



Product: [C601108025](#)

Cable Assemblies - CAT6+ Modular Cord, 25ft (7.6 m)

Product Description

CAT6+ Patch Cord, UTP, Bonded-Pair, 4 Pair, 24 AWG Solid, CMR, T568A/B-T568A/B, Gray, 25 ft (7.6 m)

Technical Specifications

Product Overview

Suitable Applications:	IBDN Shielded System 4800, IBDN System 3600, IBDN System 2400, TIA Category 6, ISO Class E, 1000BASE-T, Support Power over Ethernet (up to 100W), Cisco UPOE (up to 60W) and Power over HDBase-T (up to 100W)
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	Solid	BC - Bare Copper	4

Insulation

Material
PO - Polyolefin

Outer Shield

Material
Aluminum

Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Nominal Diameter:	0.225 in
Wiring Scheme:	T568A/B-T568A/B
Packaging:	Individually packaged in a clear plastic bag.

Connectors

Materials

Description	Material	Type
Plug	Polycarbonate	RJ45
Boot	Elastomer	
Front Connection	Phosphor Bronze with 50u inch Gold over Nickel Plating	Blades

Electrical Characteristics

Dielectric Strength:	1,000 V RMS @ 60 Hz for 1 minute
Current Rating:	1.500 A
Insulation Resistance:	500 M-Ohm Minimum
Max Contact Resistance:	20 mOhm
High Frequency Table (Nominal/Typical) Notes:	100 meter Cable Specifications - * TIA/EIA-568.2-D Category 6 Standard----- PSACRF is formally PSELFEXT

Voltage

UL Voltage Rating
300 V RMS

Mated Connection

Frequency (MHz)	Max. Insertion Loss Belden** (dB)	Min. Return Loss Belden** (dB)	Min. Balanced TCL TIA* (dB)	Min. Balanced TCL Belden** (dB)
1 MHz	2 dB	20 dB	40 dB	40 dB
4 MHz	3.7 dB	23 dB	40 dB	40 dB
8 MHz	5.2 dB	24.5 dB	40 dB	40 dB
10 MHz	5.9 dB	25 dB	40 dB	40 dB
16 MHz	7.4 dB	25 dB	38 dB	38 dB
20 MHz	8.3 dB	25 dB	37 dB	37 dB
25 MHz	9.3 dB	24.3 dB	36 dB	36 dB
31.25 MHz	10.4 dB	23.6 dB	35.1 dB	35.1 dB
62.5 MHz	14.9 dB	21.5 dB	32 dB	32 dB
100 MHz	19 dB	20.8 dB	30 dB	30 dB
200 MHz	27.5 dB	18.7 dB	27 dB	27 dB
250 MHz	31 dB	18 dB	26 dB	26 dB
300 MHz	34.2 dB	17.5 dB		

Temperature Range

Installation Temperature Range:	-10°C To +60°C
Storage Temperature Range:	-40°C To +70°C
Operating Temperature Range:	-10°C To +60°C

Mechanical Characteristics

Maximum Recommended Pulling Tension:	11.250 lbs
Min Bend Radius (Overall Cable):	1.040 in
Plug / Jack Compatibility:	RJ45

Termination Interface

Termination	Connection	Durabilities
RJ45	Mated Connection	750 Cycles

Standards

UL Rating:	Riser
TIA/EIA Compliance:	Category 6 - TIA 568-C.2, Class E - ISO/IEC 11801:2002 Ed.2 Amendment 2
Other Standards:	IEC 60603-7, ANSI/TIA 1096-A (formerly FCC Part 68-F)

Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU Directive 2002/95/EC (RoHS):	Yes
MII Order #39 (China RoHS):	EUP 50

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL voltage rating:	300 V RMS
Safety Listing:	c(UL)us Listed

Related Part Numbers

Related Parts:	CAT6+ Modular Jacks, CAT6+ RJ45 Couplers, CAT6+ Coupler Patch Panels
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Product Notes

Notes:	Weight: 0.027 lbs/ft. Cable with EquiBlock™ Barrier Technology
Labeling:	Belden Part Number, Performance Acronym, Wiring Scheme and Cord Length

History

Update and Revision:	Revision Number: 0.8 Revision Date: 02-09-2024
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