

7815A Paired - Category 6 Unbonded - Pair Cable

 	<p style="text-align: center;">For more information please call 1-800-Belden1</p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p> <p style="text-align: center;">Related Documents: No.8 for Data Twist Cables (Modified Western Electric).pdf</p>
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Description:

24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, central spline, foil shield, drain wire, rip cord, see color code chart (below), PVC 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 Marks
2	Orange	White with Orange Marks
3	Green	White with Green Marks
4	Brown	White with Brown Marks

OVERALL CABLING:

Overall Cabling Fillers	Central Spline
Overall Cabling Core Wrap	Polyester Tape

OUTER SHIELD:

Outer Shield Type	Tape
Outer Shield Material	Aluminum Foil – Polyester Tape

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Outer Shield %Coverage	100 %
OUTER SHIELD DRAIN WIRE:	
Outer Shield Drain Wire Nom. Diameter	0.40 mm
Outer Shield Drain Wire Conductor Material	TC – Tinned Copper
OUTER JACKET:	
Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	Yes
OVERALL NOMINAL DIAMETER:	
Overall Nominal Diameter	7.1 mm
MECHANICAL CHARACTERISTICS:	
Operating Temperature Range	- 20 To + 75
Bulk Cable Weight	49 kg/km
Max. Recommended Pulling Tension	110 N
Min. Bend Radius (Install)	56.8 mm
APPLICABLE SPECIFICATION AGENCY COMPLIANCE:	
APPLICABLE STANDARDS:	
NEC/(UL) Specification	CM
NEC Articles	800
CEC/C(UL) Specification	CM
IEC Specification	11801 Category 6
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Sept 2007
TIA/EIA Specification	568-B.2 Category 6
FLAME TEST:	
UL Flame Test	UL1685 UL Loading
SUITABILITY:	
Suitability – Indoor (Y/N)	Y
Suitability - Outdoor (Y/N)	N
Sunlight Resistance (Y/N)	N
Oil Resistance	N
Non-halogenated	N
PLENUM/NON-PLENUM:	
Plenum (Y/N)	N
ELECTRICAL CHARACTERISTICS:	
Nom. Mutual Capacitance @ 1 KHz	5.6 nF/100m

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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 %
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	55.5	53.5	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	48.6	46.6	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
150	24.7	41.7	39.7	17	15	18.9	24.3	21.3
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.
Attenuation value at 1 MHz is for reference purposes only.

Attenuation

PUT-UPS AND COLORS:

Item	Description	Put-Up (mtr.)	Ship Weight (lbs.)	Jacket Color
7815A 002305M	4 PR #24 PO PVC	305M	30	RED
7815A 003305M	4 PR #24 PO PVC	305M	30	ORG
7815A 004305M	4 PR #24 PO PVC	305M	30	YEL
7815A 005305M	4 PR #24 PO PVC	305M	30	GRN
7815A 006305M	4 PR #24 PO PVC	305M	30	BLU
7815A 008305M	4 PR #24 PO PVC	305M	30	GRY
7815A 009305M	4 PR #24 PO PVC	305M	30	WHT

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