



STANDARD FLAT CABLE .050" CONDUCTOR SPACING

Product Description

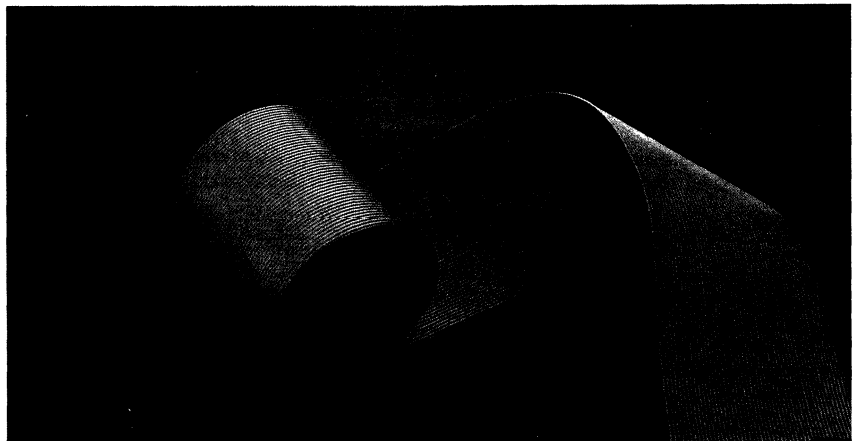
Standard Flat Cable is designed to mass terminate to all types of IDC Connectors without wire stripping or soldering. Primarily designed for intra-cabinet wiring applications, this highly flexible, symmetrical cable is extruded, so that exacting 1.27mm (.050") pitch tolerances are maintained from conductor to conductor. Connectors can be terminated to flat cable in up or down configurations or 180° from each other.

Design Advantages

- 28 AWG Stranded and Solid, 26 AWG Stranded and Solid configurations available.
- 1.27mm (.050") conductor spacing.
- Red stripe on number 1 conductor assures positive polarization.
- 28 AWG Stranded Standard Flat Cable available with 4, 6, 8, 9, 10, 12, 14, 15, 16, 20, 24, 25, 26, 28, 30, 32, 34, 36, 37, 40, 44, 50, 56, 60 or 64 conductors.
- 28 AWG Solid Standard Flat Cable available with 9, 10, 14, 15, 16, 20, 24, 25, 26, 34, 37, 40, 44, 50, 56, or 60 conductors.
- 26 AWG Solid Standard Flat Cable available with 14, 24, 36, or 50 conductors.
- 26 AWG Stranded Standard Flat Cable available with 14, 24, 36, or 50 conductors.

Application Tooling

Cable Cutter 779-5030M



Grooves on both sides of cable assure accurate alignment.

Ordering Information

The information below shows the elements of a catalog number, including available options. To select a product for your specific needs, please refer to appropriate Ordering Chart on the following page(s).

171-10

T&B Series

Number of Conductors

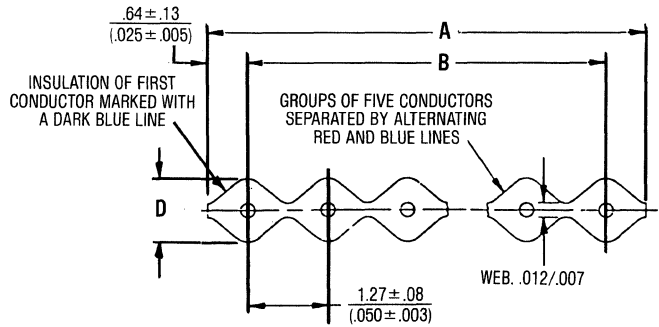
- 171 - 28 AWG Stranded (Tin Plated)
- 173 - 28 AWG Solid
- 178 - 26 AWG Solid
- 179 - 26 AWG Stranded

B

Standard Flat Cable Series 171, 173, 178 & 179

Dimensions shown are for reference only.
Dimensions are in millimeters.
(inches)

