CAT5/CAT5e Shielded and Unshielded Cables

Run lots of CAT5 and CAT5e cable to support different high-speed applications—and know at a glance which cable is for which purpose.

FEATURES

- **Most cable comes in different colors to make it easy to distinguish between different applications and installations.**
- **Both bulk and patch cable are 24 AWG and verified to TIA/EIA-568 specifications.**
- **Shielded twisted-pair cable is great for noisy environments.**
- **All our copper cable is guaranteed for life!**

OVERVIEW

You're getting ready for data rates of 100 Mbps and up. You'll have to install and maybe build what seems like miles of CAT5e and CAT5 cable for each of several systems. And you know what's coming—printing and attaching labels to every cable so people can figure out which cables are carrying what.

Why not reduce the uncertainty (and cut down on the labeling) by using different colors? Unlike labels, the colors provide visual cues for a cable's function all along its length, and they make the cables stand out from others in the same nest or bundle.

The majority of our 4-pair CAT5 and CAT5e solid or stranded cables come in red, blue, yellow, and green in addition to the usual beige. Our CAT5e Bulk Cable meets or exceeds minimum standards for CAT5e (CAT5 plus delay skew, ELFEXT, PS-NEXT, and PS-ELFEXT). It features low attenuation and near-end crosstalk (NEXT) for your applications at 100 MHz and higher.

You can order the solid cables in reels or in handy dispenser boxes. We also offer the plain beige CAT5 bulk cable in custom lengths and in other styles such as 2-pair, shielded, screened, and plenum-rated.

The wire in all these cables is 24 AWG, so the cables are rugged and reliable. They've all been verified for compliance with TIA/EIA specifications for site wiring in Category 5e and Category 5 applications. And, our copper cables are guaranteed for life!

Use the solid patch cables for your longer or higher-speed runs. Because they have lower attenuation than stranded cables, they can safely carry data farther and faster.

And for superior cable in your backbone runs, use our 4-Pair, 24 AWG Solid-Conductor CAT5e Backbone Cable. It offers performance up to 350 MHz—more than triple the verified range of the Category 5 standard!

ADDITIONAL EQUIPMENT YOU MIGHT NEED

- **High-Performance CAT5 Modular Plugs** (our product codes for 25-piece bags: FMTP5U-STR for stranded/unshielded, FMTP5S-STR for stranded/shielded, FMTP5U-SLD for solid/unshielded, FMTP5S-SLD for solid/shielded or solid/screened).
- A **Modular Crimp Tool** (FTM40 for the tool frame, FTM50 for the CAT5 plug die set).
- If you need to run cables across an open floor, color-coded FloorTrak™ cable covers (FK210, FK213, FK310, FK313).
- The modular **SCAN-LAN** test kits for testing and certifying cables for full CAT5e and CAT5 readiness (TS699A and TS6000A, plus multiple modules).
- To secure your grouped cable runs, matching color-coded **One-Wrap® Plus Cable Wraps** (screw-mountable—FT420, FT422, FT424, FT427, FT9422) or **Basic One-Wrap® Cable Wraps** (non-mountable—FT9260, FT261–FT267 for 6" [15.2-cm] versions or FT9120, FT121–FT127 for 12" [30.5-cm] versions).

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.

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TECH SPECS

Bulk Cables:
Attenuation (Worst Pair, per 328.1 ft. [100 m]) —
EYN7xxA, EVNSL7xA:
From 2 dB at 1 MHz to 6.5 dB at 10 MHz to 22 dB at 100 MHz;
EVNSL0xA: From 2.3 dB at 1 MHz to 9.8 dB at 10 MHz to 26.9 dB at 100 MHz;
Compliance —
All cables: TIA/EIA-568 Category 5e or Category 5 (UL® verified for EYN7xxA, ETL verified for EVNSLxxA);
EYN718A: UL®, CUL, NEC type CMP, CSA type PCC FT6;
All except EYN718A: UL®, CUL, NEC type CMR, CSA type PCC FT4
Conductor Material —
EYN7xxA, EVNSL7xA, EYN83xA, EYN84xA, EYN86xA:
Solid copper;
EVNSL0xA: Stranded copper
Diameter —
EVNSL70A: 0.25" (0.64 cm);
EVNSL71A: 0.22" (0.56 cm);
EYN84xA, EYN86xA: 0.19" (0.48 cm);
All others: 0.214" (0.54 cm)
Impedance — 100 ± 15 ohms from 1 to 100 MHz
Jacket — EYN718A, EYN738A, EVNSL71A, EYN86xA:
Plenum-rated FEP Teflon® (CMP/MPP);
All others: PVC (CMR/MPR)

