

VPI P/N: CAT6-BULK23-STP-ODB-BLACK

CAT6 DIRECT BURIAL STP (WATER PROOF TAPE)

DESCRIPTION

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

FEATURES

- High-Performance Data Cable
- 600MHz Bandwith 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-568B.2-1, ISO/IEC 11801
- CAN/CSA -C22.2 No. 214
- ETL Listed
- 1000ft Wooden Spool



Technical Data

Rated Temperature	70°C (158°F)
Rated Voltage	30V
Conductor	Solid Bare Copper
Size	23 AWG
Insulation	PE
Insulation Diameter (±0.01mm)	1.02 mm (0.04 in.)
Twisted Pair Diameter (±0.02mm)	2.04 mm (0.08 in.)
Seperator	LDPE
Assembly Diameter	6.50mm (0.26 in)
PE Tape	Yes
Waterblock Tape	Yes
Al-Foil	Yes
Drain Wire (Tinned Copper)	0.40mm (0.015 in.)
Jacket	LLDPE (UV)
Outer Diameter (±0.30mm)	8.20 mm (0.32 in.)
Rip Cord	Yes
Color	Black

Color of Pairs

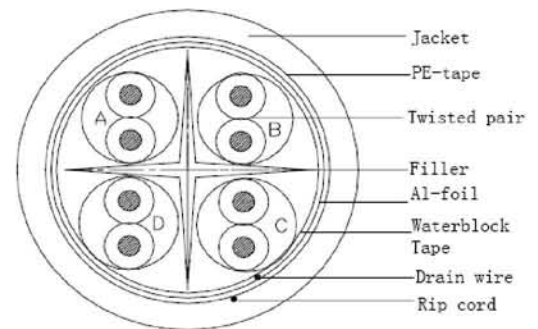
Pair 1:Blue,White-Blue
 Pair 2:Orange,White-Orange
 Pair 3:Green,White-Green
 Pair 4:Brown,White-Brown

Mechanical Characteristics

Test Object	Jacket
Test Material	LLDPE
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 (-20±2° Cx4hrs)	No Crack

Marking on Jacket

cETLus VERIFIED STP 4PR 23AWG OUTDOOR DIRECT BURIAL
 UV LLDPE CAT6 600MHz TIA/EIA - 568B.2-1 RoHS
 XXXFT (SEQUENTIAL FOOT MARKERS ON JACKET)



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PERFORMANCE

Electrical Characteristics:

Characteristics Impedance	1~400 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	1~400 MHz 25nS/100m Max

Electrical Performance

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

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

