

CAT5 and CAT3 25-Pair Telco Connector Cables • CAT3 Octopus Cables (UTP)

**Extend high-density data
or voice circuits quickly and
simply with these cables.**



FEATURES

- » CAT5 cables support high-bandwidth (to 100 MHz), high-speed communications over data and voice circuits (CAT5).
- » CAT3 cables can be used to expand PBXs in voice circuits.
- » Choose from male or female 50-pin telco to blunt-cut open end, male 50-pin telco, or female 50-pin telco terminations.

OVERVIEW

The CAT5 25-Pair Telco Connector Cables support high-speed communication network applications with bandwidths up to 100 MHz, including ANSI ASC X3T12 TP-PMD, ATM, and ISDN.

The CAT5 cables conform to ANSI/TIA/EIA 568-A CAT5 requirements including Power Sum Near-End Crosstalk (PS-NEXT). Underwriters Laboratories (UL®) lists the cables as Communications Cable Type CMR 75C, for installation as general building wiring in accordance with the National Electrical Code (NFPA 70), and has verified them to CAT5.

The cables are also CSA certified as Communications Cable Type PCC 60C FT4 in accordance with the National Building Code of Canada.

The CAT3 cables can be used to expand PBXs in office phone systems.

Each CAT5 or CAT3 cable's core consists of 25 twisted pairs cabled together. Each pair has two 24 AWG copper conductors, twisted together with varying lays to reduce crosstalk.

The PVC cables' jacket material is flame-retardant PVC, and a ripcord is located under the jacket. You can also choose from cables with plenum jacketing.

All cables are terminated with a male or female 50-pin telco connector at one end and your choice of a male 50-pin telco connector, a female 50-pin telco connector, or no termination at all (a blunt-cut open end) on the other end. They are available with AMP or AVAYA style connectors.

TECH SPECS FOR CAT5 25-PAIR TELCO CONNECTOR CABLES

Attenuation — Nominal: 20.2 dB/100 m @ 100 MHz;

Maximum: 22 dB/100 m @ 100 MHz

Cable Type — 25-pair UTP

Conductors — 24 AWG, bare copper, 0.020" nominal diameter

DC Resistance — 9.38 ohms/100 m maximum

Impedance — 100 ± 15 ohms

Insulation — HDPE

Jacket — Gray PVC: 0.032" nominal wall thickness, 0.5" nominal diameter; Ripcord located under jacket

Mutual Capacitance — 5.6 nF/100 m nominal

PS-NEXT — Worst case: 32 dB @ 100 MHz

Standards — TIA/EIA 568-A

Velocity of Propagation — 75% nominal

Connectors — AMP or AVAYA style

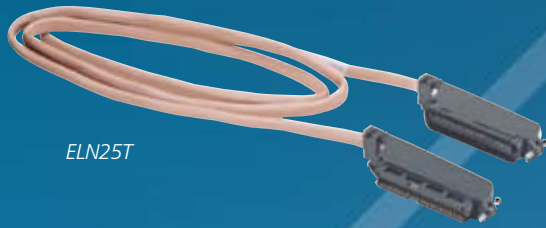
AMP Style

1	2
3	4
6	5
8	7
10	9
11	12
14	15
16	17
18	19
20	21
22	23
24	25
26	27
28	29
30	31
32	33
34	35
36	37
39	40
41	42
43	44
45	46
47	48
49	50
13	38

AVAYA Style

1	26
2	27
3	28
4	29
5	30
6	31
7	32
8	33
9	34
10	35
11	36
12	37
13	38
14	39
15	40
16	41
17	42
18	43
19	44
20	45
21	46
22	47
23	48
24	49
25	50

NOTE: Pairs 13 and 38 are skipped.



ELN25T

Item	Code
CAT5 Telco Connector Cables, 24 AWG, Straight-Wired, PVC, AMP Style	
25-Pair, 50-Pin Telco Male to Open End (Blunt Cut)	
5-ft. (1.5-m)	ELN27T-0005-M
25-ft. (7.6-m)	ELN27T-0025-M
50-ft. (15.2-m)	ELN27T-0050-M
100-ft. (30.4-m)	ELN27T-0100-M
Custom Lengths	ELN27T-M
25-Pair, 50-Pin Telco Male to 50-Pin Telco Male	
5-ft. (1.5-m)	ELN27T-0005-MM
25-ft. (7.6-m)	ELN27T-0025-MM
50-ft. (15.2-m)	ELN27T-0050-MM
100-ft. (30.4-m)	ELN27T-0100-MM
Custom Lengths	ELN27T-MM
25-Pair, 50-Pin Telco Male to 50-Pin Telco Female	
5-ft. (1.5-m)	ELN27T-0005-MF
25-ft. (7.6-m)	ELN27T-0025-MF
50-ft. (15.2-m)	ELN27T-0050-MF
100-ft. (30.4-m)	ELN27T-0100-MF
Custom Lengths	ELN27T-MF
CAT5 Telco Connector Cables, 24 AWG, Straight-Wired, PVC, AVAYA Style	
25-Pair, 50-Pin Telco Male to Open End (Blunt Cut)	
5-ft. (1.5-m)	ELN28T-0005-M
25-ft. (7.6-m)	ELN28T-0025-M
50-ft. (15.2-m)	ELN28T-0050-M
100-ft. (30.4-m)	ELN28T-0100-M
Custom Lengths	ELN28T-M
25-Pair, 50-Pin Telco Male to 50-Pin Telco Male	
5-ft. (1.5-m)	ELN28T-0005-MM
25-ft. (7.6-m)	ELN28T-0025-MM
50-ft. (15.2-m)	ELN28T-0050-MM
100-ft. (30.4-m)	ELN28T-0100-MM
Custom Lengths	ELN28T-MM
25-Pair, 50-Pin Telco Male to 50-Pin Telco Female	
5-ft. (1.5-m)	ELN28T-0005-MF
25-ft. (7.6-m)	ELN28T-0025-MF
50-ft. (15.2-m)	ELN28T-0050-MF
100-ft. (30.4-m)	ELN28T-0100-MF
Custom Lengths	ELN28T-MF
CAT3 Telco Connector Cables, 24 AWG, Straight-Wired, AVAYA Style	
25-Pair, 50-Pin Telco Male to Open End (Blunt Cut)	
PVC	
25-ft. (7.6-m)	ELN25T-0025-M
50-ft. (15.2-m)	ELN25T-0050-M
100-ft. (30.4-m)	ELN25T-0100-M
200-ft. (60.9-m)	ELN25T-0200-M
Custom Lengths	ELN25T-M
Plenum	
Custom Lengths	ELN25TP-M

