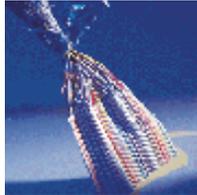


[Part Information](#) | [Outline Drawing](#) | [Introduction](#) | [Specifications](#) | [Ordering Information](#)



## Part Information:



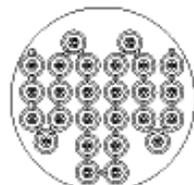
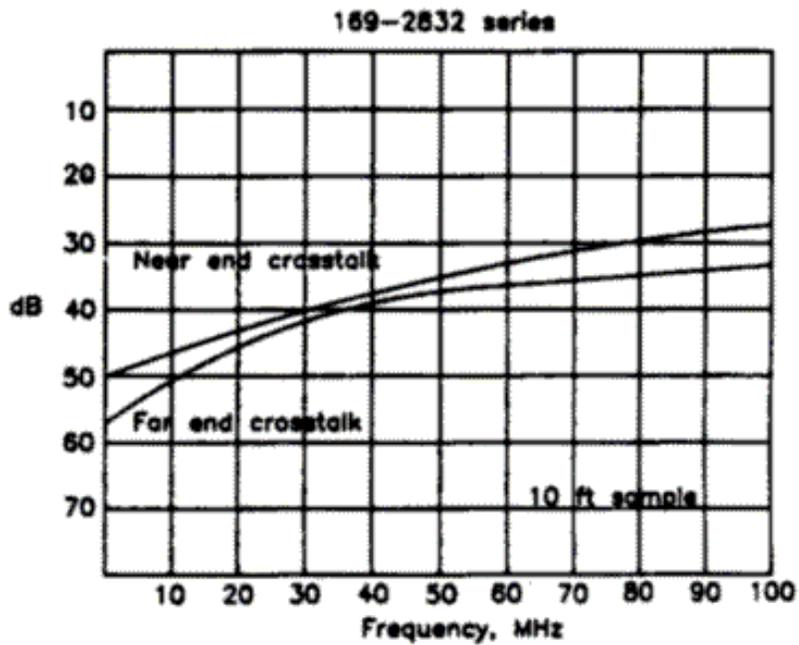
**Part Number:** 169-2832-060

**Description:** Loose pair round Twist 'N' Flat aluminum and braid, .050 pitch, 28 awg, 60 conductors

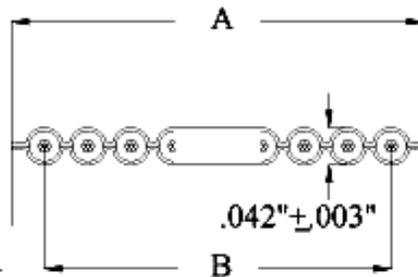
**Family:** Round and Flat



## Outline Drawing



Cross Section at Flat



Ref Diameter      Braid      Foil      Loose Pair Length Per customer specification

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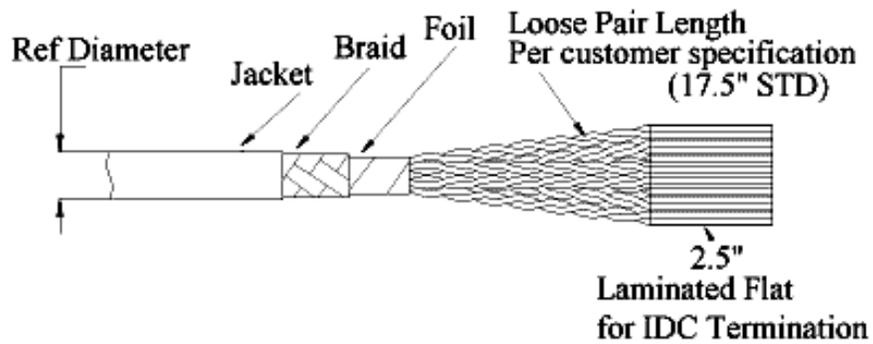
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**TOP Introduction**

Loose Pair Round Twist 'n' Flat cable is designed to combine the electrical performance and handling features of discrete twisted pair cable with the mass termination capabilities of flat ribbon cable.

The inner cable consists of 28-7 AWG tinned copper conductors insulated with PVC and twisted into loose pairs. Conductors are laminated in parallel on .050" conductor spacing every 20 inches to accept termination to insulation displacement connectors. Laminated .050" areas can be fabricated at custom intervals. Minimum twist length is 6", maximum twist length is determined by size of put-up.

The loose twisted pairs are wrapped in aluminum polyester foil shield and overall tinned copper braid to help meet FCC requirements for EMI/RFI suppression. A round .030" PVC jacket is extruded over the cable for maximum protection and ease of routing. The center of each laminated .050" area is visible on the outer jacket to locate connector terminating areas quickly and easily.

**TOP Specifications**

<b>Physical</b>	
<b>Conductors</b>	28-7/36 AWG Tinned Copper
<b>Color Code</b>	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black and Repeat with Tan common
<b>Insulation</b>	Extruded .010" PVC Wall (Laminated Between .005" clear PVC Films at Flat Sections)
<b>Flat Pitch</b>	.050"
<b>Shielding</b>	Aluminum/Polyester Foil with Minimum 85% Coverage Tinned Copper Braid
<b>Jacket</b>	Black PVC, .030" Wall
<b>Temperature Rating</b>	-20°C to +105°C (-4°F to 221°F)
<b>UL / CSA rating</b>	UL CL2 CSA AWM I/II A105 deg.C 300V, FT-1
<b>Electrical</b>	

<b>Voltage</b>	300 volts
<b>SE Impedance</b>	70 ohms nom
<b>Diff Impedance</b>	100 ohms nom
<b>SE Capacitance</b>	25 pF/ft at 1 MHz (82 pF / m)
<b>Diff Capacitance</b>	17 pF / ft at 1 MHz ( 55 pF / m)
<b>Time Delay</b>	1.70 ns/ft (5.58 ns/m)
<b>Insulation Resistance</b>	10 <sup>10</sup> ohms - 10 ft. min.



### Ordering Information

		Width 'A'		Soan 'B'		Ref. Dia. Inches	
Part Number	No. Pairs	Inches	(mm)	Inches	(mm)	0XX	1XX 2XX
169-2832-O10	5	.526	(13.36)	.450	(11.43)	.250	.220
169-2832-O10	5	.526	(13.36)	.450	(11.43)	.250	.220
169-2832-O14	7	.726	(18.44)	.650	(16.51)	.260	.230
169-2832-O16	8	.826	(20.98)	.750	(19.05)	.280	.250
169-2832-O20	10	1.026	(26.06)	.950	(24.13)	.290	.260
169-2832-O26	13	1.326	(33.68)	1.250	(31.75)	.310	.280
169-2832-O34	17	1.726	(43.84)	1.650	(41.91)	.360	.330
169-2832-O40	20	2.026	(51.46)	1.950	(49.53)	.390	.360
169-2832-O50	25	2.526	(64.16)	2.450	(62.23)	.430	.400
169-2832-O60	30	3.026	(76.86)	2.950	(74.93)	.470	.440
169-2832-O64	32	3.226	(81.94)	3.150	(80.01)	.480	.450

Shielding Variations: -0XX Foil/Brand, -1XX Foil Only, -2XX No Shield, Jacket Only