

Amphenol Spectra-Strip®

Manufacturers of gigabit copper cable solutions for high bandwidth computer and telephony applications

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Part Information:



Part Number: 132-2801-0XX**

Description: .050" centerline, 28 AWG Twist 'N' Flat, Fully Laminated, PVC insulated

Family: Internal Twisted Pair



Outline Drawing

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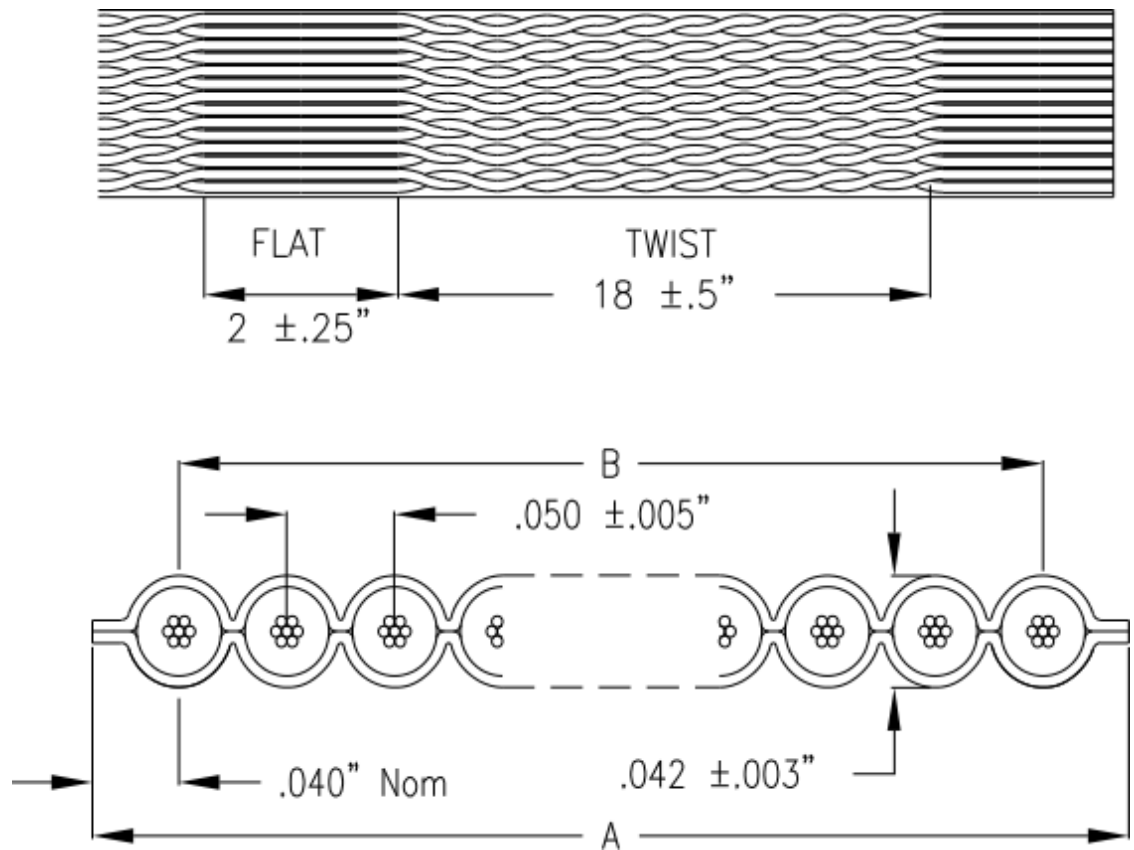
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Introduction

Spectra-Strip Twist 'N' Flat® cable combines the time and cost savings of mass termination with the electrical performance of twisted pairs, making it ideal for high speed computers and communications equipment. Labor savings of up to 95% as compared to automatic strip and crimp termination are readily achieved.

Twist 'N' Flat® cable consists of stranded round conductors insulated with color coded PVC, twisted into pairs and laminated between layers of PVC film to form a planar cable. The twist in adjacent pairs is reversed to reduce cable crosstalk even further. Standard cables alternate 18-inch (45,7cm) long twisted pair sections with 2 inch (5,1cm) flat sections in which the conductors are laminated in parallel.

Twist 'N' Flat® cable can also be fabricated to your custom requirements. Flat sections can be made longer to allow room for multiple connectors. Twisted pair length can be varied from a minimum of 6 inches to many feet to conform to your requirements. The lamination can be fabricated "loose" at specified points to provide easy access to individual conductors. For complete details, consult the Spectra-Strip sales office nearest you.

Features/Benefits

- UL / CSA certified
- Twisted pairs for significant crosstalk reduction
- Up to 64 conductors (32 pairs) with precise spacing for controlled electrical characteristics
- Double sided lamination provides excellent conductor strain

- relief and mass termination from either side of cable
- Reduced assembly costs compared with discrete or hand lamination terminations



Specifications

Physical	
Conductors	28 AWG 7/36 strand tinned copper
Color code	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black and Repeat, Tan Common.
Insulation	.010" PVC
Laminate	Clear PVC, top and bottom
Cable Thickness:	.042" \pm .003" (flat section)
Conductor spacing:	Twisted pair centers: .100" nom. Conductor centers in flats: .050" \pm .005"
Temperature Rating	80° or 105° C
UL Style	Cable style 2697 (80° C) Cable style 20130 (105° C), Component wire style 1061 or 1731
CSA	Cable may be certified under Canadian Standard Association Appliance Wiring Material (AWM) Program (Specify at time of order) CSA AWM I A80° C, 300 V, FT-1.

Electrical	
Impedance	100 Ohms nom single ended
Capacitance	15 pF / ft @ 1 MHz, single ended
Propagation Delay	1.6 ns / ft Nom
Voltage Rating	300 V
Current Rating	1 A Nom @ 10° C rise above ambient

Crosstalk	10' sample, 5 ns rise time.
	Unbalanced (2 lines driven) NE = 4.0% FE = 3.5% Nom
	Balanced NE = .7% FE = .45% Nom



Ordering Information

Part Number	No. Cond.	No. Pairs	Width A		Span B	
			Inches	(mm)	Inches	(mm)
132-2801-010	10	5	.526	(13,36)	.450 ± .015	(11,43 ± 0,38)
132-2801-014	14	7	.726	(18,44)	.650 ± .015	(16,51 ± 0,38)
132-2801-016	16	8	.826	(20,98)	.750 ± .015	(19,05 ± 0,38)
132-2801-020	20	10	1.026	(26,06)	.950 ± .015	(24,13 ± 0,38)
132-2801-026	26	13	1.326	(33,68)	1.250 ± .015	(31,75 ± 0,38)
132-2801-034	34	17	1.726	(43,84)	1.650 ± .015	(41,91 ± 0,38)
132-2801-036	36	18	1.826	(46,38)	1.750 ± .015	(44,45 ± 0,38)
132-2801-040	40	20	2.026	(51,46)	1.950 ± .020	(49,53± 0,51)
132-2801-050	50	25	2.526	(64,16)	2.450 ± .020	(62,23 ± 0,51)
132-2801-060	60	30	3.026	(76,86)	2.950 ± .020	(74,93± 0,51)
132-2801-064	64	32	3.226	(81,94)	3.150 ± .025	(80,01 ± 0,64)

** XX =s number of conductors