

# CAT6A DIRECT BURIAL STP CMXT

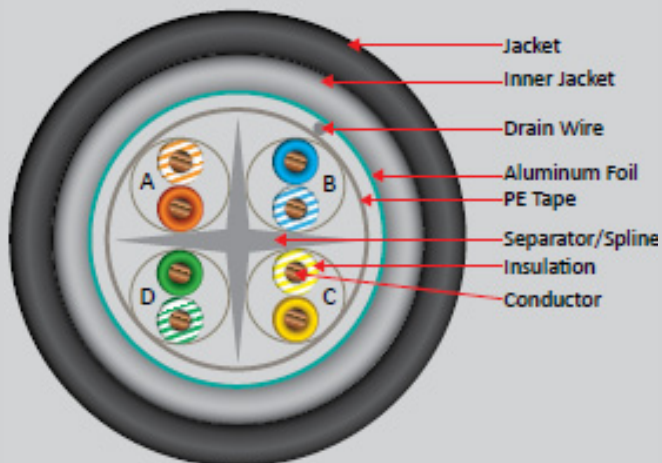
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## DESCRIPTION

Category-6A, Shielded CMXT, Dual Jacket, Direct Burial, 23AWG, 8-Conductor, Solid-Bare Copper, 1000ft Spool, Black

## FEATURES

- High-Performance Data Cable
- Rated for 750MHz
- Handles 10BASE-T, 100BASE-TX, 1000BASE-TX, and 10GBASE-T
- Category-6A Shielded Twisted Pair
- Dual Jacket, Outer LDPE Jacket
- Easily Identified Color-Striped Pairs
- 23AWG Solid Bare Copper Conductors
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- ETL Listed, RoHS Compliant
- 1000ft Wooden Spool



### Technical Data

Rated Temperature -40~70 °C  
Rated Voltage 30V

### Conductor

Size Solid Bare Copper  
23 AWG

Diameter (±0.005mm) 1.585

### Insulation

Average Thickness (mm) 0.29

Min Point Thickness (mm) 0.28

Insulation Diameter (±0.03mm) 1.18

### Colors

Pair 1:Blue,White-Blue

Pair 2:Orange,White-Orange

Pair 3:Green,White-Green

Pair 4:Brown,White-Brown

### Lay Length

Twisting Lay Length (mm) 20 underneath

Cabling Lay Length (±20mm) 100

Central Separator (mm) 5.5x0.6

Polyester Film 0.03x25

Drain Wire (Tinned Cooper, mm) 0.5

AL Foil (mm) 0.07x25

### Jacket

Inner Jacket Material (Gray) PVC

Outer Jacket Material (Black) LDPE

Average Thickness (mm) 0.65

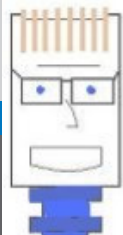
Min Point Thickness (mm) 0.58

Outer Diameter (±0.2mm) 8.5

Rip Cord None

### Jacket Print:

VERTICAL 4009208 c(ETL)us VERIFIED OUTDOOR DIRECT BURIAL LLDPE  
10GS AUGMENTED CAT6A 4PR 23AWG TIA/EIA -568C.2 ROHS XXXFT



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Rev. 07/2015

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## PERFORMANCE

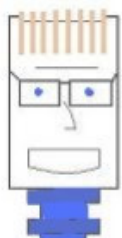
### Electrical Characteristics:

1.0 ~ 100MHz Impedance( $\Omega$ /100m)	100±15
100 ~ 200MHz Impedance( $\Omega$ /100m)	100±20
200 ~ 500MHz Impedance( $\Omega$ /100m)	100±25
1~500MHz Propagation Delay Delay Skew (ns/100m)	≥45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≥330
Conductor DC Resistance 20°C ( $\Omega$ /100m)	≤9.38
DC Resistance Unbalance (%)	≤4.0
Material Capacitance 1KHz 20°C (nF/100m)	≤5.6

Frequency MHz	Return Loss dB	Attenuation dB/100m	NEXT dB	ACR dB	PSNEXT dB	ACRF dB/100m	PSACRF dB/100m	Delay ns/100m
1.00	20.0	2.1	74.3	72.2	72.3	67.8	64.8	570
4.00	23.0	3.8	65.3	61.5	63.3	55.8	52.8	552
8.00	24.5	5.3	60.8	55.5	58.8	49.7	46.7	546
10.00	25.00	5.9	59.3	53.4	57.3	47.8	44.8	545
16.00	25.00	7.5	56.2	48.7	54.2	43.7	40.7	543
20.00	25.00	8.4	54.8	46.4	52.8	41.8	38.8	542
25.00	24.3	9.4	53.3	43.9	51.3	39.8	36.8	541
31.25	23.6	10.5	51.9	41.4	49.9	37.9	34.9	540
62.50	21.5	15.0	47.4	32.4	45.4	31.9	28.9	538
100.00	20.1	19.1	44.3	25.2	42.3	27.8	24.8	537
200.00	18.0	27.6	39.8	12.2	37.8	21.8	18.8	536
250.00	17.3	31.1	38.3	7.2	36.3	19.8	16.8	536
300.00	16.8	34.3	37.1	2.8	35.1	18.3	15.3	536
400.00	15.9	40.1	35.3		33.3	15.8	12.8	536
500.00	15.2	45.3	33.8		31.8	13.8	10.8	536
550.00	14.9	51.8	33.2		31.2			

### Mechanical Characteristics:

<b>Test Object</b>	<b>Jacket</b>
Test Material	LDPE
Before Tensile Strength (Mpa)	≥13.34
Aging Elongation (%)	≥100
Aging Condition (±1.0°Cxhrs)	100x168
After Tensile Strength (Mpa)	≥7.21% of Unaged
Aging Elongation (%)	≥45% of Unaged
Cold Bend (-20±2°Cxhrs) (4hrs)	No Crack
Heat Shock Test (121±1.0°Cx1h)	No Crack



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