

## STANDARD FLAT CABLE .050" CONDUCTOR SPACING



### Product Description

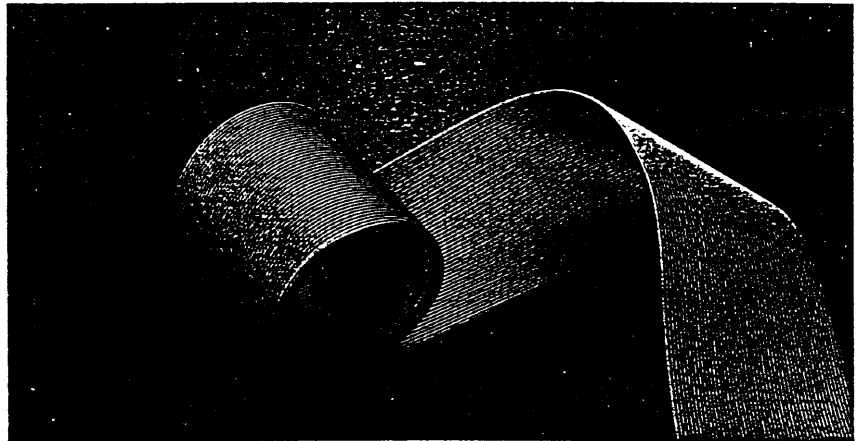
Standard Flat Cable is designed to mass terminate to all types of IDC Connectors without wire stripping or soldering. Primarily designed for intra-cabinet wiring applications, this highly flexible, symmetrical cable is extruded, so that exacting 1.27mm (.050") pitch tolerances are maintained from conductor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

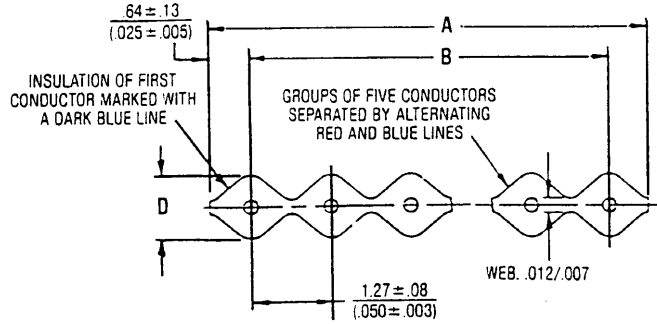
Number of  
Conductors

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

**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 <sup>10</sup>		10 <sup>10</sup>		10 <sup>10</sup>		10 <sup>10</sup>		
Typical Crosstalk Characteristics 10 FT Sample 1 Line Driven	Rise Time nSec	3.0	7.0	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		



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

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

**Ordering Information**

CATALOG NUMBERS				NO. OF POS.	DIMENSIONS IN MM (INCHES)		
28 GAUGE STRANDED	28 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)	
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)	
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)	