

1351A Multi-Conductor - Category 6 Nonbonded-Pair ScTP Cable



For more Information
please call

1-800-Belden1



General Description:

CAT6 (350MHz), 4-Pair, F/UTP-Foil Shielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin and FEP Insulation, Polyester Separator, Overall Beldfoil Shield, PVC Jacket

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
3 x PO - Polyolefin
1 x FEP - Fluorinated Ethylene Propylene

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	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 Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.290

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Fillers: Patented Central Cross Web

Overall Cabling Separator Material: Polyester

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
4	White/Brown Stripe and Brown

Mechanical Characteristics (Overall)

Storage Temperature Range: -20°C To +75°C

Installation Temperature Range: 0°C To +60°C

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 44 lbs/1000 ft.

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Max. Recommended Pulling Tension:	25 lbs.
Min. Bend Radius/Minor Axis:	3 in.
Min. Bend/Installation:	3 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR, UL444
CEC/C(UL) Specification:	CMR
EU Directive 2011/65/EU (ROHS II):	Yes
Other Standards:	ISO/IEC 11801 ed 2.1 (2008) Class E
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):	05/24/2007
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

Applicable Patents:

Country
www.belden.com/p

Flame Test

UL Flame Test:	UL1666 Vertical Riser
C(UL) Flame Test:	FT4
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1352A

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
14.000

Maximum Capacitance Unbalance:

Capacitance (pF/ft)
66.000

Nominal Velocity of Propagation:

VP (%)
68.000

Maximum Delay:

Description	Delay (ns/100 m)
@ 100 MHz	537.000

Max. Delay Skew:

Delay Skew (ns/100 m)
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

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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)
1	2.000	74.3	72.3	72.3	70.3	20.000
4	3.800	65.3	63.3	61.5	59.5	23.000
8	5.300	60.8	58.8	55.5	53.5	24.500
10	6.000	59.3	57.3	53.3	51.3	25.000
16	7.600	56.2	54.3	48.6	46.6	25.000
20	8.500	54.8	52.8	46.3	44.3	25.000
25	9.500	53.3	51.3	43.8	41.8	24.300
31.25	10.700	51.9	49.9	41.2	39.2	23.600
62.5	15.400	47.4	45.4	32.0	30.0	21.500
100	19.800	44.3	42.3	24.5	22.5	20.100
155	25.200	41.5	39.5	16.2	14.2	18.800
200	29.000	39.8	37.8	10.8	8.8	18.000
250	32.800	38.3	36.3	5.5	3.5	17.300
300	36.400	37.1	35.1	0.7		16.800
350	39.800	36.1	34.1			16.300
400	43.000	35.3	33.3			16.000
500	48.900	33.8	31.8			15.200
650	57.200	32.1	30.1			14.400

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	70.0	68.0
4	100 ± 15	100 ± 15	58.0	56.0
8	100 ± 15	100 ± 15	51.9	49.9
10	100 ± 15	100 ± 15	50.0	48.0
16	100 ± 15	100 ± 15	45.9	43.9
20	100 ± 15	100 ± 15	44.0	42.0
25	100 ± 15	100 ± 15	42.0	40.0
31.25	100 ± 15	100 ± 15	40.1	38.1
62.5	100 ± 15	100 ± 15	34.1	32.1
100	100 ± 15	100 ± 15	30.0	28.0
155	100 ± 22	100 ± 15	26.2	24.2
200	100 ± 22	100 ± 15	24.0	22.0
250	100 ± 32	100 ± 15	22.0	20.0
300	100 ± 32	100 ± 15	20.5	18.5
350	100 ± 32	100 ± 15	19.1	17.1
400			18.0	16.0
500			16.0	14.0

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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1351A 0041000	1,000 FT	45.000 LB	YELLOW	C	CAT6 4PR F/UTP CMR REEL
1351A 0061000	1,000 FT	45.000 LB	BLUE, LIGHT	C	CAT6 4PR F/UTP CMR REEL
1351A 0081000	1,000 FT	45.000 LB	GRAY	C	CAT6 4PR F/UTP CMR REEL
1351A 0091000	1,000 FT	45.000 LB	WHITE	C	CAT6 4PR F/UTP CMR REEL

Notes:
C = CRATE REEL PUT-UP.

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