

Cat 6 Copper: Jumpers & Pull Boxes

Category 6 (250 MHz) · U/UTP · 24 & 28 AWG jumpers · 1,000 ft pull boxes



Shown: 24 AWG snagless jumpers in all nine standard colors.

OVERVIEW

Cat 6 patching and bulk cable from one source

One Optics Cat 6 jumpers are unshielded twisted-pair (U/UTP) patch cords with molded snagless boots that cover the RJ45 latch. They come in two gauges: standard 24 AWG for general patching, and slim 28 AWG for dense panels where airflow and cable bulk matter.

For your own terminations, Cat 6 bulk cable ships in 1,000 ft pull boxes: 24 or 28 AWG stranded for patch-cord assembly, and 23 AWG solid in plenum (CMP) or riser (CMR) for horizontal and backbone runs.

250 MHz

CATEGORY 6
BANDWIDTH

9

JUMPER COLORS

1-25 ft

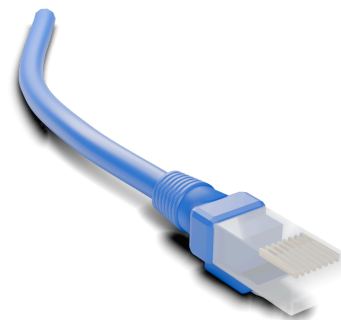
STANDARD JUMPER
LENGTHS

1,000 ft

PULL BOX LENGTH

FEATURES & APPLICATIONS

- ✓ **Category 6** performance to ANSI/TIA-568.2-D, rated to 250 MHz
- ✓ **Snagless boots** guard the latch; gold-plated RJ45 contacts
- ✓ **Two gauges:** 24 AWG standard and 28 AWG slim (up to 15 ft)
- ✓ **24 AWG jumpers** UL listed and ETL verified, each one wiring-tested for opens, shorts and miswires
- ✓ **9 colors** for color-coding; RoHS compliant
- ✓ **Standard lengths** 1 to 25 ft (24 AWG) and 1 to 15 ft (28 AWG); custom lengths in both gauges
- ✓ **1,000 ft pull boxes** that pay out through a front hole
- ✓ **Plenum (CMP) and riser (CMR)** 23 AWG solid bulk cable
- ✓ **Listed bulk cable:** 23 AWG CMP and CMR are UL listed; CMR and 24 AWG stranded are ETL verified
- ✓ **Fits the HDP-RJ45-6** plate in HD1U, HD3U, HD Slim, WMHD2X and WMHD6X



Snagless RJ45 plug. The boot covers the latch so cords pull cleanly out of bundles.

JUMPER SPECIFICATIONS

	24 AWG STANDARD	28 AWG SLIM
Category	Category 6 (250 MHz), ANSI/TIA-568.2-D	
Construction	U/UTP, 4 twisted pairs, stranded bare copper	
Conductor	24 AWG stranded	28 AWG stranded
Jacket OD (nominal)	0.24 in [6.0 mm]	0.15 in [3.8 mm]
Jacket	PVC, in the color of the boot	
Connectors	RJ45 (8P8C) to RJ45, gold-plated contacts, molded snagless boots	
Standard lengths	1–25 ft (12 lengths)	1–15 ft (7 lengths)
Operating temperature	14 to 140 °F	
Environmental	RoHS compliant	
Listings	UL listed · ETL verified	—
Factory testing	100% wiring test: opens, shorts, miswires	—

28 AWG cords are for short patching. Under TIA-568.2-D, 28 AWG cords have more insertion loss than 24 AWG, so keep the 28 AWG cord length in a channel short. One Optics offers 28 AWG cords only up to 15 ft.

STANDARD LENGTHS

24 AWG, FT (LLL)

- 001002003004005006007010012
- 015020025

28 AWG SLIM, FT (LLL)

- 001002003005007010015

Custom lengths are available on request in both 24 AWG and 28 AWG (28 AWG up to 15 ft).

