

# CAT6 DIRECT BURIAL STP (WATER PROOF TAPE)

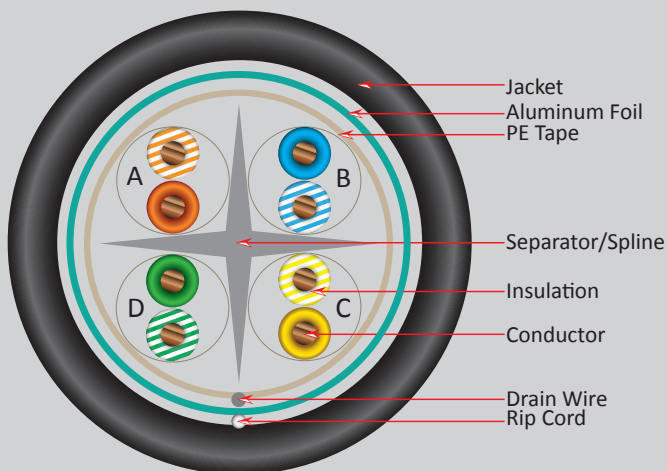
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## DESCRIPTION

Category-6 CMXT, 8-Conductor, Direct Burial, 23AWG Solid-Bare Copper.

## FEATURES

- High-Performance Data Cable
- 600MHz Bandwidth for Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Category-6 Shielded Twisted Pair
- Easily Identified Color-Striped Pairs
- 23AWG Solid Copper Conductors
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- CAN/CSA -C22.2 No. 214
- ETL Listed, RoHS Compliant
- 1000ft Wooden Spool



### Technical Data

Rated Temperature	-40~70 °C
Rated Voltage	30v
<b>Conductor</b>	<b>Solid Bare Copper</b>
Size	23 AWG
<b>Insulation</b>	<b>PE</b>
Insulation Diameter (±0.01mm)	1.02
Twisted Pair Diameter (±0.02mm)	2.04
<b>Separator</b>	<b>LDPE</b>
<b>Assembly Diameter</b>	<b>6.50mm</b>
<b>PE Tape</b>	<b>Yes</b>
<b>Waterblock Tape</b>	<b>Yes</b>
<b>Al-Foil</b>	<b>Yes</b>
<b>Drain Wire (Tinned Copper)</b>	<b>0.40mm</b>
<b>Jacket</b>	<b>LLDPE (UV)</b>
Outer Diameter (±0.30mm)	8.20
Rip Cord	Yes
Color	Black

### Color of Pairs

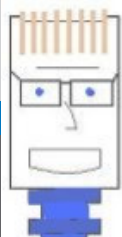
- Pair 1: Blue, White-Blue
- Pair 2: Orange, White-Orange
- Pair 3: Green, White-Green
- Pair 4: Brown, White-Brown

### Mechanical Characteristics

Test Object	Jacket
Test Material	<b>LLDPE</b>
Before Tensile Strength (Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging Condition (°Cxhrs)	100x168
After Tensile Strength (Mpa)	≥85% of unaged
Aging Elongation (%)	≥50% of unaged
Cold Bend (-40±2° Cx4hrs)	No Crack
Bend radius	>100mm

### Marking on Jacket

VERTICAL 4001453 cETLus VERIFIED STP 4PR 23AWG OUTDOOR DIRECT BURIAL UV LLDPE CAT6 600MHz TIA/EIA - 568C.2 RoHS XXXFT (SEQUENTIAL FOOT MARKERS ON JACKET)



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Rev. 05/2015

Specs subject to change without notice.

It is the sole responsibility of the user to have the most current specs.

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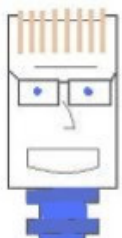
## PERFORMANCE

### Electrical Characteristics:

Characteristics Impedance	1~600 MHz 100±15 Ohms
Conductor Resistance	93.8 Ohm/Km/20°C Max
Mutual Capacitance	56 pF/M Max
Dielectric Strength	AC 1.5 KV/Min
Spark Test	2.5 KV
DC Resistance Unbalance	5% Max
Delay Skew	1~600 MHz 25nS/100m Max

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (dB/100m)	Next Min (dB)
1	20.0	2.0	76.3
4	23.0	3.8	67.3
8	24.5	5.3	62.8
10	25.0	6.0	61.3
16	25.0	7.6	58.3
20	25.0	8.5	56.8
25	24.3	9.5	55.3
31.25	23.6	10.7	53.9
62.5	21.5	15.4	49.4
100	20.1	19.8	46.3
155	18.8	25.1	43.5
200	18.0	29.0	41.8
250	17.3	32.8	40.3
300	16.8	36.4	39.2
400	15.9	43.0	37.3
500	15.5	47.2	35.4
600	14.4	50.3	32.8

Frequency (Mhz)	PSNext Min (dB)	ELFEXT Min(db/100m)	ACR Min(dB)
1	74.3	67.8	74.3
4	65.3	55.7	63.5
8	60.8	49.7	57.5
10	59.3	47.8	55.3
16	56.3	43.7	50.7
20	54.8	41.7	48.3
25	53.3	39.8	45.8
31.25	51.9	37.9	43.2
62.5	47.4	31.8	34.0
100	44.3	27.8	26.5
155	41.5	23.9	18.4
200	39.8	21.7	12.8
250	38.3	19.8	7.5
300	37.2	18.2	2.8
400	35.3	15.7	NA
500	33.6	13.4	NA
600	32.1	12.6	NA



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