

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 Notes:	100 meter Cable Specifications - * TIA/EIA-568.2-D Category 6 Standard

Voltage

UL Voltage Rating
300 V RMS

Mated Connection

Frequency (MHz)	Max. Insertion Loss Belden** (dB)	Min. Return Loss Belden** (dB)	Min. PSANEXT TIA* (dB)	Min. PSANEXT Belden** (dB)	Min. PSAACRF TIA* (dB)	Min. PSAACRF Belden** (dB)	Min. Balanced TCL TIA* (dB)	Min. Balanced TCL Belden** (dB)
1 MHz	2.4 dB	20 dB	67 dB	87 dB	67 dB	75 dB	40 dB	48 dB
4 MHz	4.5 dB	23 dB	67 dB	87 dB	66.2 dB	75 dB	40 dB	48 dB
8 MHz	6.3 dB	24.5 dB	67 dB	87 dB	60.1 dB	75 dB	40 dB	48 dB
10 MHz	7 dB	25 dB	67 dB	87 dB	58.2 dB	75 dB	40 dB	48 dB
16 MHz	8.9 dB	25 dB	67 dB	87 dB	54.1 dB	70.9 dB	38 dB	46 dB
20 MHz	10 dB	25 dB	67 dB	87 dB	52.2 dB	69 dB	37 dB	45 dB
25 MHz	11.1 dB	25 dB	67 dB	87 dB	50.2 dB	67 dB	36 dB	44 dB
31.25 MHz	12.5 dB	25 dB	67 dB	87 dB	48.3 dB	65.1 dB	35.1 dB	43.1 dB
62.5 MHz	17.9 dB	25 dB	65.6 dB	85.6 dB	42.3 dB	59.1 dB	32 dB	40 dB
100 MHz	22.8 dB	25 dB	62.5 dB	82.5 dB	38.2 dB	55 dB	30 dB	38 dB
200 MHz	33 dB	21 dB	58 dB	78 dB	32.2 dB	49 dB	27 dB	35 dB
250 MHz	37.2 dB	20.5 dB	56.5 dB	76.5 dB	30.2 dB	47 dB	26 dB	34 dB
300 MHz	41 dB	20.1 dB	55.3 dB	75.3 dB	28.7 dB	43.8 dB	25.2 dB	33.2 dB
400 MHz	48 dB	19.5 dB	53.5 dB	73.5 dB	26.2 dB	38.8 dB	24 dB	32 dB
500 MHz	54.3 dB	18.4 dB	52 dB	72 dB	24.2 dB	35 dB	23 dB	31 dB
625 MHz	61.5 dB	17.4 dB		65 dB		31.1 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 6A - ISO/IEC 11801-1, TIA 568.2-D
IEEE Compliance:	IEEE 802.3at type 1 and 2 (PoE) up to 30W, IEEE 802.3bt type 3 and 4 (PoE) up to 100W, CISCO (UPOE) up to 60W, Power over HDBaseTTM (POH) up to 100W
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
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Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

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

Related Part Numbers

Related Parts:	10GX Modular Jacks, 10GX Patch Panels
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Product Notes

Notes:	Weight: 0.029 lbs/ft. Cable with EquiBlock™ Barrier Technology
Labeling:	Labeling: Belden Part Number, Performance Acronym, Wiring Scheme and Cord Length

History

Update and Revision:	Revision Number: 0.12 Revision Date: 01-14-2026
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