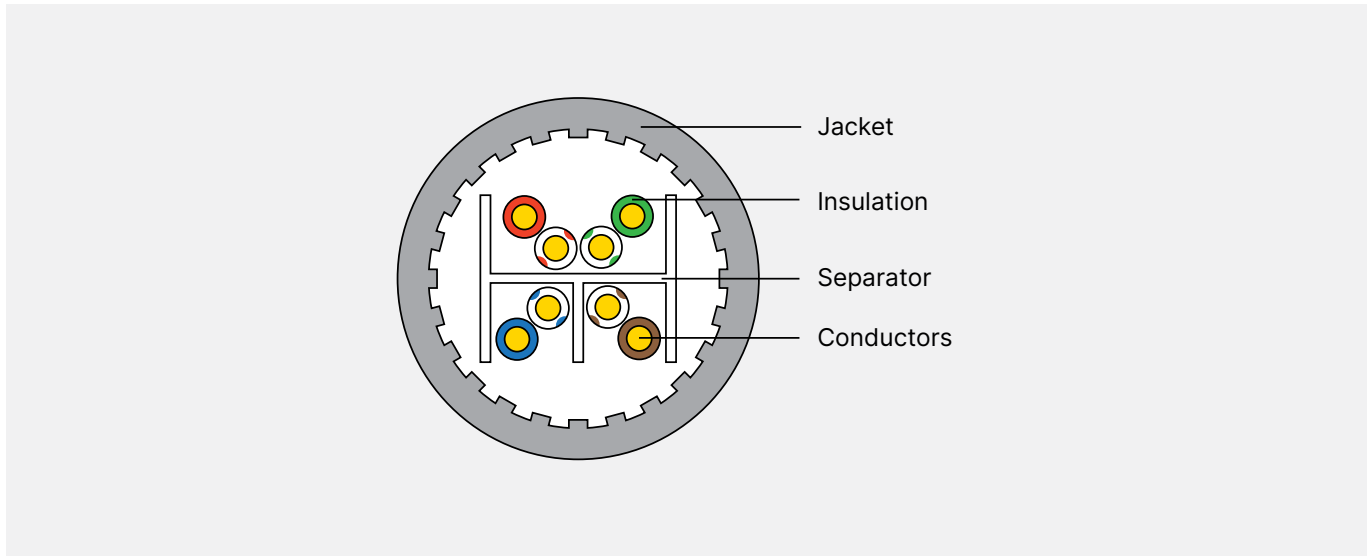


CAT6a UTP 23AWG Solid Cable



Material Specifications

Conductors	Bare copper, 23AWG, 1 × 0.57±0.005mm
Insulation	HDPE, O.D. 1.09±0.03mm
Foil Screen	n/a
Braid	n/a
Drain wire	n/a
Jacket	LSZH 0.55mm thickness, O.D. 8.6±0.2mm
Separator	PE

Part Number	Description
CC-CAT6A-305M-BLUE	Cat.6A U/UTP 23AWG Solid Cable 305metre BOX, IEC60332-1-2 LSZH.

Installation Information

Install temperature	0°C to 50°C (32°F to 122°F)
Storage temperature	-40°C to 60°C (-40°F to 140°F), under static conditions
Operating temperature	-20°C to 60°C (-4°F to 140°F), under static conditions
Pulling tension	Max. 100N
Bend radius	Min. 35mm (4x of cable O.D.)
UL temperature rating	75°C

Electrical Characteristics (ANSI / TIA-568.2-D)

DC resistance	Max. 7.32Ω/100m for each conductor (UL444)
DC resistance unbalance	Max. 4% within a pair at 20°C
DC resistance unbalance pair-pair	n/a
Dielectric strength	1kV d.c./0.7kV a.c. for 1min. or 2.5kV d.c./1.7kV a.c. for 2s (IEC61156-5)
Insulation resistance	5000MΩ/km (IEC61156-5)
Mutual capacitance	Max. 5.6nF/100m, 1kHz at 20°C
Capacitance unbalance pair-ground	Max. 330pF/100m, 1kHz at 20°C
Transfer impedance	n/a
Coupling attenuation	n/a
Phase delay	Max. 536ns/100m at 500MHz
Delay skew	Max. 45ns/100m, from 1 to 500MHz at 20°C
Nominal velocity propagation	66% at 100MHz
Characteristic Impedance	100±5Ω at 100MHz
PoE	60Vd.c., 4PPoE 100W, IEEE802.3bt type 4
UL voltage rating	300V(UL444)

Transmission performance (ANSI/TIA-568.2-D, 100m, at 20°C)

Frequency MHz	Return loss Min. dB	Insertion loss Max. dB	NEXT Min. dB	PSNEXT Min. dB	ACRF Min. dB	PSACRF Min. dB	TCL Min. dB
1	20.0	2.1	74.3	72.3	67.8	64.8	50.0
4	23.0	3.8	65.3	63.3	55.8	52.8	44.0
100	20.1	19.1	44.3	42.3	27.8	24.8	30.0
250	17.3	31.1	38.3	36.3	19.8	16.8	26.0
500	15.2	45.3	33.8	31.8	13.8	10.8	23.0

NOTE: Other colours available upon request

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