

**NEW PRODUCT BULLETIN 601** 

#### **FEATURES & BENEFITS**

- Sealed to IP68, NEMA 250 (6P) (when mated)
- Available in standard or winged coupling ring
- Patented grommet and o-ring free design
- Solder/crimp and PC contact options

#### **APPLICATIONS**

- Any sealed data transmission
- Military or industrial GPS location devices
- Instrumentation
- Medical data carts
- Marine Applications
- Transportation
- General industrial electronic applications









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#### **SPECIFICATIONS**

#### **MECHANICAL SPECIFICATIONS**

Vibration:

Hex Nut Torque:

Back Shell Type:

Life: 600 insertion/withdrawal cycles minimum

Mil-Std 202G Method 201A

5-6 in/lb

8 lb maximum insertion. 0.25 lb minimum withdrawal Operating Forces:

Threaded Handle

**ELECTRICAL SPECIFICATIONS** 

Voltage Rating: 250 V AC/DC for 2 contact arrangement. 125 V AC/DC for 3-7 contact arrangements

Refer to current rating table on page 3

Current Rating:  $1000 \, M\Omega \, minimum$ Insulation Resistance: Contact Resistance: 10 mΩ maximum

#### **ENVIRONMENTAL SPECIFICATIONS**

**Operating Temperature Limits:**  $-40^{\circ}$ C to  $+85^{\circ}$ C ( $-40^{\circ}$ F to  $+185^{\circ}$ F) Mil-Std 202G Method 106G Moisture Resistance:

Mil-Std 202G Method 302 Condition B Insulation Resistance:

Mil-Std 202G Method 107G

Thermal Shock:

Salt Atmosphere (Corrosion): Mil-Std 202G Method 101E Condition B

Weathertight Ratings: IP16, IP18, IP66, IP67, IP68 per IEC60529. NEMA 250 (6P), CFR 46 Part 110.20

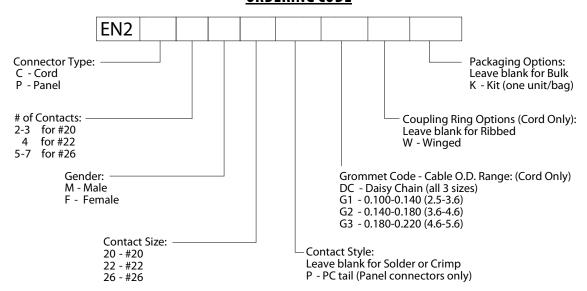
#### **MATERIAL SPECIFICATIONS**

Connector Housing: Thermoplastic, Black

Hex Nut: Thermoplastic, Black Coupling Ring: Thermoplastic, Black Cable Clamp: Thermoplastic, Black Thermoplastic, Black Handle (Back-Shell)

Insulator: Elastomer, Black Seal Grommet: Elastomer, Black Contacts: Copper Alloy, Plated

#### **ORDERING CODE**



Consult factory for Cable to Cable (Inline) type connectors.



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## **EN2™ SERIES CURRENT RATING TABLE**

Contacts	Wire (awg)	Current Rating (A) at Operating Temperature (°C)				
		45°C max	55°C max	65°C max	75°C max	85°C max
2 #20	20	7	6	5	4	3.5
	22	5.5	5	4	3	2.5
	24	5.5	5	4	3	2.5
	26	4	3.5	2.5	2	1
3 #20	20	6.5	5.5	4.5	3.5	2
	22	5	4.5	3.5	3	1.5
	24	5	4.5	3.5	3	1.5
	26	3	2.5	2	1.5	0.5
4 #22	20	5	4.5	3.5	3	1.5
	22	4.5	4	3	2	1
	24	4.5	4	3	2	1
	26	3	2.5	2	1.5	0.5
5-7 #26	26	3	2.5	2	1.5	1
	28	2.5	2	1.5	1	0.5
	30	2	1.5	1	0.5	0.5

## **EN2™ CONTACT CRIMPING TOOLS**

Handle	Description	Positioner	Contact Sizes	Wire Sizes
EN3CR	Crimp Hand Tool	EN2POS20	#20, #22	20, 22 AWG
		EN3POS26	#26	26, 28, 30 AWG
EN3CRAUTO	Pneumatic Crimp Tool	EN2POS20	#20, #22	20, 22 AWG
		EN3POS26	#26	26, 28, 30 AWG

# **EN2™ INSERTION / EXTRACTION TOOLS**

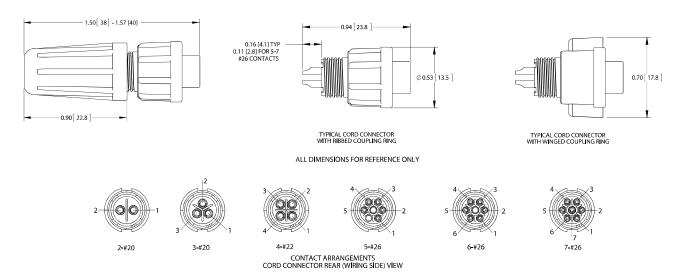
Part Number	Contact Sizes	Description		
EN3INS20	#20, #22	Insertion / Extraction Tool for 20, 22 AWG		
EN3INS26	#26	Insertion / Extraction Tool for 26, 28 & 30 AWG		

