

CAT6 HIGH GRADE 550MHz STP CMR RATED (SHIELDED)

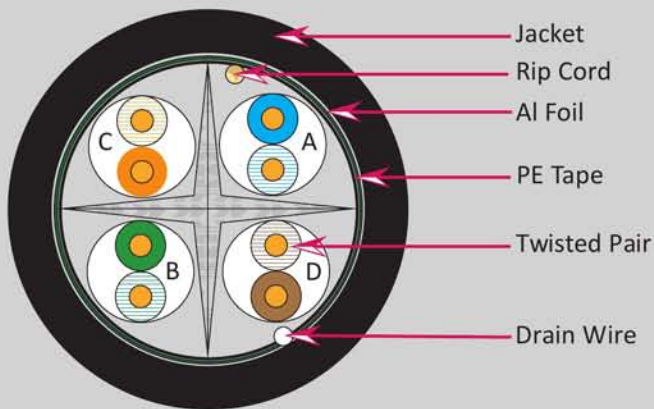
CAT6-BULK-STP-BLUE550

DESCRIPTION

Category-6, 23AWG, STP, 8C Solid Copper, 550MHz, Riser Rated, PVC Jacket 1000ft.

FEATURES

- High-Performance Data Cable
- 550MHz Bandwidth for Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Category-6 Shielded Twisted Pair
- Easily Identified Color-Striped Pairs
- 23AWG Solid Bare Copper Conductors
- Exceeds EIA/TIA 568-B.2-1, ISO/IEC-11801
- Riser Rated (CMR)
- 1000ft Wooden Spool



Technical Data

Rated Temperature	70°C
Rated Voltage	30V
Product Standard Certification	CMR

Conductor

Size **Solid Bare Copper**

Insulation

Average Thickness (mm)	0.22
Insulation Diameter (± 0.005 mm)	1.01
Twisted Pair Diameter (± 0.01)	2.02
Filler	LDPE
Bond	PE Tape
Shield	AL-Foil
Drain Wire (TC)	0.40

Assembly Diameter

Jacket

Average Thickness (mm)	0.60
Outer Diameter (± 0.10 mm)	7.80
Rip Cord	Yes

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	PVC
Before Tensile Strength (Mpa)	≥ 13.8
Aging Elongation (%)	≥ 100
Aging Condition ($^{\circ}\text{C} \times \text{hrs}$)	100x168
After Tensile Strength (Mpa)	$\geq 85\%$ of unaged
Aging Elongation (%)	$\geq 50\%$ of unaged
Cold Bend ($-20 \pm 2^{\circ} \text{C} \times 4 \text{hrs}$)	No Crack

Marking on Jacket

VERTICAL 4001453 ETL VERIFIED CMR FT4 STP 4PR 23AWG
CAT6 550MHz TIA/EIA-568B.2-1 RoHS XXXFT
(SEQUENTIAL FOOT MARKERS ON JACKET)

Jacket color Blue



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PERFORMANCE

CAT6-BULK-STP-BLUE550

Electrical Characteristics:

1.0-100MHz Impedance (Ohms)	100±15
100-250MHz Impedance (Ohms)	100±25
250-550MHz Impedance (Ohms)	100±35
1.0-100.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	95
Resistance Unbalance (%)	<=5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (dB/100m)	Next (Min dB)
0.772	19.4	1.8	76.0
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
350	16.3	39.8	36.1
450	15.5	46.0	34.5
550	14.9	51.7	33.2

Frequency (Mhz)	PSNext Min (dB)	ELFEXT Min(db/100m)	Delay Max(ns/100m)
0.772	74.0	70.0	----
1	72.3	67.8	570.0
4	63.3	55.8	552.0
8	58.8	49.7	546.0
10	57.3	47.8	545.0
16	54.2	43.7	543.0
20	52.8	41.8	542.0
25	51.3	39.8	541.0
31.25	49.9	37.9	540.0
62.5	45.4	31.9	538.0
100	42.3	27.8	537.0
200	37.8	21.8	536.0
250	36.3	19.8	536.0
350	34.1	17.1	535.0
450	32.5	15.2	534.0
550	31.2	13.2	532.0



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