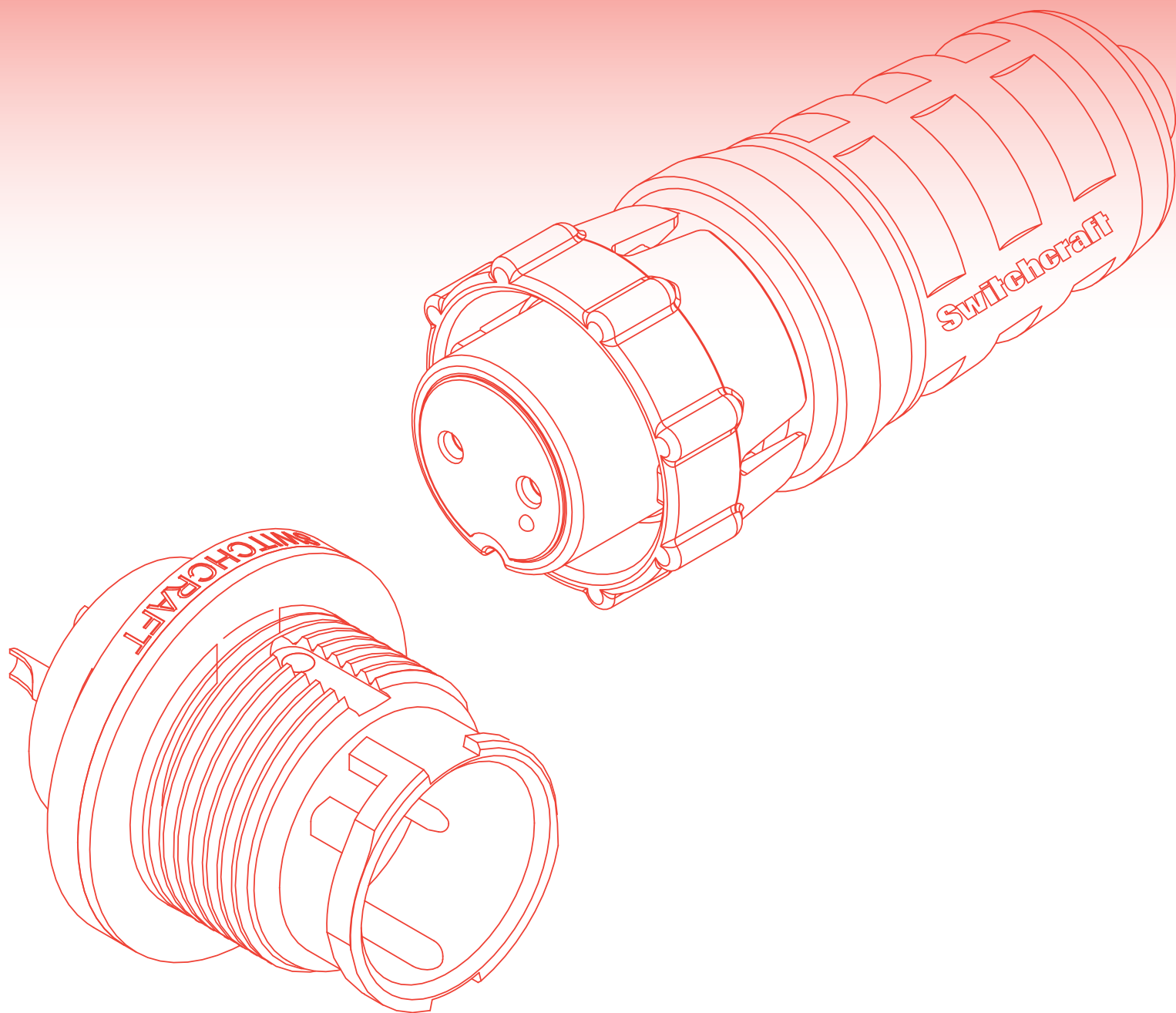




## EN3® SERIES WEATHERTIGHT CONNECTORS

NEW PRODUCT BULLETIN 602

# SWITCHCRAFT®

A HEICO COMPANY



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# EN3® SERIES WEATHERTIGHT CONNECTORS

NEW PRODUCT BULLETIN 602



## FEATURES & BENEFITS

- Sealed to IP68 NEMA 250 (6P)
- Patented grommet & o-ring free design
- Available in ribbed or winged coupling ring
- Cable, panel & cable to cable options
- Gold plated contacts standard
- Solder, crimp & PC contact options
- Straight & right angle PC contact panel connectors

## 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

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| Life:                  | Minimum 600 insertion / withdrawal cycles                       |
| Vibration:             | Mil-Std 202 Method 201                                          |
| Shock:                 | Mil-Std 202 Method 213B, condition K                            |
| Hex Nut Torque:        | All series hex nut to withstand 8-10 in-lb tightening torque.   |
| Coupling Locking Style | Bayonet with ribbed coupling nut (winged coupling nut optional) |
| Back Shell Style:      | Boot                                                            |