SPECIFICATIONS									
CATALOG SERIES	171	173	178	179					
Wire Size AWG	28 Stranded	28 Solid	26 Solid	26 Stranded					
Insulation Material	PVC	PVC	PVC	PVC					
Conductor Spacing mm (in)	1.27 (.050)	1.27 (.050)	1.27 (.050)	1.27 (.050)					
Temperature Rating (°C)	105	105	105	105					
Voltage Rating (RMS)	300	300	300	300					
Impedance Ohms	100	105	103	93					
Capacitance pF/M (pF/FT)	46 (.14)	44.3 (13.5)	44.3 (13.5)	49.5 (15.1)					
Inductance μH/M (μH/FT)	.46 (.14)	.49 (.15)	.46 (.14)	.43 (.13)					
Velocity of Propagation nS/M (nS/FT)	4.53 (1.38)	4.53 (1.38)	4.53 (1.38)	4.43 (1.35)					
Insulation Resistance Ohms/FT	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰					
Typical Crosstalk Characteristics 10 FT Sample 1 Line Driven	Rise Time (ns)	3.0	7.0	3.0	7.0	3.0	7.0		
	Near End (%)	5.0	3.2	4.8	3.1	5.0	3.2	5.2	3.8
	Far End (%)	6.7	2.7	7.3	2.9	6.7	2.7	6.1	2.3
UL Style No.	2651	2651	2651	2651					



CABLE SERIES	DIMENSIONS IN MM (INCHES)
	D
171	.91 (.036)
173	.91 (.036)
178	.97 (.038)
179	1.02 (.040)

ACCUMULATION OF PITCH TOLERANCE BETWEEN CONDUCTORS IN ENTIRE CABLE MAY NOT EXCEED TOLERANCE OF DIM. "B"

Ordering Information

CATALOG NUMBERS				NO. OF POS.	DIMENSIONS IN MM (INCHES)		
26 GAUGE STRANDED	26 GAUGE SOLID	26 GAUGE SOLID	26 GAUGE STRANDED		A	B	B TOLERANCE
171-04	—	—	—	4	5.08 (.200)	3.81 (.150)	±.18 (±.007)
171-06	—	—	—	6	7.62 (.300)	6.35 (.250)	
171-08	—	—	—	8	10.16 (.400)	8.89 (.350)	
171-09	173-09	—	—	9	11.43 (.450)	10.16 (.400)	
171-10	173-10	—	—	10	12.70 (.500)	11.43 (.450)	
171-12	—	—	—	12	15.24 (.600)	13.97 (.550)	
171-14	173-14	178-14	179-14	14	17.78 (.700)	16.51 (.650)	±.25 (±.010)
171-15	173-15	—	—	15	19.05 (.750)	17.78 (.700)	
171-16	173-16	—	—	16	20.32 (.800)	19.05 (.750)	
171-20	173-20	—	—	20	25.40 (1.000)	24.13 (.950)	
171-24	173-24	178-24	179-24	24	30.48 (1.200)	29.21 (1.150)	
171-25	173-25	—	—	25	31.75 (1.250)	30.48 (1.200)	
171-26	173-26	—	—	26	33.02 (1.300)	31.75 (1.250)	
171-28	—	—	—	28	35.56 (1.400)	34.29 (1.350)	
171-30	—	—	—	30	38.10 (1.500)	36.83 (1.450)	
171-32	—	—	—	32	40.64 (1.600)	39.37 (1.550)	
171-34	173-34	—	—	34	43.18 (1.700)	41.91 (1.650)	±.38 (±.015)
171-36	—	178-36	179-36	36	45.72 (1.800)	44.45 (1.750)	
171-37	173-37	—	—	37	46.99 (1.850)	45.72 (1.800)	
171-40	173-40	—	—	40	50.80 (2.000)	49.53 (1.950)	
171-44	173-44	—	—	44	55.88 (2.200)	54.61 (2.150)	
171-50	173-50	178-50	179-50	50	63.50 (2.500)	62.23 (2.450)	
171-56	173-56	—	—	56	71.12 (2.800)	69.85 (2.750)	
171-60	173-60	—	—	60	76.20 (3.000)	74.93 (2.950)	
171-64	—	—	—	64	81.28 (3.200)	80.01 (3.150)	