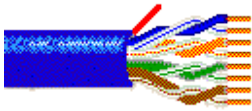


1585A Multi-Conductor - Category 5e Unbonded-Pair Cable



For more Information
please call

1-800-Belden1



Description:

24 AWG solid bare copper conductors, Dual FRPO/FEP insulation, Flamarrest® jacket with ripcord, sequential footage marking every two feet.

Usage (Overall)

Suitable Applications: Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Insulation

Insulation Material:

Insulation Material
FRPO/FEP - Flame Retardant Polyolefin/Fluorinated Ethylene Propylene

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

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

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.198 in.

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)

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

Bulk Cable Weight: 24.400 lbs/1000 ft.

Max. Recommended Pulling Tension: 35 lbs.

Min. Bend Radius (Install)/Minor Axis: 0.500 in.



1585A Multi-Conductor - Category 5e Unbonded-Pair Cable

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP, UL444
CEC/C(UL) Specification:	CMP
Other Standards:	11801 Category 5
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):	01/01/2005
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:	568-B.2 Category 5e
Other Specification:	NEMA WC-63.1 Category 5e, ETL Verified to Category 5e

Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT4, FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	1583A, 1583R

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15

Nominal Velocity of Propagation:

VP (%)
72

Maximum Capacitance Unbalance (pF/100 m): 330

Maximum Delay:

Delay (ns/100 m)
538 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)
45

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9.38

Max. Operating Voltage - UL:

Voltage
300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
3



1585A Multi-Conductor - Category 5e Unbonded-Pair Cable

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)	Min. SRL (dB)
1	2.0	65.3	62.3	63.0	60.3	20.0	23.0
4	4.1	56.3	53.3	51.0	49.2	23.0	23.0
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5
10	6.5	50.3	47.3	43.0	40.8	25.0	25.0
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3
31.25	11.7	42.9	39.9	31.0	28.2	23.6	23.6
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5
100	22.0	35.3	32.3	14.0	10.3	20.1	20.1
155	28.1	32.5	29.5	4.4	1.4	15.8	
200	32.0	30.8	27.8	4.0	1.0	15.0	

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	63.8	60.8
4	100 ± 15	100 ± 15	51.7	48.7
8	100 ± 15	100 ± 15	45.7	42.7
10	100 ± 15	100 ± 15	43.8	40.8
16	100 ± 15	100 ± 15	39.7	36.7
20	100 ± 15	100 ± 15	37.7	34.7
25	100 ± 15	100 ± 15	35.8	32.8
31.25	100 ± 15	100 ± 15	33.9	30.9
62.5	100 ± 15	100 ± 15	27.8	24.9
100	100 ± 15	100 ± 15	23.8	20.8
155	100 ± 25	100 ± 15	19.9	16.9
200	100 ± 25	100 ± 15	17.7	14.7



Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1585A D15U1000	1,000 FT	3.000 LB	BLUE		4 PR #24 FRPO/FEP FLMRST
1585A D15I1000	1,000 FT	23.000 LB	BLUE	C	4 PR #24 FRPO/FEP FLMRST
1585A D153000	3,000 FT	66.000 LB	BLUE	C	4 PR #24 FRPO/FEP FLMRST
1585A 002U1000	1,000 FT	23.000 LB	RED		4 PR #24 FRPO/FEP FLMRST
1585A 002I1000	1,000 FT	23.000 LB	RED	C	4 PR #24 FRPO/FEP FLMRST
1585A 003U1000	1,000 FT	23.000 LB	ORANGE		4 PR #24 FRPO/FEP FLMRST
1585A 003I1000	1,000 FT	4.000 LB	ORANGE	C	4 PR #24 FRPO/FEP FLMRST
1585A 004U1000	1,000 FT	23.000 LB	YELLOW		4 PR #24 FRPO/FEP FLMRST
1585A 004I1000	1,000 FT	24.000 LB	YELLOW	C	4 PR #24 FRPO/FEP FLMRST
1585A 005U1000	1,000 FT	23.000 LB	GREEN, DARK		4 PR #24 FRPO/FEP FLMRST
1585A 005I1000	1,000 FT	23.000 LB	GREEN, DARK	C	4 PR #24 FRPO/FEP FLMRST
1585A 008U1000	1,000 FT	23.000 LB	GRAY		4 PR #24 FRPO/FEP FLMRST
1585A 008I1000	1,000 FT	23.000 LB	GRAY	C	4 PR #24 FRPO/FEP FLMRST
1585A 009U1000	1,000 FT	3.000 LB	WHITE		4 PR #24 FRPO/FEP FLMRST
1585A 009I1000	1,000 FT	4.000 LB	WHITE	C	4 PR #24 FRPO/FEP FLMRST
1585A 010U1000	1,000 FT	23.000 LB	BLACK		4 PR #24 FRPO/FEP FLMRST
1585A 010I1000	1,000 FT	23.000 LB	BLACK	C	4 PR #24 FRPO/FEP FLMRST
1585A 012U1000	1,000 FT	23.000 LB	PINK		4 PR #24 FRPO/FEP FLMRST
1585A 012I1000	1,000 FT	23.000 LB	PINK	C	4 PR #24 FRPO/FEP FLMRST
1585A 877U1000	1,000 FT	23.000 LB	NATURAL		4 PR #24 FRPO/FEP FLMRST
1585A 877I1000	1,000 FT	23.000 LB	NATURAL	C	4 PR #24 FRPO/FEP FLMRST

Notes:

1585A Multi-Conductor - Category 5e Unbonded-Pair Cable

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 10-14-2008

© 2008 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.

