

ENGLISH MEASUREMENT VERSION

## 1533R Multi-Conductor - Category 5e Nonbonded-Pair Cable



For more Information please call

1-800-Belden1



### **General Description:**

CAT5e (100MHz), 4-Pair, F/UTP-Foil shielded, Riser-CMR, Premise Horizontal Cable, 24 AWG solid bare copper conductors, polyolefin insulation, overall Beldfoil® shield,PVC jacket, RJ-45 compatible

sage (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, Noisy Environments, 100MHz Category 5e
hysical 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 Trade Name Type Outer Shield Mate	rial Coverage (%)
Beldfoil® Tape Aluminum Foil-Poly	
Outer Shield Drain Wire AWG:	
AWG Stranding Drain Wire Conductor Material	
24   7x32   TC - Tinned Copper	
Outer Jacket	
Outer Jacket Material Outer Jacket Material	
PVC - Polyvinyl Chloride	
Outer Jacket Diameter:	
Nom. Dia. (in.)	
0.260	
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	
lechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +75°C
Bulk Cable Weight:	30 lbs/1000 ft.
Max. Recommended Pulling Tension:	25 lbs.
Min. Bend Radius/Minor Axis:	1.100 in.
Min. Bend/Installation:	2.600 in.
Applicable Specifications and Agency Com	pliance (Overall)
Applicable Standards & Environmental Program	
NEC/(UL) Specification:	CMR, UL444
NEO(OE) Opecification.	

# **Detailed Specifications & Technical Data**



## ENGLISH MEASUREMENT VERSION

## 1533R Multi-Conductor - Category 5e Nonbonded-Pair Cable

EU Directive 2011/65/EU (ROHS II):	Yes
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):	01/01/2004
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
Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e
Flame Test	
UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No
Suitability - Burial:	No
Sunlight Resistance:	No
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	1533P
Electrical Characteristics (Overall) Nom. Mutual Capacitance: Capacitance (pF/ft) 15	
Maximum Capacitance Unbalance (pF/100 m):	330
Nominal Velocity of Propagation: VP (%) 70 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	
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	60.3	60.3	20.0	23.0
4	4.1	56.3	53.3	49.2	49.2	23.0	23.0
8	5.8	51.8	48.8	43.0	43.0	24.5	24.5
10	6.5	50.3	47.3	40.8	40.8	25.0	25.0
16	8.2	47.3	44.3	36.0	36.0	25.0	25.0
20	9.3	45.8	42.8	33.5	33.5	25.0	25.0
25	10.4	44.3	41.3	30.9	30.9	24.3	24.3

# **Detailed Specifications & Technical Data**



### ENGLISH MEASUREMENT VERSION

### 1533R Multi-Conductor - Category 5e Nonbonded-Pair Cable

31.25	11.7	42.9	39.9	28.2	28.2	23.6	23.6
62.5	17.0	38.4	35.4	18.4	18.4	21.5	21.5
100	22.0	35.3	32.3	10.3	10.3	20.1	20.1

#### 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	24.8
100	100 ± 15	100 ± 15	23.8	20.8

#### Notes (Overall)

Notes: Shield is bonded to jacket inner wall for electrical stability. RJ-45 Compatible. 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
1533R F2VA1000	1,000 FT	35.000 LB	GRAY, DEC		CAT5E 4PR F/UTP CMR RIB
1533R F2V1000	1,000 FT	34.000 LB	GRAY, DEC	С	CAT5E 4PR F/UTP CMR REEL
1533R F2V1640	1,640 FT	57.400 LB	GRAY, DEC	С	CAT5E 4PR F/UTP CMR REEL
1533R 002A1000	1,000 FT	35.000 LB	RED	С	CAT5E 4PR F/UTP CMR RIB
1533R 0021000	1,000 FT	34.000 LB	RED	С	CAT5E 4PR F/UTP CMR REEL
1533R 003A1000	1,000 FT	35.000 LB	ORANGE	С	CAT5E 4PR F/UTP CMR RIB
1533R 0031000	1,000 FT	34.000 LB	ORANGE	С	CAT5E 4PR F/UTP CMR REEL
1533R 004A1000	1,000 FT	35.000 LB	YELLOW	С	CAT5E 4PR F/UTP CMR RIB
1533R 0041000	1,000 FT	34.000 LB	YELLOW	С	CAT5E 4PR F/UTP CMR REEL
1533R 005A1000	1,000 FT	35.000 LB	GREEN, DARK	С	CAT5E 4PR F/UTP CMR RIB
1533R 0051000	1,000 FT	34.000 LB	GREEN, DARK	С	CAT5E 4PR F/UTP CMR REEL
1533R 006A1000	1,000 FT	35.000 LB	BLUE, LIGHT		CAT5E 4PR F/UTP CMR RIB
1533R 0061000	1,000 FT	34.000 LB	BLUE, LIGHT	С	CAT5E 4PR F/UTP CMR REEL
1533R 010A1000	1,000 FT	35.000 LB	BLACK		CAT5E 4PR F/UTP CMR RIB
1533R 0101000	1,000 FT	34.000 LB	BLACK	С	CAT5E 4PR F/UTP CMR REEL

Notes: C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 07-27-2016

# © 2017 Belden, Inc All Rights Reserved.

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, and belief at the date of its publication. The information provided in 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. product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).