

Hi-Flex Shielded Signal Cable

NEED CUSTOMS?
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- 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.



Applications
Sensors, Encoders, Actuators, Resolvers

Cable

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

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.

Cable Assemblies



Please contact Cicoil for other connectors and length options.

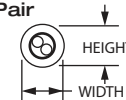
Cable Length (feet)	Part Number Addition
3	-CA003
6	-CA006
12	-CA012

Notes

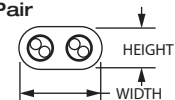
- Append onto base cable Part Number for complete assembly. Example: 969M101-28-1TPS-CA003
- Connector ratings may differ from cable ratings; refer to manufacturer specifications.

Dimensions

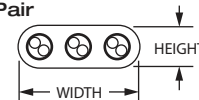
1 Discreet Twisted Pair



2 Discreet Twisted Pair



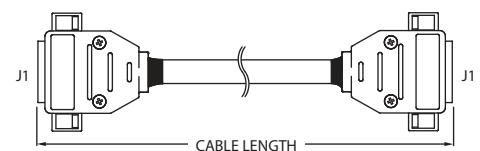
3 Discreet Twisted Pair



5X TWISTED PAIR



Assembly Dimensions



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

Cable Specifications

All engineering values are nominal and subject to change.

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

Options

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