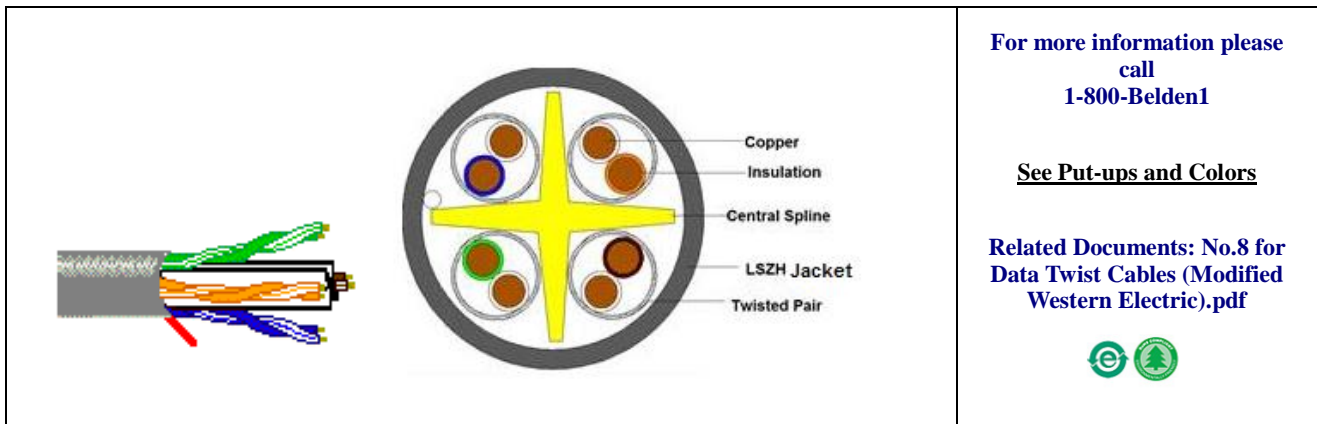


## 7814ANH - Belden Category 6 UTP Cable



**Description:**

24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, central spline, rip cord, see color code chart (below), LSNH jacket.

**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
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**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
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**OUTER SHIELD:**

Outer Shield Material	Unshielded
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**OUTER JACKET:**

Outer Jacket Material	LSNH – Low Smoke Non-Halogen
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## 7814ANH - Belden Category 6 UTP Cable

Outer Jacket Ripcord	Yes
<b>OVERALL NOMINAL DIAMETER:</b>	
Overall Nominal Diameter	5.8 mm
<b>MECHANICAL CHARACTERISTICS:</b>	
Operating Temperature Range	- 20°C To + 75°C
Bulk Cable Weight	40.5 kg/km
Max. Recommended Pulling Tension	110 N
Min. Bend Radius (Install)	23.2 mm
<b>APPLICABLE SPECIFICATION AGENCY COMPLIANCE:</b>	
<b>APPLICABLE STANDARDS:</b>	
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
<b>FLAME TEST:</b>	
IEC Flame Test	60332-1 Flammability
<b>OTHER PROPERTIES:</b>	
Halogen Content as per IEC 60754-1	≤ 5 mg/g
Acid Gas Emission pH as per IEC 60754-2	>4.3
Acid Gas Emission Conductivity as per IEC 60754-2	< 10 μs/mm
Smoke Density as per IEC 61034-2	≥ 60% Light Transmittance
<b>SUITABILITY:</b>	
Suitability – Indoor (Y/N)	Y
Suitability - Outdoor (Y/N)	N
Non-halogenated	Y
<b>PLENUM/NON-PLENUM:</b>	
Plenum (Y/N)	N
<b>ELECTRICAL CHARACTERISTICS:</b>	
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
Nominal Conductor DC Resistance @ 20 Deg.C	7.5 Ohms/100m

## 7814ANH - Belden Category 6 UTP Cable

Maximum DCR Unbalance @ 20 Deg.C	5 %
Characteristic Impedance	100 ± 15 Ohms
Maximum Intended Operating Voltage	80 V RMS

