

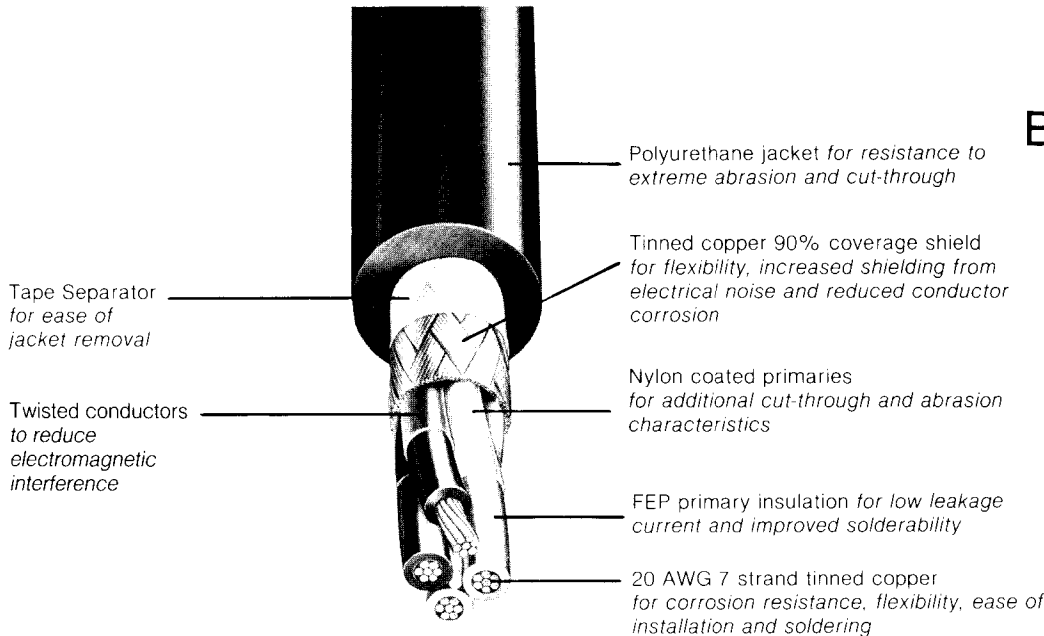


2 Tower Drive • P. O. Box 50 • Wallingford, CT 06492  
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# TRANSDUCER CABLE

**4/C & 6/C**

With  
Overall  
Braided Shield  
FEP/Nylon  
Primaries  
and  
Polyurethane  
Jacket



## APPLICATION

Specialty Cable 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.

## 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 overjacket Nylon .0035" nominal wall	FEP .009" nominal wall overjacket 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; .050" nominal wall

\* 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.

## ELECTRICAL PROPERTIES

Capacitance, Shield to Conductor:	45pfd/ft.
Capacity Stability:	Approximately constant for full temperature range
Capacitance Between Conductors:	28pfd/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

**ENGINEERING FOR TOMORROW**

**ISO - 9001 CERTIFIED**

## 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 temp- erature 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%.

**SPECIAL DESIGNS:** The cable designs in this table represent our standard product line. If you require special modifications or unique designs, Specialty's design and testing facilities can produce special cables for the most demanding applications.

For further information or additional copies of this product listing, call or write:

### **SPECIALTY CABLE CORPORATION**

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