Mutual Capacitance —
EVNSL7xA: 14 pF/ft. (42.7 pF/m) norm., 17 pF/ft. (51.8 pF/m) maximum at 1 kHz and 68°F (20°C);
EVNSL17A: 17 pF/ft. (5.6 pF/100 m) maximum at 1 kHz and 68°F (20°C);
All others: 15 pF/ft. (49.2 pF/m) maximum at 1 MHz
Near-End Crosstalk (Minimum, Worst Pair, per Minute) —
EYN7xxA, EVNSLxxA:
From 62 dB at 1 MHz to 47 dB at 10 MHz to 32 dB at 100 MHz
Number of Conductors —
EYN71xA, EYN83xA:
Four (two pairs);
All others: Eight (four pairs)
Resistance — EYN7xxA:
25 mΩ/ft. (82 mΩ/m);
EVNSL7xA: 28.6 mΩ/ft. (93.8 mΩ/m);
EVNSL0xA: 45 mΩ/ft. (147.6 mΩ/m);
Shielding — EVNSL7xA:
Aluminum/polyester tape, 25% overlap, aluminum side in, plus drain wire;
All others: None
Wire Gauge — 24 AWG

Solid Patch Cables:
Attenuation (Worst Pair, per 328.1 ft. [100 m]) —
From 2 dB at 1 MHz to 6.5 dB at 10 MHz to 22 dB at 100 MHz
Bend Radius — 0.8" (2 cm)
Cable Type — 4-pair solid copper UTP
Compliance —
All cables: TIA/EIA-568B Category 5 (UL verified);
EYN550, EYN556, EYN737, EYN790: UL®, CUL, NEC type CMR;
EYN738, EYN791: UL®, CUL, NEC type CMP
Conductor Gauge — 24 AWG
Conductor Material —
Solid copper
Diameter — 0.214" (0.54 cm)
Impedance — 100 ± 15 ohms from 1 to 100 MHz
Mutual Capacitance —
EYN737, EYN790: 15 pF/ft. (49.2 pF/m) maximum at 1 MHz;
EYN738, EYN791: 14 pF/ft. (45.9 pF/m) maximum at 1 MHz
Near-End Crosstalk (Minimum, Worst Pair, per Minute) —
62 dB at 1 MHz to 47 dB at 10 MHz to 32 dB at 100 MHz
Number of Conductors —
Eight (four pairs)
Pinning — "-MS" cables: Straight through (1 to 1, 2 to 2, etc.);
"-M" cables: Crossed (1 to 3, 2 to 6, 4 to 5, 7 to 8)

Resistance —
EYN550, EYN556, EYN737, EYN790: 25 mΩ/ft. (82 mΩ/m);
EYN738, EYN791: 28.6 mΩ/ft. (93.8 mΩ/m)
Shielding — None
Tensile Strength —
EYN550, EYN556, EYN737, EYN790: 13 lb. (5.9 kg) maximum pulling tension;
EYN738, EYN791: 25 lb. (11.3 kg) maximum pulling tension
Wire Gauge — 24 AWG
Connectors — (2) RJ-45 M (plastic)
PVC (CMR/MPR);
EYN738, EYN791: Plenum-rated FEP Teflon (CMP/MPP)

