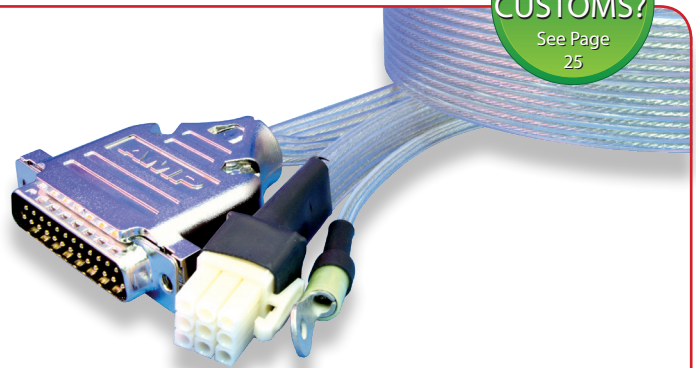


Hi-Flex Unshielded Cable

- Ideal for High Performance Power & Control Applications
- Ultra Flexible Cable for Confined Area and Continuous Motion
- 4 AWG - 28 AWG Conductors Available in 2 - 12 Conductors
- Low Smoke/Zero Halogen (LSZH)

Cicoil's line of Hi-Flex Unshielded Cables provides the advantages of all Cicoil flexible cables in a standard, low-cost package. Ultra-flexible, finely stranded wire conductors are used for maximum flexibility and long life in dynamic, flexing applications. Cicoil's patented extrusion process encapsulates the wire conductors in a crystal clear, flexible, yet extremely durable Flexx-Sil™ insulation.

NEED CUSTOMS?
See Page 25



Applications
Aerospace, Festoon Systems, Robotics,
Medical, Oil Drilling, Packaging

Cable

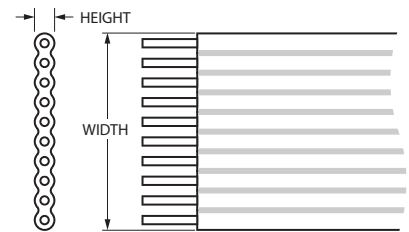
| Amp Rating ¹ | Volts DC | Conductor Gauge | No. of Conductors | Dimensions [inches] | | Part Number |
|-------------------------|----------|-----------------|-------------------|---------------------|--------|---------------|
| | | | | Width | Height | |
| 5 | 12K | 28 AWG | 2 | 0.13 | 0.08 | 969M101-28-2 |
| | | | 3 | 0.18 | 0.08 | 969M101-28-3 |
| | | | 4 | 0.23 | 0.08 | 969M101-28-4 |
| | | | 6 | 0.33 | 0.08 | 969M101-28-6 |
| | | | 8 | 0.43 | 0.08 | 969M101-28-8 |
| | | | 10 | 0.53 | 0.08 | 969M101-28-10 |
| 6 | 12K | 26 AWG | 2 | 0.14 | 0.09 | 969M101-26-2 |
| | | | 3 | 0.19 | 0.09 | 969M101-26-3 |
| | | | 4 | 0.25 | 0.09 | 969M101-26-4 |
| | | | 6 | 0.35 | 0.09 | 969M101-26-6 |
| | | | 8 | 0.46 | 0.09 | 969M101-26-8 |
| | | | 10 | 0.57 | 0.09 | 969M101-26-10 |
| 8 | 12K | 24 AWG | 2 | 0.15 | 0.10 | 969M101-24-2 |
| | | | 3 | 0.21 | 0.10 | 969M101-24-3 |
| | | | 4 | 0.27 | 0.10 | 969M101-24-4 |
| | | | 6 | 0.38 | 0.10 | 969M101-24-6 |
| | | | 8 | 0.50 | 0.10 | 969M101-24-8 |
| | | | 10 | 0.62 | 0.10 | 969M101-24-10 |
| 11 | 18K | 22 AWG | 2 | 0.18 | 0.11 | 969M101-22-2 |
| | | | 3 | 0.25 | 0.11 | 969M101-22-3 |
| | | | 4 | 0.32 | 0.11 | 969M101-22-4 |
| | | | 6 | 0.45 | 0.11 | 969M101-22-6 |
| | | | 8 | 0.59 | 0.11 | 969M101-22-8 |
| | | | 10 | 0.73 | 0.11 | 969M101-22-10 |
| | | | 12 | 0.87 | 0.11 | 969M101-22-12 |

Note

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

Dimensions

2-12 Conductors



Cable Assemblies - 22-28 AWG



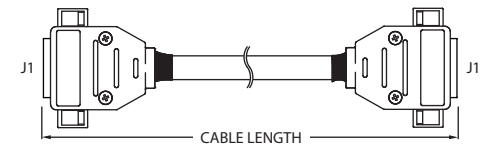
Please contact Cicoil for other connectors and length options.

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

Notes

1. Append onto base cable Part Number for complete assembly. Example: 969M101-28-2-CA003
2. Connector ratings may differ from cable ratings; refer to manufacturer specifications.

