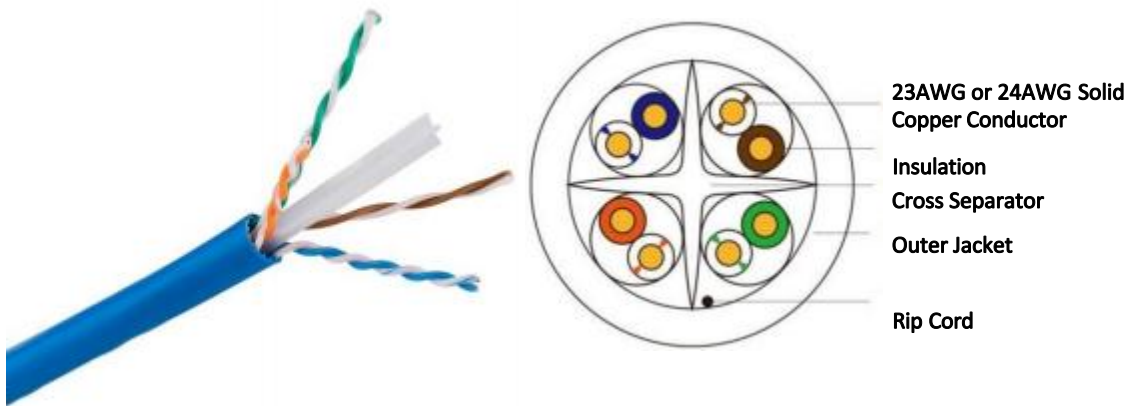


CAT.6 U/UTP CABLE - CC6UBSOAR



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

FEATURES

- ✓ Conform to IEC, EIA-TIA performance requirements
- ✓ 23AWG or 24AWG premium grade copper conductor
- ✓ U/UTP cable structure with cross separator inside for better cable performance
- ✓ Cable jacket available in LSZH, CM, PVC
- ✓ ETL certified Channel test
- ✓ CPR Euro classes certified on demand 

APPLICATIONS

- ✓ Supports category 6 (ClassE) networks running up to 250MHz applications
- ✓ 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	23AWG or 24AWG Solid Copper insulated with HPDE
Operating Temperature	-20° C ~ +75° C
Compliance	ANSI/TIA-568-C.2, ISO 11801, IEC 60603-7, ETL Verified
RoHS Compliance	Compliant

CABLE SPECIFICATION (CONSTRUCTION)

Parameters	Value		
Cable Jacket Type	LSZH/PVC/PE	LSZH CPR Dca (s2,d1,a1)	LSZH CPR Cca (s1a,do,a1)
Cable OD	5.7mm±0.2mm	6.0mm±0.2mm	6.3mm±0.2mm
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	Blue (RAL 5012) Grey (RAL 7046) Black (RAL 9005)		
Conductor	23AWG or 24AWG Solid Copper		

CABLE SPECIFICATION (MECHANICAL)

Parameters	Value
Bulk Cable Weight	43 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 ~ +70° C
Operation Temp.	-20° C ~ +60° C
Installation Temp.	0° C ~ +50° C

CABLE SPECIFICATION (ELECTRICAL)

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/100mat 250MHz
Test Voltage (d.c. for 1 minute) Conductor /Conductor	VDC	1000V
Insulation Resistance (500V d.c)	MΩ	≥ 500MΩ/KM

TRANSMISSION LINE PERFORMANCE AT 20°C

Freq. MHz	RL ≥d B	ATT ≤d B	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20	2.03	74.5	570	72.3	68	65
4	23	3.7	65.3	552	63.3	56	53
10	25	5.9	59.3	545.5	57.3	48	45
20	25	8.3	54.8	541.8	52.8	42	39
62.5	21.5	15.5	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	32.5	38.2	536.1	36.5	20	17
300*	16.2	39.7	36.1	-	34.2	15.5	13.9
550*	15.3	48.9	33.7	-	31.8	13.8	10.8

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

ORDER INFORMATION

CC	1	2	3	4	5	6
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CC	1	CABLE CATEGORY	2	CABLE STRUCTURE	3	JACKET COLOR	4	JACKET MATERIAL	5	PACKING	6	CONDUCTOR GRADE
	6	CAT 6	U	U/UTP	BL	BLUE	L	LSZH	3	30.5MTR/CARTON	P	Premium (23AWG)
					GY	GREY	LD	LSZH CPR Dca			-	Standard (24AWG)
					WH	WHITE	LC	LSZH CPR Cca				
					BK	BLACK	C	PVC CM				
					GR	GREEN	P	PVC				
					PR	PURPLE	E	PE				
					RD	RED						