Category 5e Backbone Cables:
Cable Construction —
EYN795M, EYN795MS, EYN849MS, EYN851M, EYN851MS, EYN853MS, EYN855MS, EYN859MS, EYN801MS–EYN804MS: PVC;
EYN750M, EYN750MS, EYN752MS–EYN754MS, EYN756MS, EYN848MS, EYN850MS, EYN852MS, EYN854MS, EYN858MS: FEP Teflon
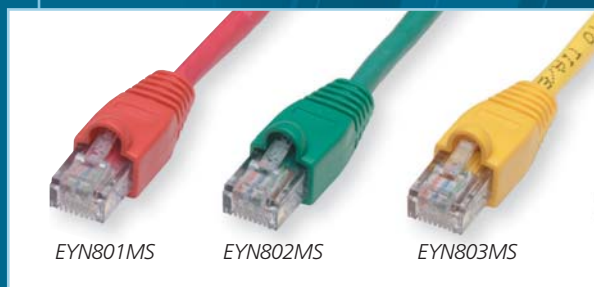**Frequency** — Up to 350 MHz
Impedance —
100 ± 22% at 350 MHz
NEXT — 24 dB min. at 350 MHz
Nominal Capacitance — 14 pF/ft.
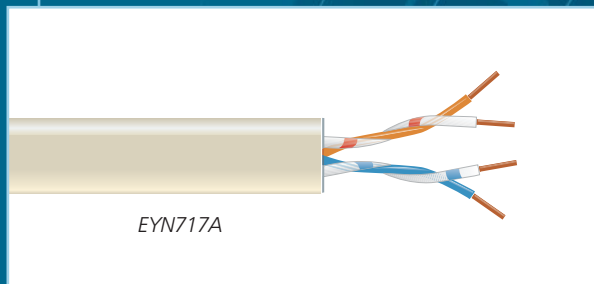**Standards** — TIA/EIA Category 5

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EYN790MS

EYN801MS *EYN802MS* *EYN803MS*

Item	Code
CAT5 Solid-Conductor Cables, 100-MHz, 24 AWG, RJ-45, 4-Pair, T568B	
Beige, PVC, NEC CMR, Straight-Pinned	
2-ft. (0.6-m)	**EYN737MS-0002**
5-ft. (1.5-m)	**EYN737MS-0005**
10-ft. (3.0-m)	**EYN556MS-0010**
15-ft. (4.5-m)	**EYN737MS-0015**
20-ft. (6.0-m)	**EYN556MS-0020**
25-ft. (7.6-m)	**EYN556MS-0025**
30-ft. (9.1-m)	**EYN556MS-0030**
35-ft. (10.6-m)	**EYN556MS-0035**
50-ft. (15.2-m)	**EYN556MS-0050**
100-ft. (30.4-m)	**EYN556MS-0100**
Custom Lengths	**EYN737MS**
Beige, PVC, NEC CMR, Cross-Pinned	
2-ft. (0.6-m)	**EYN737M-0002**
5-ft. (1.5-m)	**EYN737M-0005**
10-ft. (3.0-m)	**EYN556M-0010**
15-ft. (4.5-m)	**EYN737M-0015**
20-ft. (6.0-m)	**EYN556M-0020**
25-ft. (7.6-m)	**EYN737M-0025**
30-ft. (9.1-m)	**EYN556M-0030**
35-ft. (10.6-m)	**EYN556M-0035**
50-ft. (15.2-m)	**EYN556M-0050**
100-ft. (30.4-m)	**EYN556M-0100**
Custom Lengths	**EYN737M**
Beige, Plenum, NEC CMP, Straight-Pinned	
25-ft. (7.6-m)	**EYN738MS-0025**
50-ft. (15.2-m)	**EYN738MS-0050**
100-ft. (30.4-m)	**EYN738MS-0100**
Custom Lengths	**EYN738MS**
Beige, Plenum, NEC CMP, Cross-Pinned	
Custom Lengths	**EYN738M**
Blue, PVC, NEC CMR, Straight-Pinned	
2-ft. (0.6-m)	**EYN550MS-0002**
5-ft. (1.5-m)	**EYN790MS-0005**
10-ft. (3.0-m)	**EYN790MS-0010**
15-ft. (4.5-m)	**EYN790MS-0015**
20-ft. (6.0-m)	**EYN790MS-0020**
25-ft. (7.6-m)	**EYN790MS-0025**
30-ft. (9.1-m)	**EYN550MS-0030**
35-ft. (10.6-m)	**EYN550MS-0035**
50-ft. (15.2-m)	**EYN550MS-0050**
100-ft. (30.4-m)	**EYN550MS-0100**
Custom Lengths	**EYN790MS**
Blue, Plenum, NEC CMP, Straight-Pinned	
25-ft. (7.6-m)	**EYN791MS-0025**
50-ft. (15.2-m)	**EYN791MS-0050**
100-ft. (30.4-m)	**EYN791MS-0100**
Custom Lengths	**EYN791MS**

