

The **SCI 086** Interconnect Assembly series incorporates Conformable™ cable and standard connectors providing an alternative to semi-rigid cable assemblies to 18 GHz. These assemblies feature a copper foil tape and tin filled composite cable jacket. The assemblies have standard connectors designed to meet both MIL-C-39012 and MIL-STD-348a with styles including right angles, flange and bulkheads. These cable assemblies are useful where semi-rigid cable would be used, but can be hand formed without the expensive cost of design, tooling and drawings.

## FEATURES

Copper tinned composite jacket for hand formability

Solid PTFE dielectric

Tight bending radius of .125 inches

## CONNECTORS

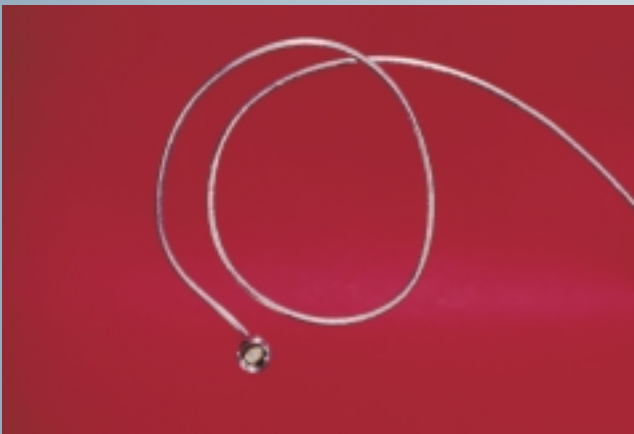
Any commercially available connectors for semi-rigid .086 cable

## CABLE SIZE

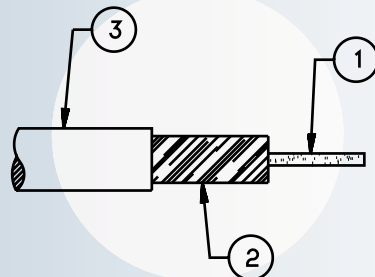
.086 inches, nominal outer diameter; 4 inches to 18 inches, 24 inches standard lengths

## APPLICATIONS

Alternative for semi-rigid assemblies



### Cable Construction



1. Center conductor: Silver plated copper clad steel \*
  2. Dielectric: Solid PTFE
  3. Outer conductor: Copper foil tape and tin-filled composite braid
- \* Silver plating per ASTM-B-298

Conformable™ is a registered trademark of Belden Wire & Cable Company

### ELECTRICALS

|                               |              |            |
|-------------------------------|--------------|------------|
| Velocity of Propagation %     |              | 69.5       |
| RF Leakage Min. @ 12GHz dB/ft |              | -85        |
| Impedance                     | Nominal      | 50         |
| Capacitance                   | pF/ft (pF/m) | 29 (95.14) |

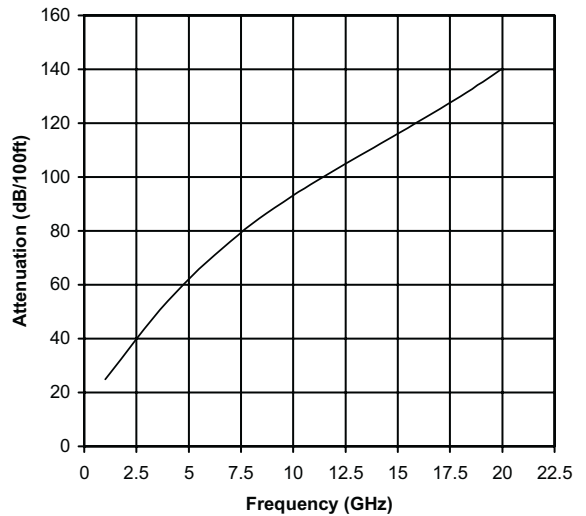
### MECHANICAL/ENVIRONMENTAL

|                     |                 |             |
|---------------------|-----------------|-------------|
| Nominal Diameter    | inches (cm)     | .086 (.216) |
| Minimum Bend Radius | inches (cm)     | .125 (.318) |
| Minimum Flex Radius | inches (cm)     | .375 (.953) |
| Temperature         | DEG. C          | -70/+200    |
| Weight              | lb/100ft (kg/m) | 2.2 (.03)   |

### Materials and Finishes (Cable)

|                  |                                   |
|------------------|-----------------------------------|
| Jacket           | Tin Filled Braid Composite        |
| Dielectric       | TFE Teflon                        |
| Center Conductor | Steel, copper clad, silver plated |

**SC086 CABLE**  
**ATTENUATION vs FREQUENCY**

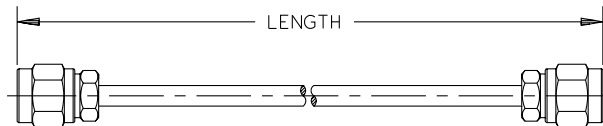


### CONNECTOR CODES



|                 |      |
|-----------------|------|
| CONNECTOR STYLE | MALE |
|                 | STR  |
| SMA             | 2 1  |

### HOW TO MEASURE LENGTH



Standard lengths of  
 4 inches to 18 inches,  
 in one inch increments plus 24 inches

### HOW TO SPECIFY PART NUMBER

□ □  
 CONNECTOR ONE

□ □  
 CONNECTOR TWO

S C 0 8 6  
 CABLE

□ □ □ □  
 STANDARD LENGTH (INCHES)

FOR EXAMPLE:

SMA STRAIGHT MALE TO SMA STRAIGHT MALE, 36 INCHES LONG.  
 NOTE: USE LEADING ZEROS WHEN SPECIFYING LENGTH.

PART NUMBER IS:      2 1                      2 1                      S C 0 8 6                      0 3 6

FOR LENGTHS AND CONFIGURATIONS NOT LISTED CONTACT SEMFLEX: [customer.service@semflex.com](mailto:customer.service@semflex.com)