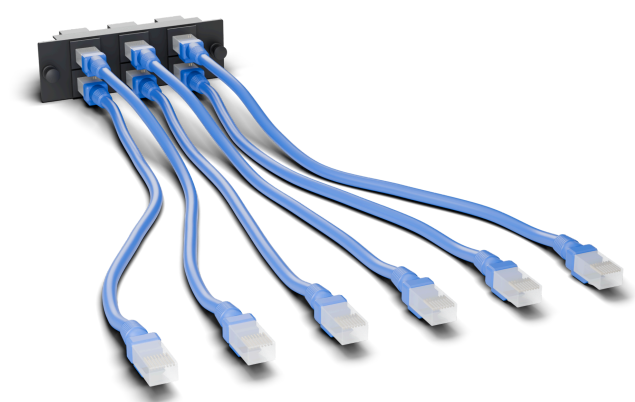
COLORS

BLBKWHGYRDYLGNGOGR

BlueBlackWhiteGrayRedYellowGreenOrangePurple

All nine colors are available in both gauges. The boot matches the jacket color.

PANEL COMPATIBILITY



HDP-RJ45-6 plate with six Cat 6 jumpers plugged in.



Both jumper gauges plug into the HDP-RJ45-6 FHD adaptor plate, which holds six RJ45 ports. Mix copper and fiber plates in the same enclosure.

ENCLOSURE	PLATES	RJ45 PORTS
HDP-RJ45-6 plate	1	6
HD1U rack enclosure	4	24
HD3U rack enclosure	12	72
WMHD2X wall mount	2	12
WMHD6X wall mount	6	36
HD Slim 1U rack enclosure	4	24



PULL BOX SPECIFICATIONS

	24 AWG STRANDED	28 AWG STRANDED	23 AWG SOLID
Category	Category 6 (250 MHz), ANSI/TIA-568.2-D		
Construction	U/UTP, 4 twisted pairs, bare copper		
Use	Patch cords	Slim patch cords	Horizontal and backbone
Jacket rating	CM	CM	CMP or CMR
Jacket OD (nominal)	0.21 in	0.15 in	0.24 in (CMR)
Put-up	1,000 ft pull box with front payout hole		
Colors	Blue, white, gray		
Max. pulling tension	25 lbf		
Environmental	RoHS compliant		
Listings	ETL verified	—	CMP: UL listed CMR: UL listed, ETL verified

Bend radius when installed: at least 4× the cable OD, per TIA-568.2-D. Terminate stranded cable with RJ45 plugs made for stranded conductors.

ORDERING

Jumpers

C6[AWG] -SB- [CC] - [LLL]

EXAMPLE

DESCRIPTION

C624-SB-BL-003	24 AWG, snagless, blue, 3 ft
C624-SB-RD-025	24 AWG, snagless, red, 25 ft
C628-SB-WH-007	28 AWG slim, snagless, white, 7 ft
C628-SB-BK-015	28 AWG slim, snagless, black, 15 ft

Pull boxes

C6[AWG] [S/T] -U- [P/R/M] - [CC] -PB

PART NUMBER

DESCRIPTION

C624T-U-M-CC-PB	24 AWG stranded, CM
C628T-U-M-CC-PB	28 AWG stranded, CM
C623S-U-P-CC-PB	23 AWG solid, plenum (CMP)
C623S-U-R-CC-PB	23 AWG solid, riser (CMR)

PULL BOX PART NUMBERS

CABLE	BLUE	WHITE	GRAY
24 AWG stranded, CM	C624T-U-M-BL-PB	C624T-U-M-WH-PB	C624T-U-M-GY-PB
28 AWG stranded, CM	C628T-U-M-BL-PB	C628T-U-M-WH-PB	C628T-U-M-GY-PB
23 AWG solid, plenum (CMP)	C623S-U-P-BL-PB	C623S-U-P-WH-PB	C623S-U-P-GY-PB
23 AWG solid, riser (CMR)	C623S-U-R-BL-PB	C623S-U-R-WH-PB	C623S-U-R-GY-PB

PART NUMBER KEY

PRODUCT

C6 = Category 6

GAUGE (AWG)

24 = 24 AWG · 28 = 28 AWG slim

23 = 23 AWG (bulk only)

JUMPERS

SB = snagless boot

LLL = length in feet, 3 digits

(003 = 3 ft, 025 = 25 ft)

COLOR (CC)

BL blue · BK black · WH white

GY gray · RD red · YL yellow

GN green · OG orange · PR purple

PULL BOXES

S = solid · T = stranded

U = U/UTP (unshielded)

P = plenum (CMP)

R = riser (CMR)

M = CM

PB = 1,000 ft pull box

Pull box colors: BL, WH, GY

Jumper lengths: 24 AWG 1–25 ft, 28 AWG 1–15 ft. Custom lengths in both gauges: contact sales.

Contact sales for pricing. Test data and certificate of conformance available on request. Specifications subject to change. Rev A · 2026-10.