Item	Code
CAT5e Solid-Conductor Backbone Cables, 350-MHz, 24 AWG, 4-Pair, T568B	
Blue, PVC, NEC CM, Straight-Pinned	
2-ft. (0.6-m)	**EYN851MS-0002**
5-ft. (1.5-m)	**EYN851MS-0005**
10-ft. (3.0-m)	**EYN851MS-0010**
15-ft. (4.5-m)	**EYN851MS-0015**
20-ft. (6.0-m)	**EYN851MS-0020**
25-ft. (7.6-m)	**EYN851MS-0025**
30-ft. (9.1-m)	**EYN795MS-0030**
35-ft. (10.6-m)	**EYN795MS-0035**
50-ft. (15.2-m)	**EYN851MS-0050**
100-ft. (30.4-m)	**EYN795MS-0100**
Custom Lengths	**EYN795MS**
Green, PVC, NEC CM, Straight-Pinned	
2-ft. (0.6-m)	**EYN802MS-0002**
5-ft. (1.5-m)	**EYN802MS-0005**
10-ft. (3.0-m)	**EYN859MS-0010**
15-ft. (4.5-m)	**EYN859MS-0015**
20-ft. (6.0-m)	**EYN859MS-0020**
25-ft. (7.6-m)	**EYN802MS-0025**
30-ft. (9.1-m)	**EYN802MS-0030**
35-ft. (10.6-m)	**EYN859MS-0035**
50-ft. (15.2-m)	**EYN802MS-0050**
100-ft. (30.4-m)	**EYN859MS-0100**
Custom Lengths	**EYN802MS**
Red, PVC, NEC CM, Straight-Pinned	
2-ft. (0.6-m)	**EYN801MS-0002**
5-ft. (1.5-m)	**EYN801MS-0005**
10-ft. (3.0-m)	**EYN849MS-0010**
15-ft. (4.5-m)	**EYN801MS-0015**
20-ft. (6.0-m)	**EYN801MS-0020**
25-ft. (7.6-m)	**EYN801MS-0025**
30-ft. (9.1-m)	**EYN801MS-0030**
35-ft. (10.6-m)	**EYN801MS-0035**
50-ft. (15.2-m)	**EYN801MS-0050**
100-ft. (30.4-m)	**EYN801MS-0100**
Custom Lengths	**EYN801MS**
Yellow, PVC, NEC CM, Straight-Pinned	
2-ft. (0.6-m)	**EYN803MS-0002**
5-ft. (1.5-m)	**EYN803MS-0005**
10-ft. (3.0-m)	**EYN855MS-0010**
15-ft. (4.5-m)	**EYN803MS-0015**
20-ft. (6.0-m)	**EYN803MS-0020**
25-ft. (7.6-m)	**EYN803MS-0025**
30-ft. (9.1-m)	**EYN803MS-0030**
35-ft. (10.6-m)	**EYN855MS-0035**
50-ft. (15.2-m)	**EYN855MS-0050**
100-ft. (30.4-m)	**EYN855MS-0100**
Custom Lengths	**EYN803MS**

