METRIC MEASUREMENT VERSION



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



For more Information please call

1-800-Belden1



Description:

24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, overall Beldfoil® shield drain wire, RJ-45 compatible, see color code chart (below), PVC jacket (red, orange, yellow, green, blue or gray).

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, Noisy Environments, 100MHz Category 5e

Physical Characteristics (Overall)

Conductor

AWG:

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

Insulation

Insulation Material:

Insulation Material PO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

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

Overall Cabling

Overall Nominal Diameter: 6.604 mm

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

Me	lechanical Characteristics (Overall)					
	Operating Temperature Range:	-20°C To +75°C				
	Bulk Cable Weight:	44.646 Kg/Km				
	Max. Recommended Pulling Tension:	111.205 N				
	Min. Bend Radius (Install)/Minor Axis:	25.400 mm				

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Applicable Specifications and Agency Compliance (Overall)					
Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CMR, UL444				
CEC/C(UL) Specification:	CMR				
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):	01/01/2004				
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				
Telecommunications Standards:	568-B.2 Category 5e				
Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e				
Flame Test					
UL Flame Test:	UL1666 Riser				
CSA Flame Test:	FT4				
Plenum/Non-Plenum					
Plenum (Y/N):	No				
Plenum Number:	1533P				

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) 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 (%)

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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)	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
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	305 MT	15.876 KG	GRAY, DEC		4 PR #24 PP FS PVC
1533R F2V1000	305 MT	15.422 KG	GRAY, DEC	С	4 PR #24 PP FS PVC
1533R F2V1640	500 MT	26.036 KG	GRAY, DEC	С	4 PR #24 PP FS PVC
1533R 002A1000	305 MT	16.783 KG	RED	С	4 PR #24 PP FS PVC
1533R 0021000	305 MT	15.422 KG	RED	С	4 PR #24 PP FS PVC
1533R 003A1000	305 MT	15.876 KG	ORANGE	С	4 PR #24 PP FS PVC
1533R 0031000	305 MT	15.422 KG	ORANGE	С	4 PR #24 PP FS PVC
1533R 004A1000	305 MT	15.876 KG	YELLOW	С	4 PR #24 PP FS PVC
1533R 0041000	305 MT	15.422 KG	YELLOW	С	4 PR #24 PP FS PVC
1533R 005A1000	305 MT	15.876 KG	GREEN, DARK	С	4 PR #24 PP FS PVC
1533R 0051000	305 MT	15.422 KG	GREEN, DARK	С	4 PR #24 PP FS PVC
1533R 006A1000	305 MT	15.876 KG	BLUE, LIGHT		4 PR #24 PP FS PVC
1533R 0061000	305 MT	15.422 KG	BLUE, LIGHT	С	4 PR #24 PP FS PVC
1533R 010A1000	305 MT	15.876 KG	BLACK		4 PR #24 PP FS PVC
1533R 0101000	305 MT	15.422 KG	BLACK	С	4 PR #24 PP FS PVC

Notes:

C = CRATE REEL PUT-UP.

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