

Controlled Impedance Cable

- Individually Controlled Impedance Signals with Frequencies
 Up to 1 GHz
- Excellent Alternative to Coaxial Cables in Many Applications
- Choice of 1 8 Individually Shielded 100 Ohm Twinax Conductors

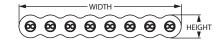
Cicoil's Controlled Impedance Cable is a highly flexible cable with individually controlled impedance signals. This 30 AWG/1 twisted shielded pair cable can be used as a more durable and flexible alternative to standard twisted pair and coaxial cables. Unlike bulky round and non-flexible woven cables, the Cicoil design can be used in applications requiring submersion in water, exposure to harsh weather and rugged environments. And the flat cable construction guarantees clear, high speed data transmission.



Cable

Amp Rating ¹	Conductor Gauge	No. of Pairs	No. of Conductors	Dimensions [inches]		Part
				Width	Height	Number
3	30 AWG	1	2	0.15	0.15	CIM-100-01
		2	4	0.28	0.15	CIM-100-02
		4	8	0.54	0.15	CIM-100-04
		6	12	0.81	0.15	CIM-100-06
		8	16	1.07	0.15	CIM-100-08

Dimensions



Note

 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



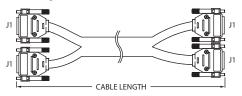
ase contact Cicoil for other	

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

Notes

- Append onto base cable Part Number for complete assembly. Example: CIM-100-01-CA003
- 2. Connector ratings may differ from cable ratings; refer to manufacturer specifications.

Assembly Dimensions



Connectors

• Signal (J1): D-SUB, P/N 205203-8

Cable Specifications

All engineering values are nominal and subject to change.

Mechanical

Conductors: Ultra flexible, finely stranded, tinned copper

Shielding: Ultra flexible, braided shields, with 90% nominal coverage

Minimum Bend Radius:

- 6x cable height for intermediate flex
- 10x cable height for continuous flex

Flex Life: 10,000,000 cycles nominal
Outer Jacket Durometer Rating: 65 (Shore A)

Environmental

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

Electrical

Outer Jacket Dielectric Strength: 450 volts/mil (17.7 kv/mm)

See Electrical Rating Chart on Page 47

Options	Page
Additional Conductors	26
Low Friction Options	28
StripMount™ Integrated Mounting Strip	28
Integrated Tubing	29
SuperTuff™ Jacket	29
Colored Jacketing	29
Strip and Tin Cable Ends	29
FlexRail™ Self-Supporting Cable	30
Complete Assembly	3