

GigaTrue 550 CAT6, 550-MHz Solid Bulk Cable (UTP)



**Our 550-MHz cable exceeds CAT6
with plenty of headroom!**

FEATURES

- Constructed of 4-pair, 23 AWG solid bare copper.
- Polyester rip cord.
- PVC cable has flame-retardant PVC jacket and polyolefin insulation.
- Plenum cable has Flexguard flame-retardant PVC jacket and FEP insulation.
- For easy dispensing, these cables come in pull boxes.
- Cable is marked in descending 2-foot (0.6-m) increments so you always know how much you have left.

Buyer's Guide GigaTrue® 550, CAT6, 550-MHz Solid Bulk Cable (UTP)

Frequency MHz (Maximum)	Attenuation dB/100 m (328 ft.) (Maximum)	ACR dB/100 m (328 ft.) (Minimum)	PS-ACR dB/100 m (328 ft.) (Minimum)	NEXT dB/100 m (328 ft.) (Minimum)	PS-NEXT dB/100 m (328 ft.) (Minimum)	ELFEXT dB/100 m (Minimum)	PS-ELFEXT dB/100 m (Minimum)	Return Loss dB (Minimum)
1	2	77.3	75.3	79.3	77.3	69.8	66.8	20
4	3.8	66.5	64.5	70.3	68.3	57.7	54.7	23
8	5.3	60.5	58.5	65.8	63.8	51.7	48.7	24.5
10	5.9	58.4	56.4	64.3	62.3	49.8	46.8	25
16	7.5	53.8	51.8	61.3	59.3	45.7	42.7	25
20	8.4	51.4	49.4	59.8	57.8	43.8	40.8	25
31.25	10.5	46.4	44.4	56.9	54.9	39.9	36.9	25
62.5	15.1	37.2	35.2	52.4	50.4	33.9	30.8	21.5
100	19.4	29.9	27.9	49.3	47.3	29.8	26.8	20.1
155	24.6	21.9	19.9	46.5	44.5	26	23	18.8
200	28.3	16.5	14.5	44.8	42.8	23.8	20.8	18
250	32	11.4	9.4	43.3	41.3	21.8	18.8	17.3
300	35.4	6.8	4.8	42.2	40.2	20.3	17.3	16.8
400	41.6	—	—	40.3	38.3	17.8	14.8	15.9
500	47.3	—	—	38.8	36.8	15.8	12.8	15.2
550	49.9	—	—	38.2	36.2	15	12	14.9

- Complies with ICEA S-90-661 (Category 5X-160), ISO/IEC 11801 Class E, ANSI/TIA/EIA-568A (CAT5), and UL® MPR/CMR, CMG, or MPP/CMP.
- Perfect for digital video, 100-Mbps TP-PMD, and 155-Mbps ATM networks.
- Great for 622-Mbps ATM, Gigabit Ethernet, and wideband Ethernet.

Technically Speaking

Category 6.

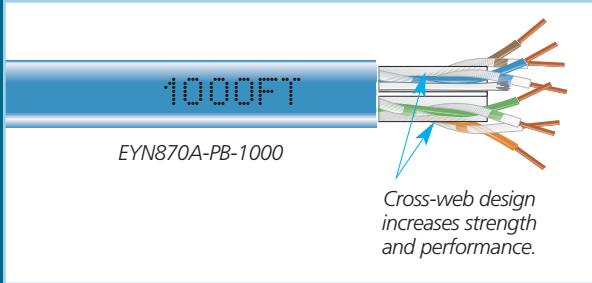
Category 6 (ANSI/TIA/EIA-568-B.2-1) was ratified by the TIA/EIA in June 2002. CAT6 provides higher performance than CAT5e and features more stringent specifications for crosstalk and system noise.

The quality of the data transmission depends upon the performance of all the components of the channel. So to transmit according to CAT6 specs, the jacks, patch cables, patch panels, cross-connects, and cabling must all meet CAT6 standards. (The channel includes everything from the wallplate to the wiring closet.) The CAT6 components are tested individually, and they are also tested together for performance. In addition, the standard calls for generic system performance so that CAT6 components from any vendor can be used in the channel.

CAT6 channel transmission requirements should result in a Power-Sum Attenuation-to-Crosstalk Ratio (PS-ACR) that's greater than or equal to zero at 200 MHz.

In addition, all CAT6 components must be backward compatible with CAT5e, CAT5, and CAT3. If different category components are used with CAT6 components, then the channel will achieve the transmission performance of the lower category. For instance, if CAT6 cable is used with CAT5e jacks, the channel will perform at a CAT5e level.

For advice about making the best cabling investment for your application, call our FREE Tech Support.



TECH SPECS

ACR (Minimum) — 29.9 dB @ 100 MHz
Attenuation (Maximum) — 19.4 dB/100 m @ 100 MHz; 49.9 dB/100 m @ 550 MHz
Characteristic Impedance — 1–550 MHz; 100 ±15 ohms
Conductor — 23 AWG, solid, bare copper
Delay Skew (Maximum) — 25 ns/100 m
ELFEXT (Minimum) — 29.8 dB @ 100 MHz; 15 dB @ 550 MHz
Input Impedance — 1–250 MHz; 100 ±15 ohms
NEXT (Minimum) — 49.3 dB @ 100 MHz; 38.2 dB @ 550 MHz
PS-ACR (Minimum) — 27.9 dB @ 100 MHz
PS-ELFEXT (Minimum) — 26.8 dB @ 100 MHz; 12 dB @ 550 MHz
PS-NEXT (Minimum) — 47.3 dB @ 100 MHz; 36.2 dB @ 550 MHz
Return Loss (Minimum) — 20.1 dB @ 100 MHz; 14.9 dB @ 550 MHz
Standards — ICEA S-90-661 (Category 5X-160), ISO/IEC 11801 Class E, ANSI/TIA/EIA-568A (Category 5), and UL MPR/CMR, CMG, or MPP/CMP
Velocity of Propagation (Minimum) — 62.2% @ 550 MHz

Item	Code
GigaTrue 550 CAT6, 550-MHz Solid Bulk Cable (UTP), 4-Pair, 1100-ft. (335.2-m), Pull Box	
PVC	
Yellow	EYN872A-PB-1100
Green	EYN878A-PB-1100
Plenum	
Yellow	EYN873A-PB-1100
Green	EYN879A-PB-1100
1000-ft. (304.8-m), Pull Box	
PVC	
Blue	EYN870A-PB-1000
Gray	EYN876A-PB-1000
Red	EYN868A-PB-1000
White	EYN874A-PB-1000
Plenum	
Blue	EYN871A-PB-1000
Gray	EYN877A-PB-1000
Red	EYN869A-PB-1000
White	EYN875A-PB-1000

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p. m. and you need help, but your vendor's tech support line is closed.

According to a survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.