

10GX63F Multi-Conductor - Enhanced Category 6A F/UTP Bonded-Pair Cable



For more Information
please call

1-800-Belden1



General Description:

CAT6A (625MHz), 4-Bonded-Pair, F/UTP-Foil Shielded, Plenum-CMP, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, FEP Insulation, Patented X-Spline, Inner Jacket, Overall Foil Screen with Drain Wire, Ripcord, Flamarrest® Jacket

Usage (Overall)

Suitable Applications: Premise Horizontal Cable, 10 Gigabit Ethernet, 100Base TX, 100Base VG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio AES51, RS-422, Noisy Environments, PoE, PoE+

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	23	Solid	BC - Bare Copper

Total Number of Conductors: 8

Insulation

Insulation Material:

Insulation Material
FEP

Inner Jacket

Inner Jacket Material:

Inner Jacket Material
PVC

Inner Jacket Ripcord: Yes

Outer Shield

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
26	Solid	Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
Flamarrest (R) PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.295

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Separator Material: Patented X-Spline Center Member

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Mechanical Characteristics (Overall)

Storage Temperature Range: -20°C To +80°C

Installation Temperature Range: +5°C To +50°C

Operating Temperature Range: -10°C To +75°C

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Bulk Cable Weight:	45 lbs/1000 ft.
Max. Recommended Pulling Tension:	45 lbs.
Min. Bend Radius/Minor Axis:	1.200 in.
Min. Bend/Installation:	3 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	03/07/2011
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	Category 6A - TIA 568.C.2
ANSI Specification:	ANSI/TIA 568-C.2 Category 6A

Applicable Patents:

Country
www.belden.com/p

Flame Test

UL Flame Test:	NFPA 262 Plenum Flame Test (UL910)(FT6)
C(UL) Flame Test:	FT6
CSA Flame Test:	FT6

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Burial:	No
Sunlight Resistance:	No
Non-halogenated:	No

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	10GX62F

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
17.000

Maximum Capacitance Unbalance (pF/100 m):	90
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Nominal Velocity of Propagation:

VP (%)
64.000

Maximum Delay:

Delay (ns/100 m)
538 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)
45.000

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
8.200

Max. Operating Voltage - UL:

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Voltage
300 V RMS

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.100	73.3	71.2	20.000
4	3.800	64.3	60.5	23.000
8	5.300	59.8	54.4	24.500
10	5.900	58.3	52.4	25.000
16	7.500	55.2	47.8	25.000
20	8.400	53.8	45.5	25.000
25	9.400	52.3	43.0	25.000
31.25	10.500	50.9	40.4	25.000
62.5	15.000	46.4	31.4	25.000
100	19.100	43.3	24.2	25.000
200	27.600	38.8	11.2	18.000
250	31.100	37.3	6.3	17.300
300	34.300	36.1	1.9	16.800
350	37.200	35.1	-2.1	16.300
400	40.100	34.3	N/A	15.900
450	42.700	33.5	N/A	15.530
500	45.300	32.8	N/A	15.200
550	47.700	30.2	N/A	14.920
600	50.100	29.6	N/A	14.700
625	51.200	29.4	N/A	14.500

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
1	100 ± 15	105 ± 10	70.8	68.8
4	100 ± 15	100 ± 15	58.8	56.8
8	100 ± 15	100 ± 15	52.7	50.7
10	100 ± 15	100 ± 15	50.8	48.8
16	100 ± 15	100 ± 15	46.7	44.7
20	100 ± 15	100 ± 15	44.8	42.8
25	100 ± 15	100 ± 15	42.8	40.8
31.25	100 ± 15	100 ± 10	40.9	38.9
62.5	100 ± 15	100 ± 10	34.9	32.9
100	100 ± 15	100 ± 10	30.8	28.8
200	100 ± 22	100 ± 10	24.8	22.8
250	100 ± 32	100 ± 10	22.8	20.8
300	100 ± 32	100 ± 10	21.3	19.3
350	100 ± 32	100 ± 10	19.9	17.9
400	100 ± 32	100 ± 10	18.8	16.8
450	100 ± 32	100 ± 10	17.7	15.7
500	100 ± 32	100 ± 10	16.8	14.8
625	100 ± 32	100 ± 10	14.9	12.9

Premise Cable Electrical Table 4:

Frequency (MHz)	Min. PSANEXT (dB)	Min. PSAACRF (dB)	Min. TCL (dB)	Min. ELTCTL (dB)
1.000	67.000	81.000	40.000	35.000
4.000	67.000	81.200	40.000	23.000
8.000	67.000	75.100	40.000	16.900
10.000	67.000	73.200	40.000	15.000
16.000	67.000	69.100	38.000	10.900
20.000	67.000	67.200	37.000	9.000
25.000	67.000	65.200	36.000	7.000
31.250	67.000	63.300	35.100	
62.500	67.000	57.300	32.000	
100.000	63.500	53.200	30.000	
200.000	60.600	47.200	27.000	
250.000	59.000	45.200	26.000	
300.000	56.300	43.700	25.300	
350.000	55.300	42.300	24.600	
400.000	54.500	41.200	24.000	
450.000	53.700	40.100	23.500	
500.000	53.000	39.200	23.000	
550.000	52.400	38.400		

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600.000	51.800	37.600		
625.000	51.600	37.300		

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party channel verified to TIA/EIA-568-C.2, Category 6a.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
10GX63F D151000	1,000 FT	48.000 LB	BLUE		CAT6A 4PRB F/UTP CMP REEL
10GX63F 0021000	1,000 FT	48.000 LB	RED		CAT6A 4PRB F/UTP CMP REEL
10GX63F 0041000	1,000 FT	48.000 LB	YELLOW		CAT6A 4PRB F/UTP CMP REEL
10GX63F 0081000	1,000 FT	48.000 LB	GRAY	C	CAT6A 4PRB F/UTP CMP REEL
10GX63F 0091000	1,000 FT	48.000 LB	WHITE		CAT6A 4PRB F/UTP CMP REEL
10GX63F 0101000	1,000 FT	48.000 LB	BLACK		CAT6A 4PRB F/UTP CMP REEL
10GX63F 010500	500 FT	26.500 LB	BLACK		CAT6A 4PRB F/UTP CMP REEL

Notes:

C = CRATE REEL PUT-UP.

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