

# Category 6 & Category 5e Patch Cables - 568B



Today's advanced networks require high-speed cabling to accurately distribute information. To help enhance the speed in your Ethernet network, try using our CAT6 & CAT5e Patch Cables. These cables accommodate speeds of up to 550 MHz when connected to the appropriate hardware. Each comes UL certified to meet or exceed all specifications, and drastically reduce both impedance and structural return loss (SRL) compared to standard 100 MHz wire! Both our molded and assembled EIA/TIA 568B cables are constructed with high-quality stranded wire, and their shortened body-plug design keeps Near-End Crosstalk (NEXT) levels to a minimum.

## Molded CAT6 Patch Cables

	Gray	Blue	Black	White	Green	Red	Yellow
1ft Molded CAT6	27130	27140	27150	27160	27170	27180	27190
3ft Molded CAT6	27131	27141	27151	27161	27171	27181	27191
7ft Molded CAT6	27132	27142	27152	27162	27172	27182	27192
10ft Molded CAT6	27133	27143	27153	27163	27173	27183	27193
14ft Molded CAT6	27134	27144	27154	27164	27174	27184	27194
25ft Molded CAT6	27135	27145	27155	27165	27175	27185	27195
50ft Molded CAT6	27136	27146	27156	27166	27176	27186	27196
100ft Molded CAT6	27137	27147	27157	27167	27177	27187	27197

## Molded CAT5e Patch Cables

	Gray	Blue	Black	White	Green	Red	Yellow
3ft Molded CAT5e	15177	15178	15180	19479	15179	15223	15221
5ft Molded CAT5e	15187	15188	15189	19477	15185	15190	15191
7ft Molded CAT5e	15192	15193	15196	19478	15194	15197	15198
10ft Molded CAT5e	15199	15200	15202	25428	15201	15203	15204
14ft Molded CAT5e	15205	15206	15208	19529	15207	15224	15210
25ft Molded CAT5e	15211	15212	15222	19520	15207	15224	15210
50ft Molded CAT5e	19305	20037	20038	24046	20036	20088	22142
75ft Molded CAT5e	26970	22146	26971	27094	22147	22122	22148
100ft Molded CAT5e	19329	21471	27096	21472	19387	19386	20579

## Assembled CAT5e Patch Cables - (\*Multi-Packs available)

	Gray	Blue	Black	White	Green	Red	Yellow
3ft Assembled CAT5e	22672*	22673*	22677	23800	22674	22675	22676
5ft Assembled CAT5e	22678	22679	22683	25029	22680	22681	22682
7ft Assembled CAT5e	22684*	22685*	22689	23801	22686	22687	22688
10ft Assembled CAT5e	22690	22691	22695	25414	22692	22693	22694
14ft Assembled CAT5e	22696*	22697*	22701	27093	22698	22699	22700
25ft Assembled CAT5e	22702*	22703*	22707	23803	22704	22705	22706
35ft Assembled CAT5e	25036	24896	25040	27097	25038	25037	25039
50ft Assembled CAT5e	24392	24393	24395	23796	24394	24396	24397
75ft Assembled CAT5e	24398	24399	24401	22160	24400	24402	24403
100ft Assembled CAT5e	24702	22161	26972	23799	22162	26973	22164

## Assembled CAT5e Crossover Cables

	Gray	Blue	Black	Orange	Green	Red	Yellow
3ft CAT5e Crossover	24490	24491	24493	24494	24492	24496	24497
5ft CAT5e Crossover	24498	24499	24501	24502	24500	24503	24504
7ft CAT5e Crossover	24505	24506	24508	24509	24507	24510	24511
10ft CAT5e Crossover	24512	26687	26689	24513	26688	26690	26691
14ft CAT5e Crossover	24638	26701	26703	26704	26702	26706	26707
25ft CAT5e Crossover	24514	25257	26708	24515	26700	26709	26696

## Assembled CAT5e Multi-Packs

	25 Pk - Grey	25 Pk - Blue	50 Pk - Grey	50 Pk - Blue	100 Pk - Grey	100 Pk - Blue
3ft CAT5e Multi-Pack	24343	24348	24344	24349	24345	24350
7ft CAT5e Multi-Pack	24353	24358	24354	24359	24355	24360
14ft CAT5e Multi-Pack	24373	24378	24374	24379	24375	24380
25ft CAT5e Multi-Pack	24383	24388	24384	24389	24385	24390



The basic difference between CAT5 and CAT5e cabling are the tests the cable was verified under. CAT5 and lower category cabling only tested 4 main performance characteristic – frequency, attenuation, impedance & near end cross talk (NEXT). The frequency by which a signal can reliably transmit through a cable was the primary sorting characteristic. For example CAT3 is rated at 16Mhz, CAT4 is rated at 20Mhz, CAT5/5e are BOTH rated at 100Mhz and the proposed CAT6 standard is rated at 250Mhz. The ANSI EIA/TIA standards organizations identified a need for cabling to be able to more reliably transmit signals over copper cabling. With this need in mind, they ‘tweaked’ the CAT5 standard coming up with an enhanced version. The only change to the CAT5 standard was the addition of five new tests. These tests were designed to measure performance characteristics necessary in higher speed applications such as 100Mb, 1Gb and 10Gb Ethernet.

Performance Characteristic Comparison*		by Cables To Go	
	Category 5	Category 5e	Category 6 (Draft 9)
Frequency	100 MHz	100 MHz	250 MHz
Attenuation (Min. at 100 MHz)	22 dB	22 dB	19.8 dB
Characteristic Impedance	100 ohms ± 15%	100 ohms ± 15%	100 ohms ± 15%
NEXT (Min. at 100 MHz)	32 dB	35.3 dB	44.3 dB
PS-NEXT (Min. at 100 MHz)	n/s	32.3 dB	42.3 dB
ELFEXT (Min. at 100 MHz)	n/s	23.8 dB	27.8 dB
PS-ELFEXT (Min. at 100 MHz)	n/s	20.8 dB	24.8 dB
Return Loss (Min. at 100 MHz)	n/s	20.1 dB	20.1 dB
Delay Skew (Max. per 100m)	n/s	45 ns	45 ns

\* Source: <http://www.ul.com/lancable/verification.html>  
n/s - not specified

### Molded vs. Assembled vs. Booted – What’s the Difference?

Cables to Go offers two popular termination types for our premium CAT5e patch cables: *Assembled and Molded*

**Assembled** patch cables have the cable wire stripped back one quarter of an inch, with the connectors crimped onto the wire. While the least intrusive from a size perspective, assembled patch cables do not provide the same strain relief as molded.



**Molded** patch cables have an overmold where the cable wire enters into the connector and the connector is crimped onto the wire. This overmold provides additional strain relief so that the wires will not separate from the connector when under stress. This also helps ensure the cable maintains its twists, which is essential to good communication. Cables To Go also incorporates a boot into the mold so that the cables won’t snap when being installed.



**Booted** patch cables are typically made with an assembled or crimped on connector with a plastic or rubber boot that slides over and surrounds the RJ-45 connector. Cables to Go’s Molded cable uses the overmold to accomplish the function in a more durable design. We find that the boots can create some difficulty when unplugging, as they reduce the positive feel on the latch clip and are not as durable as a molded termination. Cables To Go doesn’t sell booted CAT5e cables. Instead, we offer a molded solution which provides the same functionality.

