ENGLISH MEASUREMENT VERSION



2413F Multi-Conductor - Category 6 Nonbonded-Pair ScTP Cable



For more Information please call

1-800-Belden1



Description:

23 AWG Solid Bare Copper Conductors, FEP Insulation, Polyester Separator, Overall Beldfoil Shield (100% coverage) with Drain Wire, Flamearrest® Jacket with Ripcord.

Usage (Overall)

Suitable Applications:

Networking Horizontal Cable, 1000Base-T (Gigabit Ethernet), 100Base-T (Fast Ethernet), 10Base-T (Ethernet), 100BaseVG, ANYLAN, 155ATM, 622ATM, ANSI.X3.263 FDDI TP-PMD, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, Noisy Environments, 250 MHz Category 6

Physical Characteristics (Overall)

Conductor

AWG:

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

Insulation

Insulation Material:

Insulation Material			
FEP - Fluorinated	Ethylene Propyle		

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	Solid	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name		Outer Jacket Material	
	Flamearrest(®	LS PVC - Low Smoke Polyvinyl Chloride	

Outer Jacket Diameter:

Nom.	Dia.	(in.)
0.285		

Outer Jacket Ripcord:

Overall Cable

Overall Cabling Fillers:	Central Cross Web
Overall Cabling Separator Material:	Polyester
Overall Nominal Diameter:	0.285 in.

Yes

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue Stripe and Blue
2	White/Orange Stripe and Orange
3	White/Green Stripe and Green





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4 White/Brown Stripe and Brown

lechanical Characteristics (Overall)	
Storage Temperature Range:	-20°C To +75°C
Installation Temperature Range:	+5°C To +50°C
Operating Temperature Range:	-20°C To +75°C
Bulk Cable Weight:	49 lbs/1000 ft.
Max. Recommended Pulling Tension:	25 lbs.
Min. Bend Radius (Install)/Minor Axis:	3 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	12/09/2011
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 6 - TIA 568.C.2
Other Specification:	UL Verified to Category 6

Applicable Patents:

Country	Patent
US	6074503
US	7663061

Flame Test

UL Flame Test:	NFPA 262 Plenum Flame Test (UL910)(FT6)
C(UL) Flame Test:	FT6
CSA Flame Test:	FT6
anum/Non Planum	

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	2412F

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft) 14.000

Maximum Capacitance Unbalance:

Capacitance (pF/ft) 66.000

Nominal Velocity of Propagation:

VP (%) 72.000

Maximum Delay:





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Delay (ns/100 m) 537.000

Max. Delay Skew:

Delay Skew (ns/ft) 30.000

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m) 8.200

Max. Operating Voltage - UL:

Voltage 300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%) 3.000

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
0.772	1.800	77.0	75.0	75.2	74.2	
1	2.000	75.3	73.3	73.3	72.3	20.000
4	3.700	66.3	64.3	62.6	61.6	23.000
8	5.200	63.3	61.3	58.1	57.1	24.500
10	5.800	61.8	59.8	56.0	55.0	25.000
16	7.400	58.6	56.6	51.2	50.2	25.000
20	8.300	57.1	55.1	48.8	47.8	25.000
25	9.300	55.5	53.5	46.3	45.2	24.300
31.25	10.400	54.0	52.0	43.6	42.6	23.600
62.5	15.000	49.1	47.1	34.1	33.1	21.500
100	19.300	45.8	43.8	26.5	25.5	20.800
200	28.300	40.9	38.9	12.6	11.6	18.700
250	32.100	39.3	37.3	7.2	6.2	18.000
300	35.600	38.1	36.1	2.5	1.5	17.500
350	38.900	37.1	35.1			17.000
400	42.000	36.3	34.3			16.600
450	45.000	35.5	33.5			16.200
500	47.900	34.8	32.8			15.900
550	50.600	34.2	32.2			15.600

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
0.772	100 ± 15	100 ± 15	73.0	70.0
1	100 ± 15	100 ± 15	70.8	67.8
4	100 ± 15	100 ± 15	58.8	55.8
8	100 ± 15	100 ± 15	52.7	49.7
10	100 ± 15	100 ± 15	50.8	47.8
16	100 ± 15	100 ± 15	46.7	43.7
20	100 ± 15	100 ± 15	44.8	41.8
25	100 ± 15	100 ± 15	42.8	39.8
31.25	100 ± 15	100 ± 15	40.9	37.9
62.5	100 ± 15	100 ± 15	34.9	31.9
100	100 ± 15	100 ± 15	30.8	27.8
200	100 ± 22	100 ± 15	24.8	21.8
250	100 ± 32	100 ± 15	22.8	19.8
300	100 ± 32	100 ± 15	21.3	18.3
350	100 ± 32	100 ± 15	19.9	16.9
400	100 ± 32	100 ± 15	18.8	15.8
450	100 ± 32	100 ± 15	17.7	14.7
500	100 ± 32	100 ± 15	16.8	13.8







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550 100 ± 32 100 ± 15 16.0 13.0

Premise Cable Electrical Table 4:

Frequency (MHz)	Min. TCL (dB)	Min. ELTCTL (dB)
1.000	40.000	35.000
4.000	40.000	23.000
8.000	40.000	17.000
10.000	40.000	15.000
16.000	38.000	10.900
20.000	37.000	9.000
25.000	36.000	7.100
31.250	35.100	5.100
62.500	32.000	
100.000	30.000	
200.000	27.000	
250.000	26.000	

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals Third party Verified to ANSI/TIA-568-C.2, Category 6. Values above 350 MHz are for Engineering Information Only.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item# Putup Ship Weight Color Notes Item Desc

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