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EYN717A

Item	Code
CAT5e Solid-Conductor Backbone Cables, 350-MHz, 24 AWG, 4-Pair, T568B (Continued)	
White, PVC, NEC CMR, Straight-Pinned	
2-ft. (0.6-m)	**EYN804MS-0002**
5-ft. (1.5-m)	**EYN804MS-0005**
10-ft. (3.0-m)	**EYN853MS-0010**
15-ft. (4.5-m)	**EYN853MS-0015**
20-ft. (6.0-m)	**EYN804MS-0020**
25-ft. (7.6-m)	**EYN804MS-0025**
30-ft. (9.1-m)	**EYN804MS-0030**
35-ft. (10.6-m)	**EYN804MS-0035**
50-ft. (15.2-m)	**EYN804MS-0050**
100-ft. (30.4-m)	**EYN804MS-0100**
Custom Lengths	**EYN804MS**
Blue, Plenum, NEC CMP, Straight-Pinned	
2-ft. (0.6-m)	**EYN756MS-0002**
5-ft. (1.5-m)	**EYN850MS-0005**
10-ft. (3.0-m)	**EYN756MS-0010**
15-ft. (4.5-m)	**EYN756MS-0015**
20-ft. (6.0-m)	**EYN756MS-0020**
25-ft. (7.6-m)	**EYN756MS-0025**
30-ft. (9.1-m)	**EYN756MS-0030**
35-ft. (10.6-m)	**EYN756MS-0035**
50-ft. (15.2-m)	**EYN850MS-0050**
100-ft. (30.4-m)	**EYN850MS-0100**
Custom Lengths	**EYN756MS**
Green, Plenum, NEC CMP, Straight-Pinned	
2-ft. (0.6-m)	**EYN858MS-0002**
5-ft. (1.5-m)	**EYN753MS-0005**
10-ft. (3.0-m)	**EYN753MS-0010**
15-ft. (4.5-m)	**EYN858MS-0015**
20-ft. (6.0-m)	**EYN753MS-0020**
25-ft. (7.6-m)	**EYN858MS-0025**
30-ft. (9.1-m)	**EYN753MS-0030**
35-ft. (10.6-m)	**EYN858MS-0035**
50-ft. (15.2-m)	**EYN753MS-0050**
100-ft. (30.4-m)	**EYN753MS-0100**
Custom Lengths	**EYN753MS**
Red, Plenum, NEC CMP, Straight-Pinned	
2-ft. (0.6-m)	**EYN848MS-0002**
5-ft. (1.5-m)	**EYN848MS-0005**
10-ft. (3.0-m)	**EYN848MS-0010**
15-ft. (4.5-m)	**EYN848MS-0015**
20-ft. (6.0-m)	**EYN752MS-0020**
25-ft. (7.6-m)	**EYN752MS-0025**
30-ft. (9.1-m)	**EYN752MS-0030**
35-ft. (10.6-m)	**EYN752MS-0035**
50-ft. (15.2-m)	**EYN752MS-0050**
100-ft. (30.4-m)	**EYN752MS-0100**
Custom Lengths	**EYN752MS**

