



With Overall Braided Shield FEP/Nylon Primaries and Polyurethane Jacket

*Insulation passes 6000 Vac spark test. Completed construction passes a dielectric test of 3000 Vdc for 1 minute (conductor-to-conductor). Maximum conductor resistance is 10.5 ohms per 1000 feet at 25°C/ conductor.

APPLICATION

SCC load cell cable is used for the interconnection of high-impedance, low-frequency instrumentation circuits. The dual insulation on the primary assures low leakage current even under environmental extremes of moisture, chemicals and mechanical flexure. The polyurethane jacket offers the ultimate in abrasion and cut-through properties.

ADVANTAGES:

- Extremely rugged
- Easy to install
- Tinned copper shield braid for increased protection from electrical noise

ELECTRICAL PROPERTIES

Capacitance, Shield to Conductor:	45 pfd/ft.
Capacity Stability:	Approximately constant for full Temperature range
Capacitance Between Conductors:	28 pdf/ft.
Insulation Resistance:	Greater than 5,000 megohm –1,000 Ft. (Not affected by atmospheric Changes in temperature and humidity)
Dielectric Constant:	2.2 maximum

CONSTRUCTION SPECIFICATIONS

Conductors:	4 No. 20 AWG 7 strand tinned copper wire	6 No. 20 AWG 7 strand tinned copper wire
* Insulation:	FEP .009" nominal wall over-jacket Nylon .0035" nominal wall	FEP .009" nominal wall over-jacket Nylon .0035" nominal wall
Color Code	4 conductor: white, red, black, green	6 Conductor: white, red, black, green, blue, yellow
Shield:	Tinned copper braid (90% coverage)	Tinned copper braid (90% coverage)
Separator:	Polyester tape	Polyester tape
Jacket:	Black polyurethane; .062" nominal wall	Black polyurethane; .062" nominal wall

Physical Properties

Operating Temperature:	-50°C to +105°C
** *Cold Bend Qualification Test (20 second time limit):	passes -50°C
** *Heat Resistance:	105°C continuous
** *Heat Shock Test (primary sample wrapped 6 times around mandrel equal to sample O.D. after exposure to temperature of 121 °C for one hour):	no cracks
** *Per ICEA S-61-402	

Catalog Numbers	Number of Conductors	Nominal O.D. (inches)	Nominal Weight (lbs./M ft.)
837-4000402	4	0.295	55
837-4000808	6	0.396	108

TOLERANCES

Not less than 75% of material shipped will be in lengths specified, -0 +10%. The remaining 25% of material shipped will be in lengths specified, -0 +25%.

Custom Cables: The cables in this table represent our standard product line. If you require special modifications or unique customizations, SCC engineers along with our extensive testing facilities can create and produce special cables for the most demanding applications.