

Cat6a U/UTP Cable

PRODUCT APPLICATION

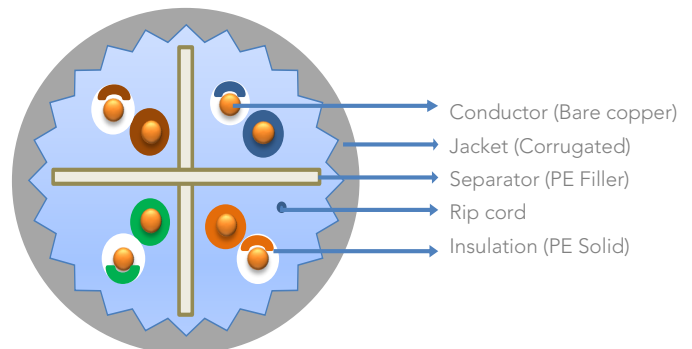
D-Link offers Cat6a 4 Pair U/UTP Cables in different conductor Sizes, for every need of Ethernet. Our Cat 6a Cables support up to 10 Gbps Data rates and are ideal choice for LAN/WAN Solutions. It consist of 8 Copper Conductors, 2 conductors twisted together to form a pair. 4 Pairs are laid up together.



CONSTRUCTION

Conductor	: 24 AWG Solid bare Copper
Insulation	: High Density Polyethylene
Pairs	: 2 Insulated conductors twisted together
Separator	: Polyolefin
Sheath	: FR PVC - Corrugated Jacket

Cable Diameter: 6.4 ± 0.3 mm



ELECTRICAL CHARACTERISTICS

Characteristic Impedance	: 100 + 15 Ω
Mutual Capacitance	: <5.6nF/100m
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: 330pF/100m
Delay Skew	: < 45nS
Conductor Resistance	: <9.8Ω/100m

COLOUR CODE

<u>PAIR NO</u>	<u>COLOUR</u>
1-2	White-Orange Stripe & Orange
3-6	White-Green Stripe & Green
4-5	White-Blue Stripe & Blue
7-8	White-Brown Stripe & Brown

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TRANSMISSION CHARACTERISTICS

Frequency (Mhz)	IL (dB/100 m) Max	NEXT(dB) Min.	PSNEXT (dB) Min.	ACRF (dB/100 m) Min.	PSACRF (dB/100 m) Min.	RL (dB) Min
1	2.3	65.0	62.0	63.3	60.3	19.0
4	4.2	63.0	60.5	51.2	48.2	19.0
8	5.8	58.2	55.6	45.2	42.2	19.0
10	6.5	56.6	54.0	43.3	40.3	19.0
16	8.2	53.2	50.6	39.2	36.2	18.0
20	9.2	51.6	49.0	37.2	34.2	17.5
25	10.2	50.0	47.3	35.3	32.3	17.0
31.25	11.5	48.4	45.7	33.4	30.4	16.5
62.5	16.4	43.4	40.6	27.3	24.3	14.0
100	20.9	39.9	37.1	23.3	20.3	12.0
200	30.1	34.8	31.9	17.2	14.2	9.0
300	37.4	31.7	28.8	13.7	10.7	7.3
400	43.7	28.7	25.8	11.2	8.2	6.0
500	49.3	26.1	23.2	9.3	6.3	6.0

MECHANICAL CHARACTERISTICS

Bending Radius : < 8 x Cable Diameter at -20°C ± 1°

Temperature Range

Installation : 0° to +50°C
Operation :-15° to +75°C

ORDERING INFORMATION

MODEL NAME	DESCRIPTION
NCB-6AULBUR-305-24	Cat.6a U/UTP CABLE,24AWG,305m,PVC Sheath-Light Blue