

## EN2® SERIES WEATHERTIGHT CONNECTORS

NEW PRODUCT BULLETIN 601

### FEATURES & BENEFITS

- Sealed to IP68 NEMA 250 (6P)
- Available in standard or winged coupling ring
- Copper Alloy, plated contacts
- 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



# SWITCHCRAFT®

A H E I C O C O M P A N Y



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### SPECIFICATIONS

#### **MECHANICAL SPECIFICATIONS**

Life:	600 insertion/withdrawal cycles minimum
Vibration:	Mil-Std 202G Method 201A
Hex Nut Torque:	5-6 in/lb
Operating Forces:	8 lb maximum insertion. 0.25 lb minimum withdrawal
Back Shell Type:	Threaded Handle

#### **ELECTRICAL SPECIFICATIONS**

Voltage Rating:	250 V AC/DC for 2 contact arrangement. 125 V AC/DC for 3-7 contact arrangements
Current Rating:	Refer to current rating table
Insulation Resistance:	1000 MΩ minimum
Contact Resistance:	10 mΩ maximum

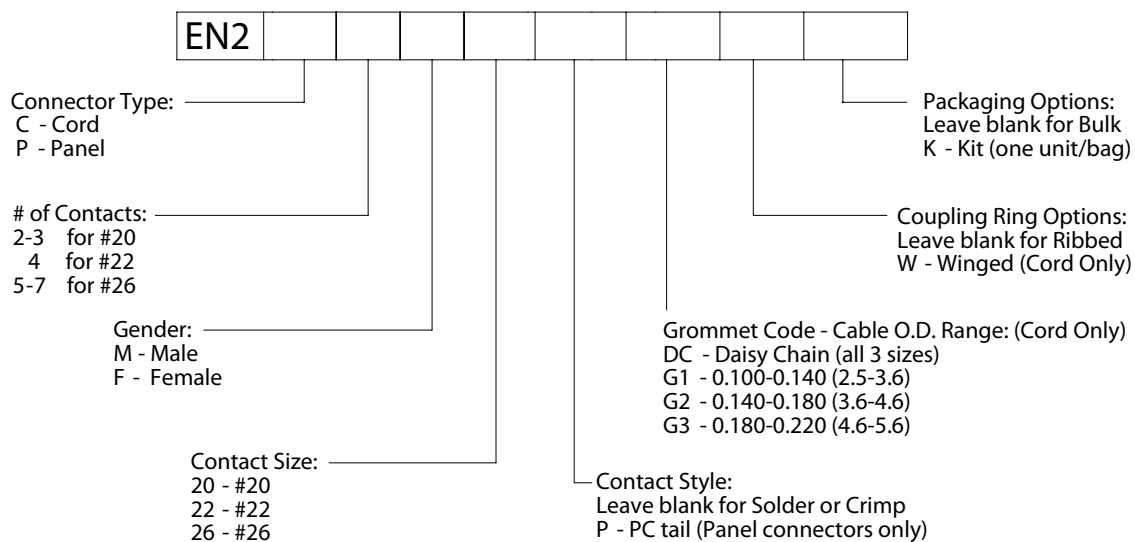
#### **ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature Limits:	-40°C to +85°C (-40°F to +185°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



Consult factory for In-Line 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® MANUAL CONTACT CRIMPING TOOL

Handle	Description	Positioner	Wire Sizes
EN3CR	Crimp Hand Tool	EN3POS16	16 AWG
		EN3POS20	20, 22 AWG
		EN3POS26	26, 28, 30 AWG
EN3CRAUTO	Pneumatic Crimp Tool	EN3POS16	16 AWG
		EN3POS20	20, 22 AWG
		EN3POS26	26, 28, 30 AWG

### EN2® INSERTION / EXTRACTION TOOLS

Part Number	Description
EN3INS16	Insertion / Extraction Tool for 16 AWG
EN3INS20	Insertion / Extraction Tool for 20 AWG
EN3INS26	Insertion / Extraction Tool for 26, 28 & 30 AWG

