



1352A

Part Number: 1352A

Category 6 Nonbonded-Pair ScTP Cable

Product Description

CAT6 (250MHz), 4-Pair, F/UTP-Foil Shielded, Plenum-CMP, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, FEP Insulation, Polyester Separator, Overall Beldfoil Shield, Flamearrest® Jacket.

Product Specifications

Technical Specifications

Product Description

Application

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

Classification

Construction and Dimensions

Conductor:

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

Conductor

Total Number of Conductors:

8

Insulation:

Material

FEP - Fluorinated Ethylene Propylene

Insulation

Color Chart 1:

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

InnerShield

Cabling¹

Outersheild 1:

Type	Material	Material Trade Name	Coverage	Drainwire Material	Drainwire AWG	Drainwire Construction
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	24	Solid mm

Outerjacket 1:

Material	Material Trade Name	Nominal Diameter	Ripcord	Separator Material
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.285 mm	Yes	Polyester Tape

OuterJacket1

OuterJacket2

Part Number

Static Ground

Tracer

Electrical Characteristics

Conductor DCR:

Max. Conductor DCR	Max. DCR Unbalance
8.2 Ohm/100m	3 %

Capacitance:

Max. Capacitance Unbalanced	Nominal Mutual Capacitance
66 pF/m	14 pF/ft

General Electrical Parameters**Delay:**

Max. Delay Skew	Nominal Velocity of Propagation (VP)
30 ns/100m	72 ns/100m

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT	Min. PSNEXT	Min. ACR	Min. PSACR	Min. ACRF (ELFEXT)	Min. PSACRF (PSELFEXT)	Min. RL (Return Loss)	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2 db/100m	74.3 dB	72.3 dB	72.3 dB	70.3 dB	70 dB	68 dB	20 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	3.8 db/100m	65.3 dB	63.3 dB	61.5 dB	59.5 dB	58 dB	56 dB	23 dB	100 ± 15 Ohm	100 ± 15 Ohm
8 MHz	5.3 db/100m	60.8 dB	58.8 dB	55.5 dB	53.5 dB	51.9 dB	49.9 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
10 MHz	6 db/100m	59.3 dB	57.3 dB	53.3 dB	51.3 dB	50 dB	48 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
16 MHz	7.6 db/100m	56.2 dB	54.3 dB	48.6 dB	46.6 dB	45.9 dB	43.9 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
20 MHz	8.5 db/100m	54.8 dB	52.8 dB	46.3 dB	44.3 dB	44 dB	42 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
25 MHz	9.5 db/100m	53.3 dB	51.3 dB	43.8 dB	41.8 dB	42 dB	40 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm
31.25 MHz	10.7 db/100m	51.9 dB	49.9 dB	41.2 dB	39.2 dB	40.1 dB	38.1 dB	23.6 dB	100 ± 15 Ohm	100 ± 15 Ohm
62.5 MHz	15.4 db/100m	47.4 dB	45.4 dB	32 dB	30 dB	34.1 dB	32.1 dB	21.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
100 MHz	19.8 db/100m	44.3 dB	42.3 dB	24.5 dB	22.5 dB	30 dB	28 dB	20.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
155 MHz	25.2 db/100m	41.5 dB	39.5 dB	16.2 dB	14.2 dB	26.2 dB	24.2 dB	18.8 dB	100 ± 22 Ohm	100 ± 15 Ohm

200 MHz	29 db/100m	39.8 dB	37.8 dB	10.8 dB	8.8 dB	24 dB	22 dB	18 dB	100 ± 22 Ohm	100 ± 15 Ohm
250 MHz	32.8 db/100m	38.3 dB	36.3 dB	5.5 dB	3.5 dB	22 dB	20 dB	17.3 dB	100 ± 32 Ohm	100 ± 15 Ohm
300 MHz	36.4 db/100m	37.1 dB	35.1 dB	0.7 dB		20.5 dB	18.5 dB	16.8 dB	100 ± 32 Ohm	100 ± 15 Ohm
350 MHz	39.8 db/100m	36.1 dB	34.1 dB			19.1 dB	17.1 dB	16.3 dB	100 ± 32 Ohm	100 ± 15 Ohm
400 MHz	43 db/100m	35.3 dB	33.3 dB			18 dB	16 dB	16 dB		
500 MHz	48.9 db/100m	33.8 dB	31.8 dB			16 dB	14 dB	15.2 dB		
650 MHz	57.2 db/100m	32.1 dB	30.1 dB					14.4 dB		

Voltage:

UL Voltage Rating

300V RMS

Coupling Attenuation

Screening

Transfer Impedance

Use

Max Recommended Pulling Tension:	25 lbs
----------------------------------	--------

Material

Safety

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

Temperature Range

Installation Temp Range:	+5°C To +50 °C
Operating Temp Range:	-20°C To +75°C

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

Mechanical Characteristics

Bend Radius

Min Bend Radius/Minor Axis:	1 in
Min Bend Radius/Installation:	3 in

Crush Resistance

Connectors

Stripping Performance

EU Directive

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	1351A

Applicable Patents

Country:	US
Patent:	7663061

Standards

Telecommunications Standards:	ANSI/TIA/EIA 568 C.2 Category 6
CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMP
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CMP
Other Specification:	UL Verified to Category 6

Contact Information

PHONE_NUM:	1-800-Belden1
-------------------	---------------

History

Usage

Put Ups and Colors

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.
---------------	--

© 2015 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.