#### ELECTRICAL SPECIFICATIONS

|                        |                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage Rating:        | 250 V AC/DC                                                                                                                                                                                                                                |
| Current Rating:        | 13.0 A – 2 or 3 #16 contacts accepts 16 through 18 AWG<br>7.5 A – 2 through 6 #20 contacts accepts 20 through 22 AWG<br>6.5 A – 7 or 8 #20 contacts accepts 20 through 22 AWG<br>3 A – 9 through 18 #26 contacts accepts 26 through 28 AWG |
| Insulation Resistance: | 100 MΩ min                                                                                                                                                                                                                                 |
| Contact Resistance:    | 20 mΩ max                                                                                                                                                                                                                                  |

#### ENVIRONMENTAL SPECIFICATIONS

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Operating Temperature Rating: | -40°C to +65°C (-40°F to +149°F)                                                                    |
| Moisture Resistance:          | Mil-Std 202 Method 106F                                                                             |
| Insulation Resistance:        | Mil-Std 202 Method 302 condition B                                                                  |
| Thermal Shock:                | Mil-Std 202 Method 107G                                                                             |
| Salt Atmosphere (Corrosion):  | Mil-Std 202 Method 101D condition B                                                                 |
| Weathertight:                 | IEC 60529 IP16/IP18<br>IEC 60529 IP66/IP68<br>IEC 60529 IP68<br>NEMA 250 (6P)<br>CFR 46 Part 110.20 |

#### MATERIAL SPECIFICATIONS

|                                        |                                      |
|----------------------------------------|--------------------------------------|
| Panel connector shells & locking disk: | Thermoplastic UL94V-0                |
| Connector shell interior:              | Elastomeric, Black UL 94HB           |
| Contacts:                              | Copper Alloy, Gold over Nickel Plate |

#### MOLDED CABLE ASSEMBLIES

|               |                                                                              |
|---------------|------------------------------------------------------------------------------|
| Weathertight: | IEC 60529 IP66/IP68<br>IEC 60529 IP68<br>NEMA 250 (6P)<br>CFR 46 Part 110.20 |
|---------------|------------------------------------------------------------------------------|

#### CERTIFICATIONS

UL File E319753 ; 2-8 pin cord, in-line and panel only

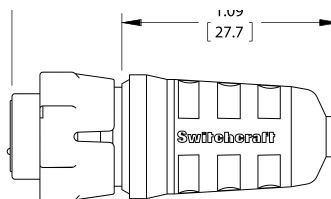
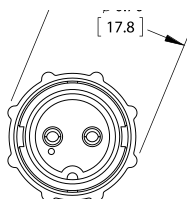


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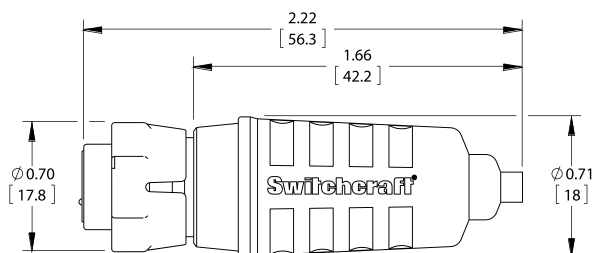
# EN3® SERIES WEATHERTIGHT CONNECTORS

