

Category 6 550 MHz Non-Plenum



PART NUMBER: CBL-C6-550-CMR-BU

CATEGORY: Cat6 550mhz (CMR) Riser Blue

TEST STANDARD: ANSI/TIA/EIA 568C.2 Category 6

APPLICATIONS:

Supports all Gigabit Ethernet/1000BASE-T/IEEE 802.3ab, ATM up to 155 Mbps, 100 Mbps Fast Ethernet 100BASE-T/IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet 10BASE-T/IEEE 802.5, T1/E1, xDSL, ISDN, 550 MHz Broadband Video and standards under development such as ATM at 622 Mbps, 1.2, 2.4 and 4.8 Gbps

CONSTRUCTION DETAILS:

No. 23 AWG solid bare copper conductor insulated with polyethylene. Two colored mated insulated conductors twisted together to form a pair and four pairs assembled to form a core. The core is jacketed with a flame retardant PVC. Surface Print: ETL VERIFIED CAT6 TO TIA-568C.2...3122598 CMR ENHANCED CAT6 23AWG 4UTP C(ETL)US FT4 MADE IN USA

TECHNICAL DETAILS:

Temperature Rating

Installation: 0°C to 50°C
Operation: -10°C to 60°C
Nominal Diameter: 0.240 in.
Nominal Cable Weight: 34 lbs/1,000 feet

CORE COLOR:

Core Color:

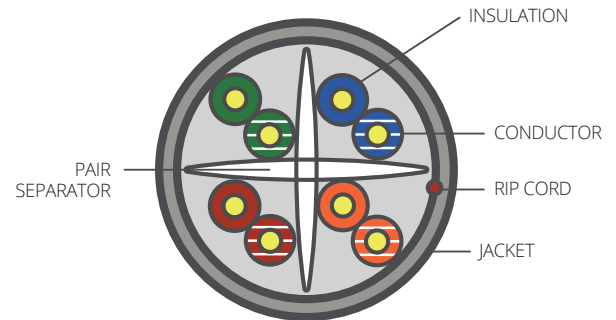
- 1) Blue with White
- 2) Orange with White
- 3) Green with White
- 4) Brown with White

STANDARDS:

- ANSI/TIA/EIA 568C.2 Category 6
- National Electric Code - Article 800

ELECTRICAL CHARACTERISTICS

Frequency (MHZ)	Return Loss (db/100m) Min	Attenuation (db/100m) Max	NEXT (db/100m) Min	PS-NEXT (db/100m) Min	ELFEXT (db/100m) Min	PS-ELFEXT (db/100m) Min	ACR (db/100m) Min	PS-ACR (db/100m) Min
1	20.0	2.0	80.3	78.3	73.8	70.8	78.3	76.3
4	23.0	3.8	71.3	69.3	61.8	58.8	67.5	65.5
10	25.0	6.0	65.3	63.3	53.8	50.8	59.3	57.3
16	25.0	7.6	62.2	60.2	49.7	46.7	54.6	52.6
20	25.0	8.5	60.8	58.8	47.8	44.8	52.3	50.3
31.25	23.6	10.7	57.9	55.9	43.9	40.9	47.2	45.2
62.5	21.5	15.4	53.4	51.4	37.9	34.9	38.0	36.0
100	20.1	19.8	50.3	48.3	33.8	30.8	30.5	28.5
200	18.0	29.0	45.8	43.8	27.8	24.8	16.8	14.9
250	17.3	32.8	44.3	42.3	25.8	22.8	11.5	9.5
300	16.8	36.4	43.1	41.1	24.3	21.3	-	-
350	16.3	39.8	42.1	40.1	22.9	19.9	-	-
400	15.9	43.0	41.3	39.3	21.8	18.8	-	-
500	14.8	49.5	40.2	38.2	20.0	17.0	-	-
550	14.4	53.1	39.5	37.5	18.9	15.9	-	-



ELECTRICAL PARAMETERS:

Mutual Capacitance: 14 pF/ft nominal
Capacitance Unbalance: 330 pF/ft maximum
Velocity of Propagation: 70%
Max. Conductor D.C.R.: 28.6 ohm/1000 feet
Max. DCR Unbalance: 5%
Max. Delay Skew: 45.0 ns/100m
Characteristic Impedance:
from 0.772 - 100 MHz 100 ± 15%
from 101 - 250 MHz 100 ± 22%
from 251 - 550 MHz 100 ± 32%

CODES & LISTINGS:

- CMR Rating FT4
- ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 6
- C(ETL) US CMR



NOTE: * are the reference values

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CAT 6