### EN2® ALTERNATE LARGER FRAME TOOL

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

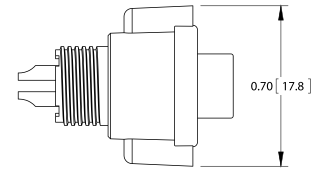
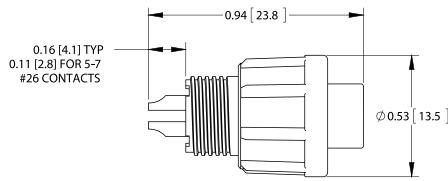
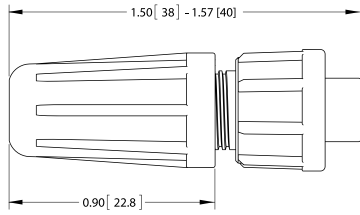


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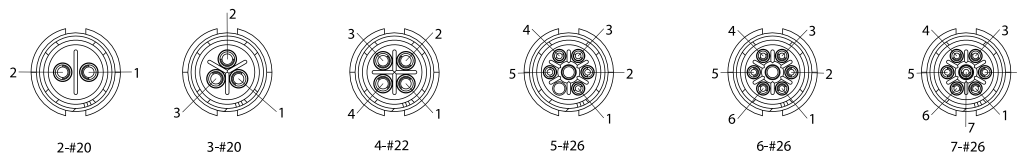
### CORD



TYPICAL CORD CONNECTOR WITH RIBBED COUPLING RING

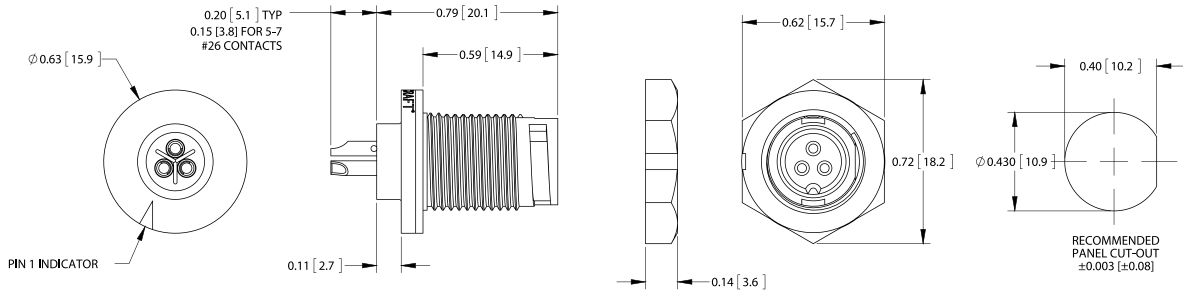
TYPICAL CORD CONNECTOR WITH WINGED COUPLING RING

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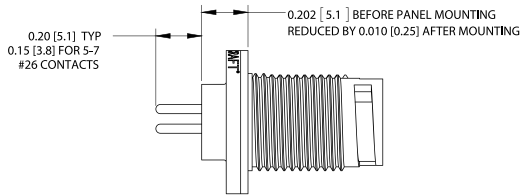


CONTACT ARRANGEMENTS  
CORD CONNECTOR REAR (WIRING SIDE) VIEW

### PANEL MOUNT

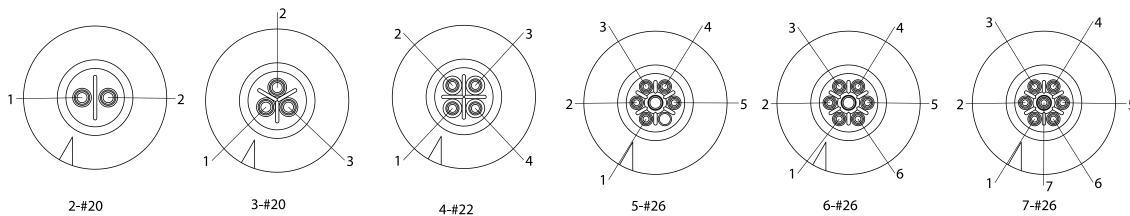


RECOMMENDED  
PANEL CUT-OUT  
±0.003 [±0.08]



PC TAIL TYPE CONTACTS

ALL DIMENSIONS FOR REFERENCE ONLY



CONTACT ARRANGEMENTS  
PANEL CONNECTOR REAR (WIRING SIDE) VIEW

### DUST CAP PART # 16295



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