Item	Code
CAT3 Telco Connector Cables, 24 AWG, Straight-Wired, AVAYA Style (Continued)	
25-Pair, 50-Pin Telco Female to Open End (Blunt Cut)	
PVC	
25-ft. (7.6-m)	ELN25T-0025-F
50-ft. (15.2-m)	ELN25T-0050-F
100-ft. (30.4-m)	ELN25T-0100-F
200-ft. (60.9-m)	ELN25T-0200-F
Custom Lengths	ELN25T-F
Plenum	
Custom Lengths	ELN25TP-F
25-Pair, 50-Pin Telco Male to 50-Pin Telco Female	
PVC	
5-ft. (1.5-m)	ELN25T-0005-MF
25-ft. (7.6-m)	ELN25T-0025-MF
50-ft. (15.2-m)	ELN25T-0050-MF
100-ft. (30.4-m)	ELN25T-0100-MF
200-ft. (60.9-m)	ELN25T-0200-MF
Custom Lengths	ELN25T-MF
Plenum	
Custom Lengths	ELN25TP-MF
25-Pair, 50-Pin Telco Male to 50-Pin Telco Male	
PVC	
5-ft. (1.5-m)	ELN25T-0005-MM
25-ft. (7.6-m)	ELN25T-0025-MM
50-ft. (15.2-m)	ELN25T-0050-MM
100-ft. (30.4-m)	ELN25T-0100-MM
200-ft. (60.9-m)	ELN25T-0200-MM
Custom Lengths	ELN25T-MM
Plenum	
Custom Lengths	ELN25TP-MM
25-Pair, 50-Pin Telco Female to 50-Pin Telco Female	
PVC	
5-ft. (1.5-m)	ELN25T-0005-FF
25-ft. (7.6-m)	ELN25T-0025-FF
50-ft. (15.2-m)	ELN25T-0050-FF
100-ft. (30.4-m)	ELN25T-0100-FF
200-ft. (60.9-m)	ELN25T-0200-FF
Custom Lengths	ELN25T-FF
Plenum	
Custom Lengths	ELN25TP-FF
25-Pair, 50-Pin Telco Male to (2) Open Ends (Blunt Cuts)	
PVC	
25-ft. (7.6-m)	EMN50T-0025-M
50-ft. (15.2-m)	EMN50T-0050-M
100-ft. (30.4-m)	EMN50T-0100-M
200-ft. (60.9-m)	EMN50T-0200-M
25-Pair, 50-Pin Telco Female to (2) Open Ends (Blunt Cuts)	
PVC	
100-ft. (30.4-m)	EMN50T-0100-F
200-ft. (60.9-m)	EMN50T-0200-F



ELN25T

Item	Code
CAT3 Telco Connector Cables, 24 AWG, Straight-Wired, AVAYA Style (Continued)	
50-Pair, (2) 50-Pin Telco Male to (2) 50-Pin Telco Female PVC	
25-ft. (7.6-m)	EMN50T-0025-MF
50-ft. (15.2-m)	EMN50T-0050-MF
100-ft. (30.4-m)	EMN50T-0100-MF
Custom Lengths	EMN50T-MF
50-Pair, (2) 50-Pin Telco Male to (2) 50-Pin Telco Male PVC	
25-ft. (7.6-m)	EMN50T-0025-MM
50-ft. (15.2-m)	EMN50T-0050-MM
200-ft. (60.9-m)	EMN50T-0200-MM
Custom Lengths	EMN50T-MM
CAT5 25-Pair Telco Octopus Cables (UTP), PVC, (1) 180° Rear-Exit	
50-Pin Telco Male to (12) RJ-45, Pins 1-3, 6 Active	
3-ft. (0.9-m)	ELNOCT510-003
6-ft. (1.8-m)	ELNOCT510-006
10-ft. (3.0-m)	ELNOCT510-010
CAT3 25-Pair Telco Octopus Cables (UTP), PVC, 3-ft. (0.9-m)	
(1) 50-Pin Telco Male to (6) RJ-11	
Pins 3-4 Active	ELNOCT310
Pins 2-5 Active	ELNOCT320
Pins 1-6 Active	ELNOCT330
(1) 50-Pin Telco Male to (6) RJ-45	
Pins 1-8 Active	ELNOCT340
(1) 50-Pin Telco Female to (6) RJ-11	
Pins 3-4 Active	ELNOCT350
Pins 2-5 Active	ELNOCT360
Pins 1-6 Active	ELNOCT370
(1) 50-Pin Telco Female to (6) RJ-45	
Pins 1-8 Active	ELNOCT380

NOTE: For Octopus Cable pinning, see blackbox.com.

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

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- 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.