

Hi-Flex Shielded Signal Cable

- Ideal for High Performance Data Transmission Applications
- Ultra Flexible for Confined Area and Continuous Motion
- Twisted Shielded Signal Pairs for Excellent EMI/RFI Protection

Cicoil's Hi-Flex Shielded Signal cables are ideal for the most demanding data transmission applications. Cicoil's patented extrusion process allows individually shielded pairs to be placed in a highly flexible flat profile, while exceeding electrical and signal requirements. These flat cable designs are an excellent alternative to bulky round and stiffer PVC or Teflon flat cable designs.



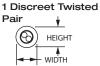
Sensors, Encoders, Actuators, Resolvers

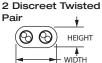
Cable

Conductor	Amp Rating ¹	No. of Pairs	Dimensions [inches]		Part
Gauge			Width	Height	Number
	5	1	0.12	0.12	969M101-28-1TPS
28 AWG		2	0.21	0.12	969M101-28-2TPS
		3	0.31	0.12	969M101-28-3TPS
		5	Ø0.21	Ø0.21	969M101-28-5TPS
	6	1	0.13	0.13	969M101-26-1TPS
26 AWG		2	0.23	0.13	969M101-26-2TPS
		3	0.32	0.13	969M101-26-3TPS
	7	1	0.14	0.14	969M101-24-1TPS
24 AWG		2	0.25	0.14	969M101-24-2TPS
		3	0.36	0.14	969M101-24-3TPS
	8	1	0.15	0.15	969M101-22-1TPS
22 AWG		2	0.27	0.15	969M101-22-2TPS
		3	0.40	0.15	969M101-22-3TPS
	15	1	0.21	0.21	969M101-18-1TPS
18 AWG		2	0.38	0.21	969M101-18-2TPS
		3	0.56	0.21	969M101-18-3TPS

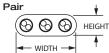
Pair

Dimensions





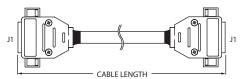
3 Discreet Twisted





Assembly Dimensions

Options



Notes

1. Amp rating is the maximum value for each conductor at room temperature of 70°F (21°C). Amp rating decreases as temperature increases.

-CA012

Cable Assemblies



Please contact Cicoil for other connectors and length options.

Cable Specifications

2	Cable Length (feet)	Part Number Addition
	3	-CA003
1	6	-CA006
	12	-CA012

1. Append onto base cable Part Number for complete assembly. Example: 969M101-28-1TPS-CA003

Connector ratings may differ from cable 2. ratings; refer to manufacturer specifications.

All engineering values are nominal and subject to change.

Mechanical	Environmental	Additional Conductors Low Friction Options StripMount™ Integrated Mounting Strip Integrated Tubing SuperTuff™ Jacket	
Conductors: Ultra flexible, finely stranded, tinned copper Shielding: Ultra flexible, braided shields, with 90% nominal coverage Minimum Bend Radius:	Temperature Rating: -65°C to +165°C Moisture Rating: Submersible, Salt Water Resistant Clean Room Rating: Class 1, Zero Particulates Extreme Environments: Sunlight, UV Light, Alcohol, Chemical and Oil Resistant		
- 6x cable height for intermediate flex	Electrical	Colored Jacketing	
- 10x cable height for continuous flex Flex Life: 10,000,000 cycles nominal	Outer Jacket Dielectric Strength: 450 volts/mil (17.7 kv/mm)	Strip and Tin Cable Ends	
Outer Jacket Durometer Rating: 65 (Shore A)	See Electrical Rating Chart on Page 47	FlexRail™ Self-Supporting Cable	

Notes

Connectors

Wire Gauge	Signal (J1)
28	25-Pin - Amphenol, P/N L717-DB25P Metallized Shell - TE, P/N 5748677-3
22-26	Gold Contacts - TE, P/N 745254-2 25-Pos D-SUB Housing - TE, P/N 5205208-1
18	Gold Contacts - MOLEX, P/N 02-09-6110 9-Pos Housing - MOLEX, P/N 3092092

SuperTuff™ Jacket
Colored Jacketing
Strip and Tin Cable Ends
FlexRail™ Self-Supporting Cable
Complete Assembly

Motion Control

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