### ELECTRICAL CHARACTERISTICS - PREMISES:

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PSNEXT (dB)		Return Loss (dB)		ELFEXT (dB)		PSELFEXT (dB)	
	Max.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical
1	2.0	1.8	74.3	95	72.3	93	20.0	35	67.8	87	64.8	82
4	3.8	3.5	65.3	92	63.3	90	23.0	36	55.8	82	52.8	75
8	5.3	5.0	60.8	90	58.8	88	24.5	36	49.7	77	46.7	69
10	6.0	5.6	59.3	90	57.3	88	25.0	33	47.8	74	44.8	67
16	7.6	7.2	56.2	83	54.2	81	25.0	34	43.7	68	40.7	63
20	8.5	8.0	54.8	80	52.8	78	25.0	33	41.8	67	38.8	61
25	9.5	9.0	53.3	76	51.3	74	24.3	33	39.8	73	36.8	61
31.25	10.7	10.0	51.9	70	49.9	68	23.6	32	37.9	64	34.9	57
62.5	15.4	14.5	47.4	68	45.4	66	21.5	31	31.9	57	28.9	49
100	19.8	18.5	44.3	65	42.3	63	20.1	30	27.8	53	24.8	47
155	25.2	24.0	41.4	68	39.4	66	18.8	31	24.0	48	21.0	41
200	29.0	26.8	39.8	65	37.8	63	18.0	22	21.8	43	18.8	38
250	32.8	30.2	38.3	60	36.3	59	17.3	23	19.8	43	16.8	36

Frequency (MHz)	ACR (dB)		PSACR (dB)	
	Min.	Typical	Min.	Typical
1	72.3	93.3	70.3	91.3
4	61.5	88.8	59.5	86.8
8	55.4	85.2	53.4	83.2
10	53.3	84.4	51.3	82.4
16	48.7	75.8	46.7	73.8
20	46.3	72.0	44.3	70.0
25	43.8	67.0	41.8	65.0
31.25	41.2	59.8	39.2	57.8
62.5	32.0	53.4	30.0	51.4
100	24.5	46.2	22.5	44.2
155	16.3	44.0	14.3	42.0
200	10.8	37.6	8.8	35.6
250	5.5	29.0	3.5	28.0

### NOTES:

Notes	Jacket sequentially marked. Typical Values are for reference only.
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**7814ANH - Belden Category 6 UTP Cable**

**PUT-UPS AND COLORS:**

Item	Description	Put-Up	Ship Weight (lbs.)	Jacket Color
7814ANH 002A1000	4 PR #24 PO LSNH	1000ft	27.3	RED
7814ANH 003A1000	4 PR #24 PO LSNH	1000ft	27.3	ORG
7814ANH 004A1000	4 PR #24 PO LSNH	1000ft	27.3	YEL
7814ANH 005A1000	4 PR #24 PO LSNH	1000ft	27.3	GRN
7814ANH 006A1000	4 PR #24 PO LSNH	1000ft	27.3	BLU
7814ANH 007A1000	4 PR #24 PO LSNH	1000ft	27.3	VIO
7814ANH 008A1000	4 PR #24 PO LSNH	1000ft	27.3	GRY
7814ANH 010A1000	4 PR #24 PO LSNH	1000ft	27.3	BLK
7814ANH 002A305M	4 PR #24 PO LSNH	305m	27.3	RED
7814ANH 003A305M	4 PR #24 PO LSNH	305m	27.3	ORG
7814ANH 004A305M	4 PR #24 PO LSNH	305m	27.3	YEL
7814ANH 005A305M	4 PR #24 PO LSNH	305m	27.3	GRN
7814ANH 006A305M	4 PR #24 PO LSNH	305m	27.3	BLU
7814ANH 007A305M	4 PR #24 PO LSNH	305m	27.3	VIO
7814ANH 008A305M	4 PR #24 PO LSNH	305m	27.3	GRY
7814ANH 010A305M	4 PR #24 PO LSNH	305m	27.3	BLK

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