

# CAT6 STP OUTDOOR CABLE

## CMX UV RATED with Messenger

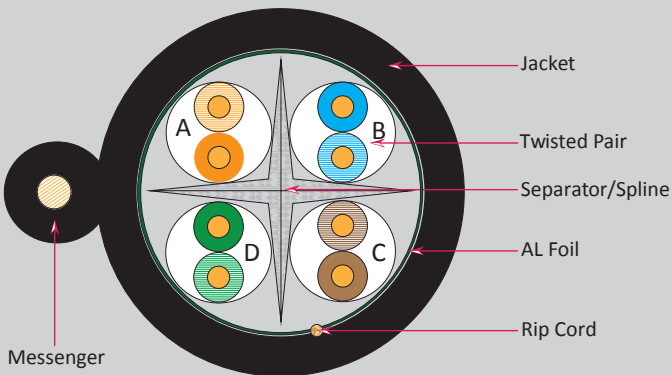
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### DESCRIPTION

Category-6 STP, Outdoor Rated Cable with Messenger, 23AWG Solid-Bare Copper.

### FEATURES

- Ideal for Outdoor Aerial Applications
- Galvanized Steel Messenger for Support
- Easily Identified Color-Striped Pairs
- 23AWG Solid Copper Conductors
- Exceeds TIA/EIA-568B.2 Standards
- ETL Listed RoHS Compliant
- 1000ft Wooden Spool



**SKU: 069-563/S/MESG**

#### Technical Data

Rated Temperature	70°C
Rated Voltage	30V
Flammability Test	IEC-332-1

#### Conductor

Size **Solid Bare Copper**

#### Insulation

Average Thickness (mm)	0.213
Insulation Diameter (±0.005mm)	1.01
Twisted Pair Diameter (±0.01)	2.02

#### Separator/Spline

#### Drain Wire (mm)

#### Aluminum Foil

#### Assembly Diameter

#### Messenger

Diameter (mm)	<b>LDPE</b>
	<b>0.40 (TC)</b>
	<b>Yes</b>
	<b>6.20</b>
	<b>Galvanized Steel</b>
	<b>1.30</b>
	<b>LLDPE</b>
	<b>0.80x0.65</b>
	<b>7.80x2.60</b>
	<b>Yes (Nylon)</b>

#### Jacket (Black)

Average Thickness (mm)	0.80x0.65
Outer Diameter (±0.10mm)	7.80x2.60
Rip Cord	Yes (Nylon)

#### Color of Pairs

- Pair 1: Blue, White-Blue
- Pair 2: Orange, White-Orange
- Pair 3: Green, White-Green
- Pair 4: Brown, White-Brown

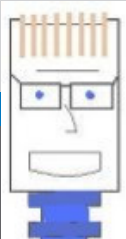
#### Mechanical Characteristics

Test Object	Jacket
Test Material	LLDPE
Before Tensile Strength (Mpa)	>=10.6
Aging Elongation (%)	>=300
Aging Condition (°Cxhrs)	100x168
After Tensile Strength (Mpa)	>=85% of unaged
Aging Elongation (%)	>=50% of unaged
Cold Bend (-20±2° Cx4hrs)	No Crack

#### Marking on Jacket

VERTICAL 4001453 cETLus VERIFIED CMX STP 4PR  
23 AWG OUTDOOR UV WITH MESSENGER CAT6 550MHz  
TIA/EIA - 568B.2-1 RoHS XXXFT

Jacket color available in  
Black



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Rev. 10/2012

Subject to change without notice.

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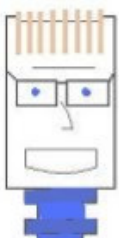
### PERFORMANCE

#### Electrical Characteristics:

1.0-250MHz Impedance (Ohms)	100±15
1.0-250.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	72.2
Resistance Unbalance (%)	<=5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (dB/100m)	Next (Min dB)
1	20.0	2.0	74.3
4	23.0	3.8	65.3
8	24.5	5.3	60.8
10	25.0	6.0	59.3
16	25.0	7.6	56.2
20	25.0	8.5	54.8
25	24.3	9.5	53.3
31.25	23.6	10.7	51.9
62.5	21.5	15.4	47.4
100	20.1	19.8	44.3
200	18.0	29.0	39.8
250	17.3	32.8	38.3
300	16.8	36.4	39.2
400	15.9	43	37.3

Frequency (Mhz)	PSNext Min (dB)	ELFEXT Min(db/100m)	Delay Max(ns/100m)
1	72.3	70.0	570.0
4	63.3	67.8	552.0
8	58.8	55.8	546.0
10	57.3	49.7	545.0
16	54.3	47.8	543.0
20	52.8	43.7	542.0
25	51.3	41.8	541.0
31.25	49.9	39.8	540.0
62.5	45.4	37.9	538.0
100	42.3	31.9	537.0
200	37.8	21.8	536.0
250	36.3	19.8	536.0
300	37.2	18.2	535.0
400	35.3	15.7	534.0



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