Detailed Specifications & Technical Data

7814ANH Paired - Category 6 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, central spline, rip cord, see color code chart (below), LSNH jacket (blue or grey).

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, 250MHz Category 6

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

OVERALL CABLING:

Overall Cabling Fillers	Central Spline

OUTER SHIELD:

Outer Shield Material	Unshielded

7814ANH Paired - Category 6 Unbonded - Pair Cable

OUTER JACKET:	
Outer Jacket Material	LSNH – Low Smoke Non-Halogen
Outer Jacket Ripcord	Yes
OVERALL NOMINAL DIAMETER:	
Overall Nominal Diameter	5.8 mm
MECHNICAL CHARACTERISTICS:	
Operating Temperature Range	- 20℃ To + 75℃
Bulk Cable Weight	60 kg/km
Max. Recommended Pulling Tension	150 N
Min. Bend Radius (Install)	12.7 mm
APPLICABLE SPECIFICATION AGENCY COMPLIANCE:	
APPLICABLE STANDARDS:	
NEC/(UL) Specification	UL 444
IEC Specification	11801 Category 6
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Oct 2007
TIA Specification	568-C.2 Category 6
Other Specification	NEMA WC-63.1 Category 6
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
Maximum Delay Skew	45 ns/100m
Maximum Conductor DC Resistance @ 20 Deg.C	9.38 Ohms/100m

7814ANH Paired - Category 6 Unbonded - Pair Cable

Maximum DCR Unbalance @ 20 Deg.C	5 %
Maximum Intended Operating Voltage	80 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	74.3	72.3	72.3	70.3	20.0	67.8	64.8
4	3.8	65.3	63.3	61.5	59.5	23.0	55.8	52.8
8	5.3	60.8	58.8	55.4	53.4	24.5	49.7	46.7
10	6.0	59.3	57.3	53.3	51.3	25.0	47.8	44.8
16	7.6	56.2	54.2	48.7	46.7	25.0	43.7	40.7
20	8.5	54.8	52.8	46.3	44.3	25.0	41.8	38.8
25	9.5	53.3	51.3	43.8	41.8	24.3	39.8	36.8
31.25	10.7	51.9	49.9	41.2	39.2	23.6	37.9	34.9
62.5	15.4	47.4	45.4	32.0	30.0	21.5	31.9	28.9
100	19.8	44.3	42.3	24.5	22.5	20.1	27.8	24.8
155	25.2	41.4	39.4	16.3	14.3	18.8	24.0	21.0
200	29.0	39.8	37.8	10.8	8.8	18.0	21.8	18.8
250	32.8	38.3	36.3	5.5	3.5	17.3	19.8	16.8

NOTES:

Notes	Jacket sequentially marked.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color
7814ANH 006A1000	4 PR #24 PO LSNH	A1000	34	BLU
7814ANH 008A1000	4 PR #24 PO LSNH	A1000	34	GRY

Revision Number: 4 Revision Date: 6/4/2014

7814ANH Paired - Category 6 Unbonded - Pair Cable

27-Jan2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (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.