

## 7834ANC

## Category 6 UTP Halogen Free Cable

		<p>For more information please call 1-800-Belden1</p>
		<p><u>See Put-ups and Colors</u></p>
		<p><b>Related Documents: No.8 for Data Twist Cables (Modified Western Electric).pdf</b></p>

### Description:

23 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, central spline, rip cord, see color code chart (below), LSZH 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
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### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	23
Stranding	Solid
Conductor Material	BC - Bare Copper

#### INSULATION:

Insulation Material	PO - Polyolefin
Insulation Nominal Diameter	1.0 mm
Pair Color Code Chart:	

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

### 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	LSZH – Low Smoke Zero Halogen
Outer Jacket Ripcord	Yes

### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	5.8 mm
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### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	- 20°C To + 75°C
Bulk Cable Nominal Weight	38 kg/km
Max. Recommended Pulling Tension	110 N
Min. Bend Radius (Install)	28.4 mm

### APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

IEC Specification	11801 Category 6
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Sept 2007
TIA Specification	568-C.2 Category 6
Other Specification	NEMA WC-63.1 Category 6

#### FLAME TEST:

IEC Flame Test	IEC 60332-3-22
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#### SUITABILITY:

Suitability – Indoor (Y/N)	Y
Non-halogenated	Y

#### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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#### ELECTRICAL CHARACTERISTICS:

Nom. Mutual Capacitance @ 1 KHz	5.6 nF/100m
Maximum Capacitance Unbalance	330 pF/100m
Nominal Velocity of Propagation	65 %
Maximum Delay @ 100 MHz	538 ns/100m
Maximum Delay Skew	45 ns/100m
Maximum Conductor DC Resistance @ 20 Deg.C	9.38 Ohms/100m
Maximum DCR Unbalance @ 20 Deg.C	5 %
Characteristic Impedance	100 ± 15 Ohms
Intended Operating Voltage	80 V RMS

#### OTHER PROPERTIES:

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Halogen Content per IEC 60754-1	≤ 5 mg/g
Acid Gas Emission pH per IEC 60754-2	≥ 4.3
Acid Gas Emission Conductivity per IEC 60754-2	≤ 10 μs/mm
Smoke Density as per IEC 61034-2	≥ 60% Light Transmittance

### ELECTRICAL CHARACTERISTICS - PREMISES:

Premise Cable Electricals Table 1:

Frequency (MHz)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. Return Loss (dB)	TCL	ELTCTL	Min. ACRF (dB)	Min. PSACRF (dB)
4	3.8	66.3	63.3	23.0	40	23	56.0	53.0
10	6.0	60.3	57.3	25.0	40	15	48.0	45.0
16	7.6	57.2	54.2	25.0	38	10.9	43.9	40.9
20	8.5	55.8	52.8	25.0	37	9	42.0	39.0
31.25	10.7	52.9	49.9	23.6	35.1	5.1	38.1	35.1
62.5	15.5	48.4	45.4	21.5	32	/	32.1	29.1
100	19.9	45.3	42.3	20.1	30	/	28.0	25.0
150	24.8	42.7	39.7	18.9	/	/	24.5	21.5
200	29.1	40.8	37.8	18.0	27	/	22.0	19.0
250	33	39.3	36.3	17.3	26	/	20.0	17.0

### NOTES:

Notes

Jacket sequentially marked

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (kgs.)	Jacket Color
7834ANC 006U1000	4PR23 PO LSZH CAT6 UTP	1000	11.8	BLU
7834ANC 008U1000	4PR23 PO LSZH CAT6 UTP	1000	11.8	GRY

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