

AP1690 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, see color code chart (below), PVC 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				

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 Material Unshielded

OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride
Outer Jacket Ripcord No



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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	4.8 mm
MECHNICAL CHARACTERISTICS:	
Operating Temperature Range	- 20°C To + 75°C
Bulk Cable Weight	30 kg/km
Max. Recommended Pulling Tension	150 N
Min. Bend Radius (Install)	12.7 mm

APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM
NEC Articles	800
CEC/C(UL) Specification	CM
IEC Specification	11801 Category 5e
EU CE Mark (Y/N)	N
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	June 2006
TIA/EIA Specification	568-B.2 Category 5e
Other Specification	NEMA WC-63.1 Category 5e

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:

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			



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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. Structural Return Loss (dB)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	2.0	65.3	62.3	63.0	60.3	20.0	23.0	63.8	60.8
4	4.1	56.3	53.3	51.0	49.2	23.0	23.0	51.7	48.7
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5	45.7	42.7
10	6.5	50.3	47.3	43.0	40.8	25.0	25.0	43.8	40.8
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0	39.7	36.7
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0	37.7	34.7
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3	35.8	32.8
31.25	11.7	42.9	39.9	31.0	28.2	23.6	23.6	33.9	30.9
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5	27.8	24.9
100	22.0	35.3	32.3	14.0	10.3	20.1	20.1	23.8	20.8

NOTES:

Notes Jacket sequentially marked.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color
AP1690 006U1000	4 PR #24 PO PVC	U1000	20	BLU
AP1690 008U1000	4 PR #24 PO PVC	U1000	20	GRY

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Detailed Specifications & Technical Data



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