Item	Code
CAT5e Solid-Conductor Backbone Cables, 350-MHz, 24 AWG, 4-Pair, T568B (Continued)	
Yellow, Plenum, NEC CMP, Straight-Pinned	
2-ft. (0.6-m)	**EYN754MS-0002**
5-ft. (1.5-m)	**EYN854MS-0005**
10-ft. (3.0-m)	**EYN754MS-0010**
15-ft. (4.5-m)	**EYN854MS-0015**
20-ft. (6.0-m)	**EYN754MS-0020**
25-ft. (7.6-m)	**EYN854MS-0025**
30-ft. (9.1-m)	**EYN754MS-0030**
35-ft. (10.6-m)	**EYN754MS-0035**
50-ft. (15.2-m)	**EYN854MS-0050**
100-ft. (30.4-m)	**EYN754MS-0100**
Custom Lengths	**EYN754MS**
White, Plenum, NEC CMP, Straight-Pinned	
2-ft. (0.6-m)	**EYN750MS-0002**
5-ft. (1.5-m)	**EYN750MS-0005**
10-ft. (3.0-m)	**EYN750MS-0010**
15-ft. (4.5-m)	**EYN750MS-0015**
20-ft. (6.0-m)	**EYN750MS-0020**
25-ft. (7.6-m)	**EYN750MS-0025**
30-ft. (9.1-m)	**EYN750MS-0030**
35-ft. (10.6-m)	**EYN750MS-0035**
50-ft. (15.2-m)	**EYN852MS-0050**
100-ft. (30.4-m)	**EYN750MS-0100**
Custom Lengths	**EYN750MS**
Blue, PVC, NEC CM, Cross-Pinned	
2-ft. (0.6-m)	**EYN851M-0002**
5-ft. (1.5-m)	**EYN851M-0005**
10-ft. (3.0-m)	**EYN851M-0010**
15-ft. (4.5-m)	**EYN851M-0015**
20-ft. (6.0-m)	**EYN851M-0020**
25-ft. (7.6-m)	**EYN851M-0025**
50-ft. (15.2-m)	**EYN851M-0050**
100-ft. (30.4-m)	**EYN795M-0100**
Custom Lengths	**EYN795M**
White, Plenum, NEC CMP, Cross-Pinned	
Custom Lengths	**EYN750M**
CAT5 Siamese 100-MHz, Solid Bulk Cables, 4-Pair	
Gray, PVC	
500-ft. (152.4-m)	**EVNSL17A-0500**
Custom Lengths	**EVNSL17A**
CAT5 Unshielded 100-MHz Solid Bulk Cables, 24 AWG, 2-Pair,	
Gray, PVC	
500-ft. (152.4-m)	**EYN717A-0500**
1000-ft. (304.8-m)	**EYN717A-1000**
Custom Lengths	**EYN717A**
Gray, Plenum	
500-ft. (152.4-m)	**EYN718A-0500**
Custom Lengths	**EYN718A**

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Item	Code
CAT5 Unshielded 100-MHz Bulk Cables, 24 AWG, Solid, 4-Pair, 1000-ft. (304.8-m)	
Blue, PVC	
Spool	**EYN842A-1000**
Box	**EYN842A-B**
Gray, PVC	
Spool	**EYN840A-1000**
Box	**EYN840A-B**
White, PVC	
Spool	**EYN841A-1000**
Box	**EYN841A-B**
Blue, Plenum	
Box	**EYN862A-B**
Gray, Plenum	
Box	**EYN860A-B**
White, Plenum	
Spool	**EYN861A-1000**
Box	**EYN861A-B**
CAT5 Unshielded 100-MHz Bulk Cables, 24 AWG, 4-Pair, Stranded	
Red, PVC	
500-ft. (152.4-m)	**EVNSL05A-0500**
1000-ft. (304.8-m)	**EVNSL05A-1000**
Blue, PVC	
1000-ft. (304.8-m)	**EVNSL01A-1000**
Green, PVC	
1000-ft. (304.8-m)	**EVNSL02A-1000**
Red, PVC	
1000-ft. (304.8-m)	**EVNSL03A-1000**
Yellow, PVC	
1000-ft. (304.8-m)	**EVNSL04A-1000**

Item	Code
CAT5 Shielded 100-MHz Bulk Cables, 24 AWG, 4-Pair, Solid, 1000-ft. (304.8-m)	
Beige, PVC	**EVNSL70A-1000**
Beige, Plenum	**EVNSL71A-1000**
CAT5e Shielded 100-MHz Bulk Cables, 24 AWG, 4-Pair, Spool, 1000-ft. (304.8-m), Solid	
Blue, PVC	**EVNSL501A-1000**
Gray, PVC	**EVNSL502A-1000**
Beige, PVC	**EVNSL503A-1000**
Yellow, PVC	**EVNSL504A-1000**
White, PVC	**EVNSL505A-1000**
Blue, Plenum	**EVNSL511A-1000**
Gray, Plenum	**EVNSL512A-1000**
Beige, Plenum	**EVNSL513A-1000**
Yellow, Plenum	**EVNSL514A-1000**
White, Plenum	**EVNSL515A-1000**

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