DATA SHEET

CODECOM

305m Box of Cat 6A UTP Cable Blue

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CAT6A UTP 23AWG Solid Cable

The Codecom CAT6A F/UTP 23AWG Solid Cable delivers Class EA performance in a foil-shielded construction designed for demanding enterprise and data centre environments. Built with solid bare copper conductors and an aluminium/PET foil screen around all four pairs, this cable provides superior immunity to electromagnetic interference and alien crosstalk, making it the preferred choice where high-density cabling or electrically noisy environments are a concern. Supplied on a 305m drum, it suits both large structured cabling projects and staged rollouts requiring consistent, standards-compliant performance across every run.

Material Specifications

CONDUCTORS	Bare copper, 23AWG, 1 x 0.551±0.005mm
INSULATION	HDPE, O.D. 0.97±0.03mm
FOIL SCREEN	n/a
BRAID	n/a
DRAIN WIRE	n/a
JACKET	0.55mm thickness, O.D. 5.9±0.2mm
MYLAR	n/a
SEPARATOR	PE

Printing on the Cable

UL CM PVC	U/UTP INSTALL CABLE 23AWG 4PR E178558 C(UL)US TYPE CM 75°C ETL VERIFIED ISO/ IEC 11801 CLASS E & ANSI/TIA-568.2-D CAT.6 XXXXXXX-X XXXM
UL CMR PVC	U/UTP INSTALL CABLE 23AWG 4PR E178558 C(UL)US TYPE CMR 75°C ETL VERIFIED ISO/ IEC 11801 CLASS E & ANSI/TIA-568.2-D CAT.6 XXXXXXX-X XXXM
PVC	U/UTP INSTALL CABLE 23AWG 4PR PVC ETL VERIFIED ISO/IEC 11801 CLASS E & ANSI/TIA-568.2-D CAT.6 XXXXXXX-X XXXM
LSZH	U/UTP INSTALL CABLE 23AWG 4PR LSZH ETL VERIFIED ISO/IEC 11801 CLASS E & ANSI/ TIA-568.2-D CAT.6 XXXXXXX-X XXXM

Installation Information

INSTALLING 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. 24mm (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 250MHz
DELAY SKEW	Max. 45ns/100m, from 4 to 250MHz at 20°C
NOMINAL VELOCITY PROPAGATION	69.5% at 100MHz
CHARACTERISTIC IMPEDANCE	100±5Ω at 100MHz
POE	60Vd.c., 4PPoE 100W, IEEE802.3bt type 4
UL VOLTAGE RATING	300V(UL444)

1/22 Buchanan Road,
Brooklyn VIC 3012 Australia
03 9314 4055

sales@codecom.com.au
accounts@codecom.com.au
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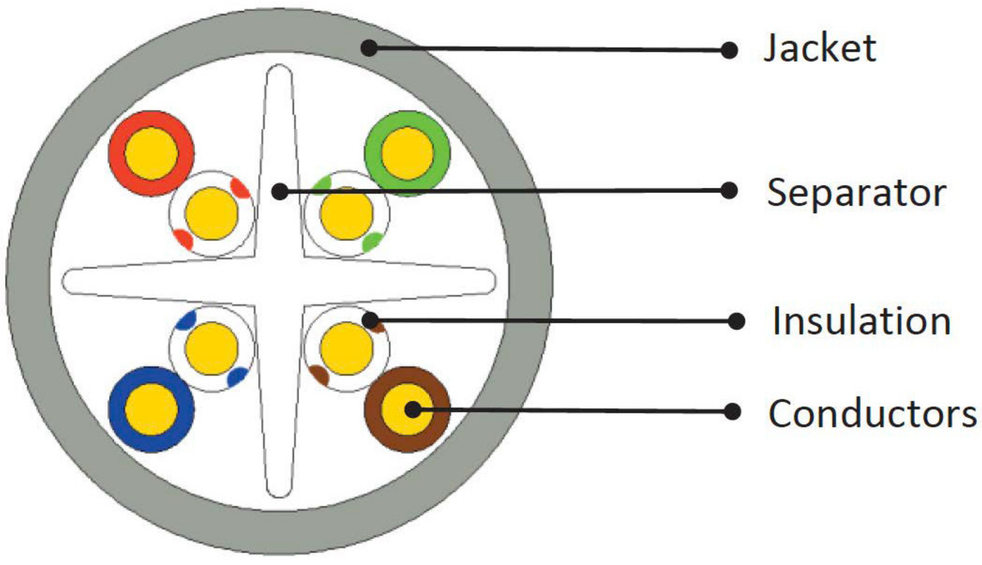
Transmission Performance (ANSI/TIA-568.2-D, 100m, at 20°C)

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	2.0	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	19.8	44.3	42.3	27.8	24.8	30.0
250	17.3	32.8	38.3	36.3	19.8	16.8	26.0

Ordering Information

PART NUMBER	DESCRIPTION
CC-CAT6A-305M-BLUE	305m Box of Cat6A UTP Cable BLUE

Technical Drawings



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