

\* Please visit the product pages on our website for the most up-to-date product information

## EN3™ MINI WEATHERTIGHT OVERMOLDED CABLE ASSEMBLIES



### FEATURES AND BENEFITS

- Dual purpose handle provides flex relief and finger grip design for easy insertion and withdrawal.
- Available in both cord and in-line versions.
- 2 through 8 pin configurations.
- Superior leakage protection. Contact area is double-sealed for excellent moisture and chemical resistance.
- Integral O-ring and gasket. O-ring is molded onto cord housing assembly and gasket is molded onto panel housing assembly to prevent leakage and eliminate need for additional copper case o-rings and gaskets.
- Thermoplastic rubber body simulates closed entry contact system to prevent probe damage or accidental loss of spring retention due to misaligned or bent pins.
- Housing rated UL 94V-O against flammability.
- Exceeds Coast Guard specifications for water tightness (CFR 46 Part 110.20).
- Exceeds enclosure rating IP16/IP18 when not mated or covered and IP66/IP68 when mated or covered (IEC 529).
- Exceeds enclosure rating 6P at 1000V when mated or covered (NEMA 250).

### APPLICATIONS

- Process Control
- Communications
- Marine Electronics
- Transportation
- Medical Instrumentation
- General Industrial Electronics
- Geothermal Instrumentation

### MATERIALS

#### Connector shells, contact locking disk:

Thermoplastic polymer glass fiber, flame retardant

#### Coupling ring: Nylon

Connector shell interior: Thermoplastic rubber

Contacts: Copper base alloy gold-plated over nickel underplate

### PART NUMBERING GUIDE\*

Example:

1st Termination	Color	Cable	Length in Inches	2nd Termination
503	H	A	072	184

\*In most instances the multi-conductor cable will be used – found on page 252.

The overmolded EN3™ cable can accept nominal cable O.D.'s up to .300.

Tooling charges may apply for customer specified cable.

### SPECIFICATIONS

#### MECHANICAL

**Shock:** Mil-Std 202 Method 213B, condition K

**Vibration:** Mil-Std 202 Method 201

**Life:** 600 insertion/withdrawal cycles (minimum)

#### ELECTRICAL

**Voltage Rating (sea level):** Tested at 600 VRMS

**Insulation Resistance:** 100 megohms (minimum) at 77° F

**Contact Resistance:** 5 milliohms (maximum)

**Current Rating:** 7.5 Amps (#20 contact);  
13.0 Amps (#16 contact)

#### ENVIRONMENTAL

**Temperature Limits:** -40°C to +65°C (non-operating)

**Moisture Resistance:** Mil-Std 202 Method 106F

**Insulation Resistance:** Mil-Std 202 Method 302 condition B

**Thermal Shock:** Mil-Std 202 Method 107G

**Salt Spray:** Mil-Std 202 Method 101D condition B

#### RATINGS

IP16/IP18

IP66/IP68

NEMA 250 (6P)

CFR 46 Part 110.20

UL 94V-O

Patent 5,485,673 File 36049

### OVERMOLDED STYLE NUMBER

#### #20 CONTACT SIZE

Number of Pins	2	3	4	5	6	7	8
Male Cord	502	503	504	505	506	—	—
Female Cord	512	513	514	515	516	517	518
Male Inline	522	523	524	525	526	527	528
Female Inline	532	533	534	535	536	—	—

### OVERMOLDED STYLE NUMBER

#### #16 CONTACT SIZE

Number of Pins	2	3	4	5	6	7	8
Male Cord	552	553	—	—	—	—	—
Female Cord	562	563	—	—	—	—	—
Male Inline	572	573	—	—	—	—	—
Female Inline	582	583	—	—	—	—	—

Note: 9-18 versions can also be molded. Contact factory for details.

DIMENSIONS ARE FOR REFERENCE ONLY  $\frac{\text{Inch}}{(\text{mm})}$