

1583ANH Multi-Conductor - Category 5e Nonbonded-Pair Cable



For more Information
please call

1-800-Belden1

General Description:

CAT5e (200MHz), 4-Pair, U/UTP-Unshielded, Zero Halogen, Premise Horizontal Cable, 4 Pair UTP, 24 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Ripcord, LSZH jacket.

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, 200MHz Category 5e, Vertical Tray Rated

Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors:

8

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Haloarrest®	LSNH - Low Smoke Non-Halogen

Outer Jacket Diameter:

Nom. Dia. (mm)
4.953

Outer Jacket Ripcord:

Yes

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 35.717 Kg/Km

Max. Recommended Pulling Tension: 177.928 N

Min. Bend Radius/Minor Axis: 20.320 mm

Min. Bend/Installation: 49.530 mm

1583ANH Multi-Conductor - Category 5e Nonbonded-Pair Cable

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II):	Yes
Other Standards:	ISO/IEC 11801 ed 2.1 (2008) Class D
Telecommunications Standards:	Category 5e - TIA 568.C.2
Other Specification:	NEMA WC-63.1 Category 5e

Flame Test

IEC Flame Test:	60332-1
-----------------	---------

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)	49.215
--------------------	--------

Maximum Capacitance Unbalance (pF/100 m):	330
---	-----

Nominal Velocity of Propagation:

VP (%)	70
--------	----

Maximum Delay:

Delay (ns/100 m)	510 @ 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
--------------------------	---

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	60.0	20.0	23.0
4	4.1	56.3	53.3	51.0	49.0	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	41.0	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	28.0	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	11.0	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)
-------------	------------------------------	------------------	------------------	--------------------

1583ANH Multi-Conductor - Category 5e Nonbonded-Pair Cable

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	24.8
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: Values above 100 MHz are for engineering purposes only.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1583ANH F6H1000	305 MT	9.525 KG	GRAY, DARK PEARL	C	CAT5E 4PR U/UTP LSZH REEL

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 12-09-2013

© 2013 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.