

Category 6 Enhanced 550 MHz Plenum

ETL verified for guaranteed performance
Made in the USA

Part No.: 6BNS

Applications

Supports all category 6 applications including Ethernet 100BASE-TX, 100BASE-VG and 155 ATM. Particularly suited for high bandwidth applications with anticipated data rates to 3.2 Gbps.

Construction Details:

No. 23 AWG solid bare copper conductor insulated with FEP. Two colored mated insulated conductors twisted together to form a pair and four pairs with a tape separator assembled to form a core. The core is jacketed with a low smoke flame retardant PVC.
Surface Print: ETL VERIFIED CAT6 TO TIA-568C.2...3122598
CMP 23AWG 4UTP 550 MHZ C(ETL)US MADE IN USA + Sequential Footage Marking

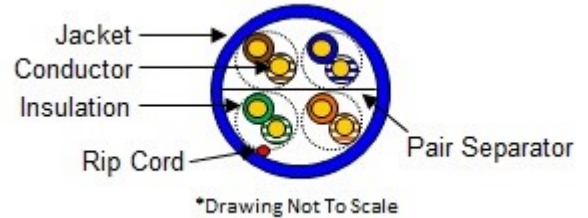
Color Code:

Pair	Color Code
1	Blue with White
2	Orange with White
3	Green with White
4	Brown with White

Electrical Parameters:

Mutual Capacitance:	14 pF/ft nominal
Capacitance Unbalance:	330 pF/ft maximum
Velocity of Propagation:	72%
Max. Conductor D.C.R.:	28.6 ohm/1,000 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%

Issue Date: 04/18
Revision: 6



Technical Details

Temperature Rating

Installation 0°C to 50°C

Operation -10°C to 75°C

Nominal Diameter 0.220 in.

Nominal cable weight: 29 lb/1000 feet

Standards

- ANSI/TIA/EIA 568C.2 Category 6
- UL Subject 444
- UL 910

Codes & Listings

- CMP rating FT6
- ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 6
- C(ETL)US CMP





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Electrical Characteristics:

Frequency	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
	dB	dB(100m)	dB	dB	dB	dB	dB	dB
MHz	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
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	---	---

*Values above 250 MHz are for engineering information only



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