### **EN2™ ALTERNATE LARGER FRAME TOOL**

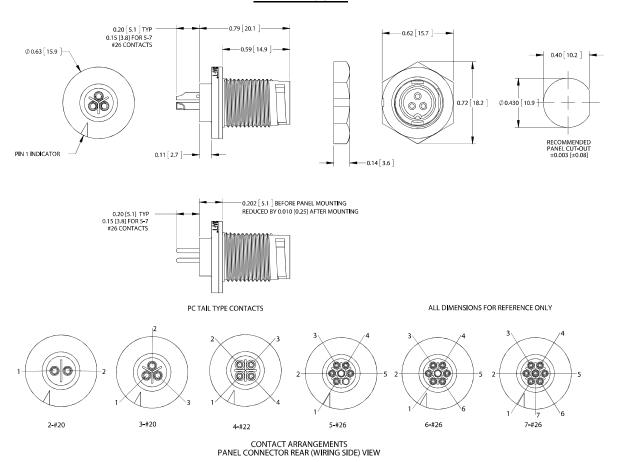
Handle	Description	Positioner	Contact Sizes	Wire Sizes
EN2CRL	Hand Tool	EN2POS20L	#20, #22	20-22-24-26 AWG
EN2CRAUTOL	Pneumatic Tool			

### **NEW PRODUCT BULLETIN 601**

### **CORD**



### **PANEL MOUNT**

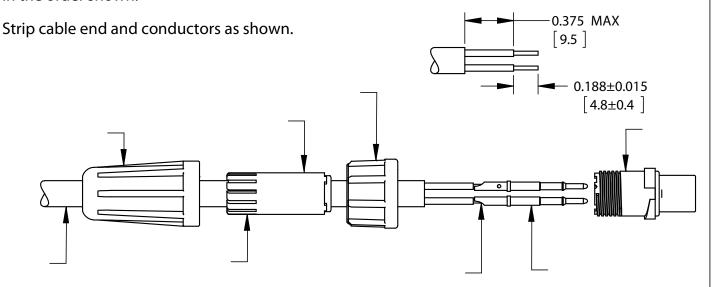


## **DUST CAP PART # 16295**

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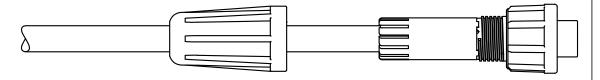
#### **EN2™ CORD CONNECTOR FIELD ASSEMBLY INSTRUCTIONS**

Feed the free end of cable through the handle, cable-clamp/grommet, and coupling ring in the order shown.



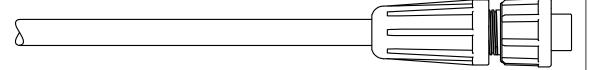
Soldering or crimping conductors to contacts is recommended before insertion into connector. If crimping, use hand or pneumatic crimp tool with crimp positioner per contact size. If soldering after contacts are inserted in the connector, limit exposure of contacts to soldering iron temperature to 4 sec. maximum. Soldering iron temperature should not exceed 650°F (343°C).

 $Insert\ wired\ contacts\ into\ connector\ housing\ using\ an\ insertion\ tool\ and\ per\ contacts\ arrangements.$ 



Align coupling ring over housing and bring forward.

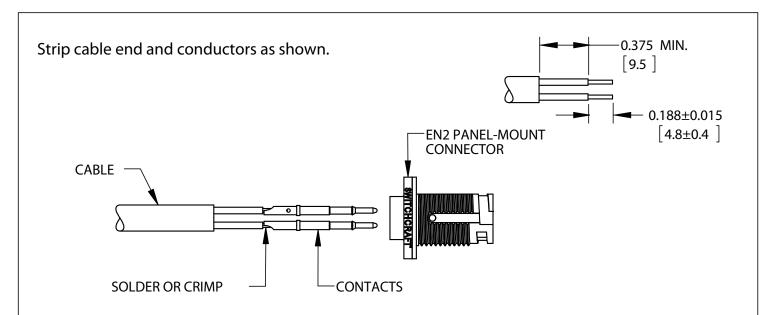
Align cable-clamp/grommet on the rear of housing. Make certain grommet is completely inside the cable-clamp in the final position.



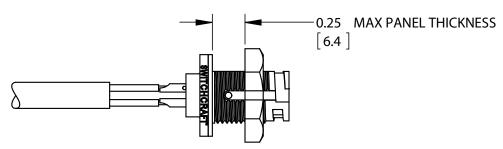
Bring forward and thread handle onto housing until tight. Do not exceed 2 in-lb torque.

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#### **EN2™ PANEL CONNECTOR FIELD ASSEMBLY INSTRUCTIONS**



Soldering or crimping conductors to contacts is recommended before insertion into connector. If crimping, use hand or pneumatic crimp tool with crimp positioner per contact size. If soldering after contacts are inserted in the connector, limit exposure of contacts to soldering iron temperature to 4 sec. maximum. Soldering iron temperature should not exceed 650°F (343°C).



Insert wired contacts into connector housing using an insertion tool and per contacts arrangements.

Align and install connector into panel cut-out. Tighten hex nut 5 -6 in-lb.