

TRANSDUCER CABLE

4/C & 6/C

With Overall

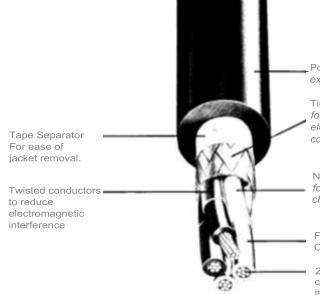
Braided Shield

FEP/Nylon

Primaries and

Polyurethane

Jacket



Polyurethane jacket for resistance to extreme abrasion and cut-through

Tinned copper 90% coverage shield for flexibility, increased shielding from electrical noise and reduced conductor corrosion

Nylon coated primaries for additional cut-through and abrasion characteristics

FEP primary insulation for low leakage Current and improved solder-ability

20 AWG 7 strand tinned copper for corrosion resistance, flexibility, ease of installation and soldering

*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℃/ conductor.

APPLICATION

SCC load cell cable is used for the interconnection of highimpedance, low-frequency instrumentation circuits. The dual insulation on the primary assureslow leakage current even under environmental extremesof moisture, chemicals and mechanical flexure. Thepolyurethane 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:

Capacity Stability: Approximately constant for full

Capacitance Between

Conductors:

28 pdf/ft.

45 pfd/ft.

Temperature range

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 FEP .009" nominal wall over-jacket

> Nylon .0035" nominal wall 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

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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

* * *PerICEA 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.