

1801B Paired - Single-Pair Cable



Description:

24 AWG stranded (7x32) tinned copper conductors, plenum, foam FEP Teflon® insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG drain wire, Flamarrest® jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	24
Stranding	7x32
Conductor Diameter	.024 in.
Conductor Material	TC - Tinned Copper
INSULATION:	

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Insulation Material Trade Name	Teflon®
Insulation Material	FFEP - Foam Fluorinated Ethylene Propylene
Insulation Diameter	.066 in.

Pair Color Code Chart :

Number	Color
1	Red & Black

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Таре
Outer Shield Material	Aluminum Foil-Polyester Tape
Outer Shield %Coverage	100 %
OUTER SHIELD DRAIN WIRE :	
Outer Shield Drain Wire AWG	24
Outer Shield Drain Wire Stranding	7x32
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
OUTER JACKET:	
Outer Jacket Material Trade Name	Flamarrest®
Outer Jacket Material	LS PVC - Low Smoke Polyvinyl Chloride
OVERALL NOMINAL DIAMETER:	



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Overall Nominal Diameter	.165 in.		
MECHANICAL CHARACTERISTICS:			
Operating Temperature Range	-20°C To +75°C		
UL Temperature Rating	75°C		
Bulk Cable Weight	13 lbs/1000 ft.		
Max. Recommended Pulling Tension	16.5 lbs.		
Min. Bend Radius (Install)	1.75 in.		
APPLICABLE SPECIFICATIONS AND AGENCY	COMPLIANCE:		
APPLICABLE STANDARDS:			
NEC/(UL) Specification	СМР		
CEC/C(UL) Specification	СМР		
EU CE Mark (Y/N)	Yes		
EU RoHS Compliant (Y/N)	Yes		
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005		
Other Specification	AES/EBU		
FLAME TEST:			
C(UL) Flame Test	FT6		
PLENUM/NON-PLENUM:			
Plenum (Y/N)	Y		
Non-Plenum Number	1800B		
ELECTRICAL CHARACTERISTICS:			
Nom. Characteristic Impedance	110 Ohms		
Nom. Inductance	.18 µH/ft		
Nom. Capacitance Conductor to Conductor @ 1 KHz	12 pF/ft		
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	26 pF/ft		
Nominal Velocity of Propagation	78 %		
Nom. Conductor DC Resistance @ 20 Deg. C	23.7 Ohms/1000 ft		
Nom. Attenuation (dB/100 ft) :			



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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	.384			.82
	.7056			1.01
	.768			1.02
	1.024			1.08
	1.4112			1.15
	1.536			1.16
	2.048			1.23
	2.8224			1.34
	3.072			1.38
	4.096			1.58
	5.6448			1.79
	6.144			1.85
	8.192			2.05
	11.2896			2.34
	12.288			2.43
	24.576			3.33

Max. Operating Voltage - UL Max. Recommended Current 300 V RMS

2.75 Amps per conductor @ 25°C

NOTES:

Notes

Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1801B 8771000	2 #24 NFFEP FS FLMRST	1000	12	NATURAL	С
1801B 877500	2 #24 NFFEP FS FLMRST	500	6	NATURAL	С
1801B 877U1000	2 #24 NFFEP FS FLMRST	U1000	14	NATURAL	
1801B Z4B1000	2 #24 NFFEP FS FLMRST	1000	12	VIO Z4B	С
1801B Z4B500	2 #24 NFFEP FS FLMRST	500	6	VIO Z4B	
1801B Z4BU1000	2 #24 NFFEP FS FLMRST	U1000	14	VIO Z4B	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-06-2005

Detailed Specifications & Technical Data



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