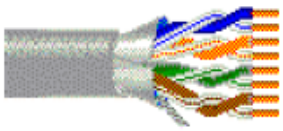
Detailed Specifications & Technical Data

1533RAS Paired - Category 5e Unbonded - Pair Cable



For more information please call 1-800-Belden1

See Put-ups and Colors

Related Documents: No.8 for Data Twist Cables (Modified Western Electric).pdf

Description:

24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, foil shield, drain wire, ripcord, see color code chart (below), LSNH jacket (blue, gray).

SUITABLE APPLICATIONS:

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:

CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	Solid
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	PO – Polyolefin
Pair Color Code Chart:	

Pair Number	Insulation Color	
	Wire 1	Wire 2
1	Blue	White with Blue Stripe
2	Orange	White with Orange Stripe
3	Green	White with Green Stripe
4	Brown	White with Brown Stripe

OUTER SHIELD:

Outer Shield Type	Tape
Outer Shield Material	Aluminum Foil – Polyester Tape
Outer Shield %Coverage	100 %

OUTER SHIELD DRAIN WIRE:

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Outer Shield Drain Wire Nom. Diameter	7×32AWG
Outer Shield Drain Wire Conductor Material	TC – Tinned Copper
OUTER JACKET:	
Outer Jacket Material	LSNH – Low Smoke Non-Halogen
Outer Jacket Ripcord	Yes
OVERALL NOMINAL DIAMETER:	
Overall Nominal Diameter	6.60 mm
MECHNICAL CHARACTERISTICS:	
Operating Temperature Range	- 20℃ To + 75℃
Bulk Cable Weight	46 kg/km
Max. Recommended Pulling Tension	110 N
Min. Bend Radius (Install)	26.4 mm
APPLICABLE SPECIFICATION AGENCY COMPLIANCE:	
APPLICABLE STANDARDS:	
NEC/(UL) Specification	UL444
IEC Specification	11801 Category 5e
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Dec 2007
TIA/EIA Specification	568-B.2 Category 5e
Other Specification	NEMA WC-63.1 Category 5e
FLAME TEST:	
IEC Flame Test	60332-1 Flammability
SUITABILITY:	
Suitability – Indoor (Y/N)	Y
Suitability - Outdoor (Y/N)	N
Sunlight Resistance (Y/N)	N
Oil Resistance	N
Non-halogenated	Y
PLENUM/NON-PLENUM:	
Plenum (Y/N)	N
ELECTRICAL CHARACTERISTICS:	
Nom. Mutual Capacitance @ 1 KHz	5.6 nF/100m
Maximum Capacitance Unbalance	330 pF/100m
Nominal Velocity of Propagation	70 %
Maximum Delay @ 100 MHz	538 ns/100m

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Maximum Delay Skew	45 ns/100m
Maximum Conductor DC Resistance @ 20 Deg.C	9.38 Ohms/100m
Maximum DCR Unbalance @ 20 Deg.C	5 %
Max. Operating Voltage - UL	300 V RMS

ELECTRICAL CHARACTERISTICS - PREMISES:

Premise Cable Electricals Table 1:

Frequency (MHz)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min. Return Loss (dB)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	2.0	65.3	62.3	63.3	60.3	20.0	63.8	60.8
4	4.1	56.3	53.3	52.2	49.2	23.0	51.7	48.7
8	5.8	51.8	48.8	46.0	43.0	24.5	45.7	42.7
10	6.5	50.3	47.3	43.8	40.8	25.0	43.8	40.8
16	8.2	47.3	44.3	39.0	36.0	25.0	39.7	36.7
20	9.3	45.8	42.8	36.5	33.5	25.0	37.7	34.7
25	10.4	44.3	41.3	33.9	30.9	24.3	35.8	32.8
31.25	11.7	42.9	39.9	31.2	28.2	23.6	33.9	30.9
62.5	17.0	38.4	35.4	21.4	18.4	21.5	27.8	24.9
100	22.0	35.3	32.3	13.3	10.3	20.1	23.8	20.8

NOTES:

Notes	Jacket sequentially metre marked.

PUT-UPS AND COLORS:

Item	Description	Put-Up(metre)	Ship Weight(kg)	Jacket Color
1533RAS 006305M	4 PR #24 PO LSNH	305	15.4	BLUE
1533RAS 008305M	4 PR #24 PO LSNH	305	15.4	GRAY

Revision Number: 1 Revision Date: 6/9/2011

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(Directive 2003/11/EC, 6-Feb2003). 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 the 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.