Assembly Dimensions



Connectors for 28 AWG

- Signal (J1): 25-Pos D-SUB - Amphenol, P/N L717-DB25P Metallized Shell - TE, P/N 5748677-3

Connectors for 22-26 AWG

- Signal (J1): Gold Contacts - TE, P/N 745254-2
25-Pos D-SUB Housing - TE, P/N 5205208-1

Unshielded

Cable (continued)

| Amp Rating ¹ | Volts DC | Conductor Gauge | No. of Conductors | Dimensions [inches] | | Part Number |
|-------------------------|----------|-----------------|-------------------|---------------------|--------|---------------|
| | | | | Width | Height | |
| 13 | 18K | 20 AWG | 2 | 0.20 | 0.12 | 969M101-20-2 |
| | | | 3 | 0.28 | 0.12 | 969M101-20-3 |
| | | | 4 | 0.36 | 0.12 | 969M101-20-4 |
| | | | 6 | 0.51 | 0.12 | 969M101-20-6 |
| | | | 8 | 0.67 | 0.12 | 969M101-20-8 |
| | | | 10 | 0.83 | 0.12 | 969M101-20-10 |
| 20 | 20K | 18 AWG | 2 | 0.24 | 0.14 | 969M101-18-2 |
| | | | 3 | 0.33 | 0.14 | 969M101-18-3 |
| | | | 4 | 0.43 | 0.14 | 969M101-18-4 |
| | | | 6 | 0.62 | 0.14 | 969M101-18-6 |
| | | | 8 | 0.81 | 0.14 | 969M101-18-8 |
| | | | 10 | 1.00 | 0.14 | 969M101-18-10 |
| 26 | 20K | 16 AWG | 2 | 0.26 | 0.15 | 969M101-16-2 |
| | | | 3 | 0.37 | 0.15 | 969M101-16-3 |
| | | | 4 | 0.48 | 0.15 | 969M101-16-4 |
| | | | 6 | 0.70 | 0.15 | 969M101-16-6 |
| | | | 8 | 0.92 | 0.15 | 969M101-16-8 |
| | | | 10 | 1.14 | 0.15 | 969M101-16-10 |
| 27 | 20K | 14 AWG | 3 | 0.47 | 0.19 | 969M101-14-3 |
| | | | 4 | 0.61 | 0.19 | 969M101-14-4 |
| | | | 8 | 1.16 | 0.19 | 969M101-14-8 |
| 36 | 20K | 12 AWG | 3 | 0.58 | 0.24 | 969M101-12-3 |
| | | | 4 | 0.75 | 0.24 | 969M101-12-4 |
| 47 | 20K | 10 AWG | 4 | 0.92 | 0.29 | 969M101-10-4 |
| 65 | 20K | 8 AWG | 4 | 1.17 | 0.35 | 969M101-8-4 |
| 95 | 20K | 6 AWG | 4 | 1.47 | 0.40 | 969M101-6-4 |
| 125 | 20K | 4 AWG | 4 | 1.64 | 0.47 | 969M101-4-4 |

Note

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 – 4-20 AWG



Please contact Cicoil for other connectors and length options.

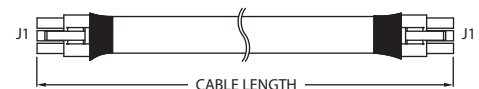


| Cable Length (feet) | Part Number Addition |
|---------------------|----------------------|
| 3 | -CA003 |
| 6 | -CA006 |
| 12 | -CA012 |

Notes

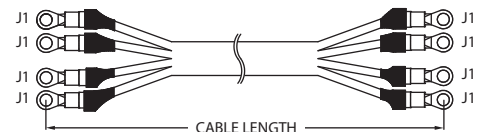
- Append onto base cable Part Number for complete assembly.
Example: 969M101-20-2-CA003
- Connector ratings may differ from cable ratings; refer to manufacturer specifications.

Assembly Dimensions



Connectors for 14-20 AWG

- Signal (J1): Gold Contacts - MOLEX, P/N 02-09-6110
- 15-Pos Housing - MOLEX, P/N 19-09-2159



Connectors for 4-12 AWG

- Signal (J1): Ring Lugs - Typical

Cable Specifications

All engineering values are nominal and subject to change.

| Mechanical | Environmental |
|---|--|
| Conductors: Ultra flexible, finely stranded, tinned copper Minimum Bend Radius: - 6x cable height for intermediate flex - 10x cable height for continuous flex Outer Jacket Durometer Rating: 65 (Shore A) | 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 Low Smoke/Zero Halogen (LSZH): Has passed testing for smoke, toxicity, flammability and halogen content, by UKAS certified lab |
| | Electrical |
| | Outer Jacket Dielectric Strength: 450 volts/mil (17.7 kv/mm) See <i>Electrical Rating Chart</i> on Page 47 |

Options

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