 95-100M Channel test

CABLE SPECIFICATION (ELECTRICAL PROPERTIES AT 20°C)

Parameters	Units	Value
Characteristic Impedance	(1-100MHz) (100-250MHz)	100 ±15Ω 100 ±18Ω
DC Resistance	Ω/100m	≤ 9.38Ω/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	%	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

TRANSMISSION LINE PERFORMANCE

Freq. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.0	74.3	570	72.3	67.8	64.8
4	23.0	4.1	65.3	552	63.3	55.7	52.7
8	24.5	5.8	60.8	546.7	58.8	49.7	46.7
16	25.0	8.2	56.3	543.0	54.3	43.7	40.7
20	25.0	9.3	54.8	542.0	52.8	41.7	38.7
62.5	21.5	17.0	47.4	538.6	45.4	31.8	28.8
100	20.1	22.0	44.3	537.6	42.3	27.8	24.8
200	18.0	32.4	39.8	536.5	37.8	21.7	18.7
250	17.3	36.9	38.3	536.3	36.3	19.8	16.8

ORDER INFORMATION

Part Number	Product Description
DC6UTP-305	dLite U/UTP Cat6 23 AWG CCA Communication Cable 305m Box-Grey Colour