

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:

Operating Forces: **Back Shell Type:**

I ife. 600 insertion/withdrawal cycles minimum

Mil-Std 202G Method 201A

5-6 in/lb

8 lb maximum insertion. 0.25 lb minimum withdrawal

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: Insulation Resistance: $1000 \, M\Omega \, minimum$ Contact Resistance: $10 \text{ m}\Omega \text{ maximum}$

ENVIRONMENTAL SPECIFICATIONS

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

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

Thermal Shock: Mil-Std 202G Method 107G

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

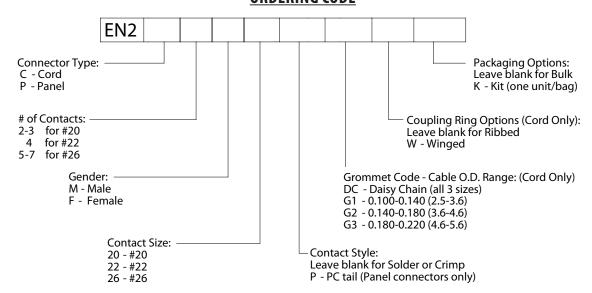
Handle (Back-Shell) Thermoplastic, Black

Insulator: Elastomer, Black

Seal Grommet: Elastomer, Black

Contacts: Copper Alloy, Plated

ORDERING CODE



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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	EN3CRAUTO Pneumatic Crimp Tool		#20, #22	20, 22 AWG
		EN3POS26	#26	26, 28, 30 AWG

EN2 INSERTION / EXTRACTION TOOLS

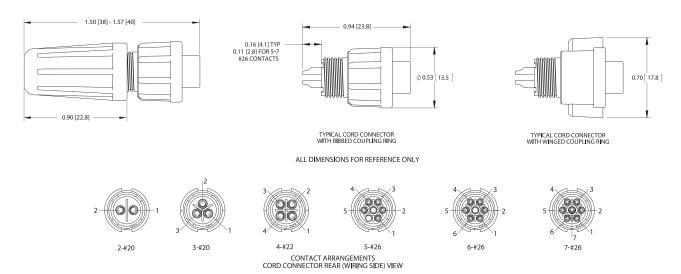
Part Number	Contact Sizes	Description	
EN3INS20	#20, #22	Insertion / Extraction Tool for 20, 22 AWG	
EN3INS26	#26	Insertion / Extraction Tool for 26, 28 & 30 AWG	

EN2 ALTERNATE LARGER FRAME TOOL

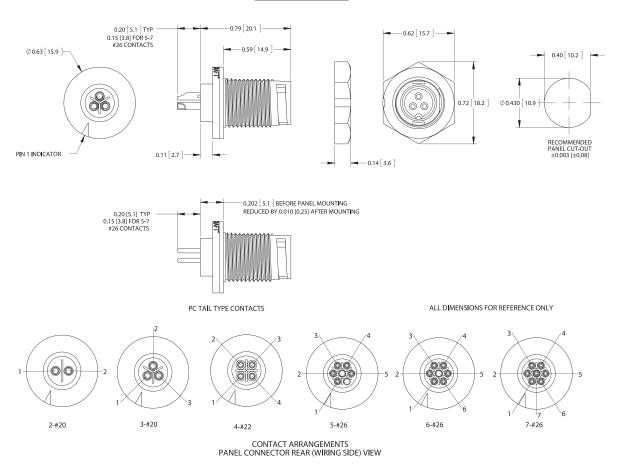
Handle	Description	Positioner	Contact Sizes	Wire Sizes
EN2CRL	Hand Tool	EN2POS20L	#20, #22	20-22-24-26 AWG
EN2CRAUTOL	Pneumatic Tool			

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CORD



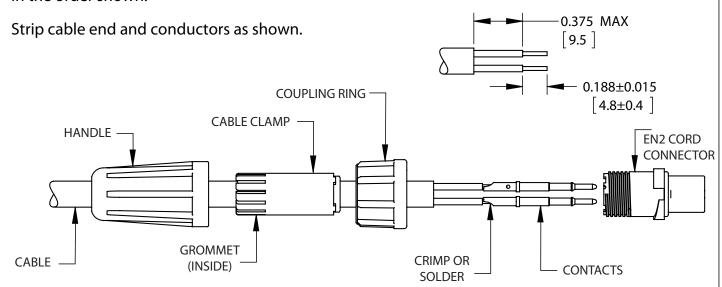
PANEL MOUNT



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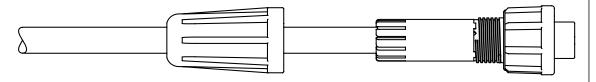
EN2 CORD CONNECTOR FIELD ASSEMBLY INSTRUCTIONS

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.

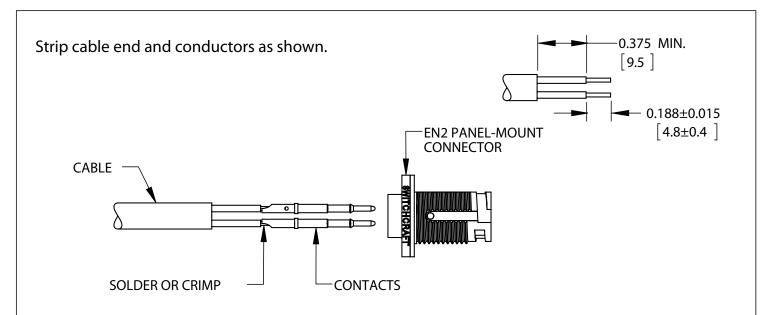
Align cable-clamp/grommet on the rear of housing. Make certain grommet is completely inside the cable-clamp in the final position.



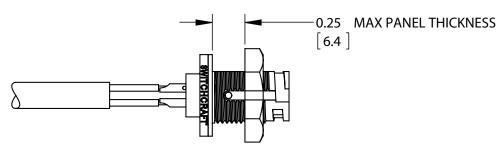
Bring forward and thread handle onto housing until tight. Do not exceed 2 in-lb torque.

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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.

Mouser Electronics

Authorized Distributor

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Switchcraft: EN2P4M22PK