## NEW PRODUCT BULLETIN 602

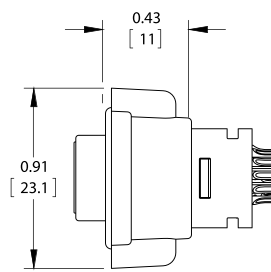
### CORD CONNECTORS



EN3 SERIES 2-18 POSITION  
STANDARD  
CABLE CLAMP & BOOT

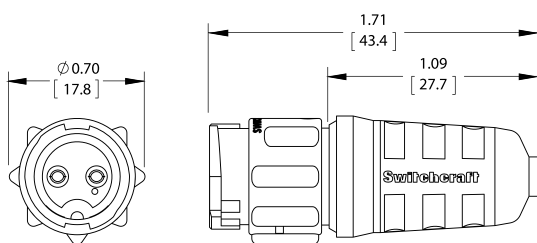


OPTION "L"  
EN3 SERIES 2-18 POSITION  
LARGE CABLE CLAMP & BOOT

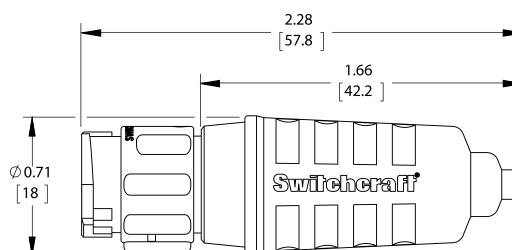


OPTION "W"  
EN3 SERIES 2-18 POSITION  
WINGED COUPLING RING

### CABLE TO CABLE CONNECTORS

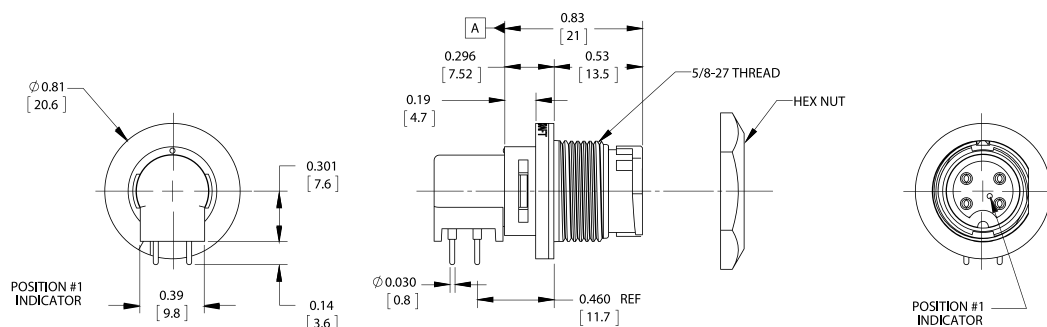


EN3 SERIES 2-18 POSITION  
STANDARD  
CABLE CLAMP & BOOT  
INLINE CONNECTOR



OPTION "L"  
EN3 SERIES 2-18 POSITION  
LARGE CABLE CLAMP & BOOT  
INLINE CONNECTOR

### EN3® RIGHT ANGLE 2-8 POSITION MOLDED CONNECTORS

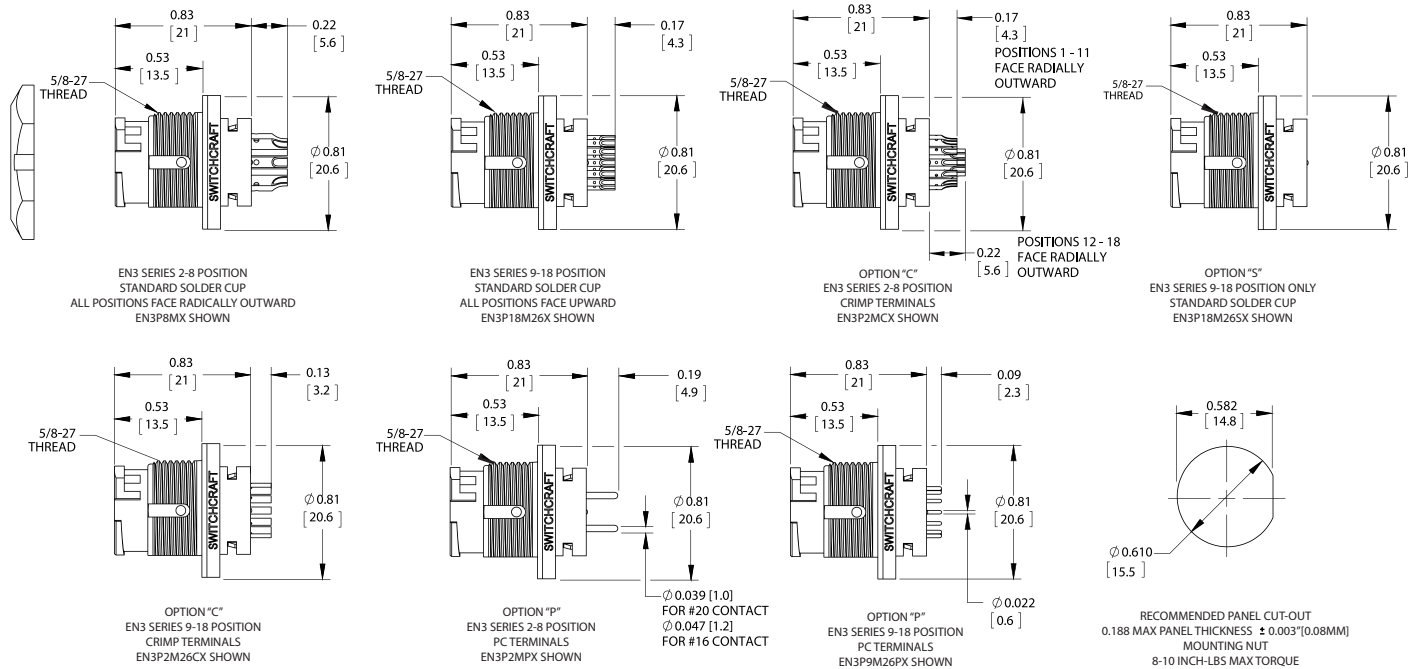


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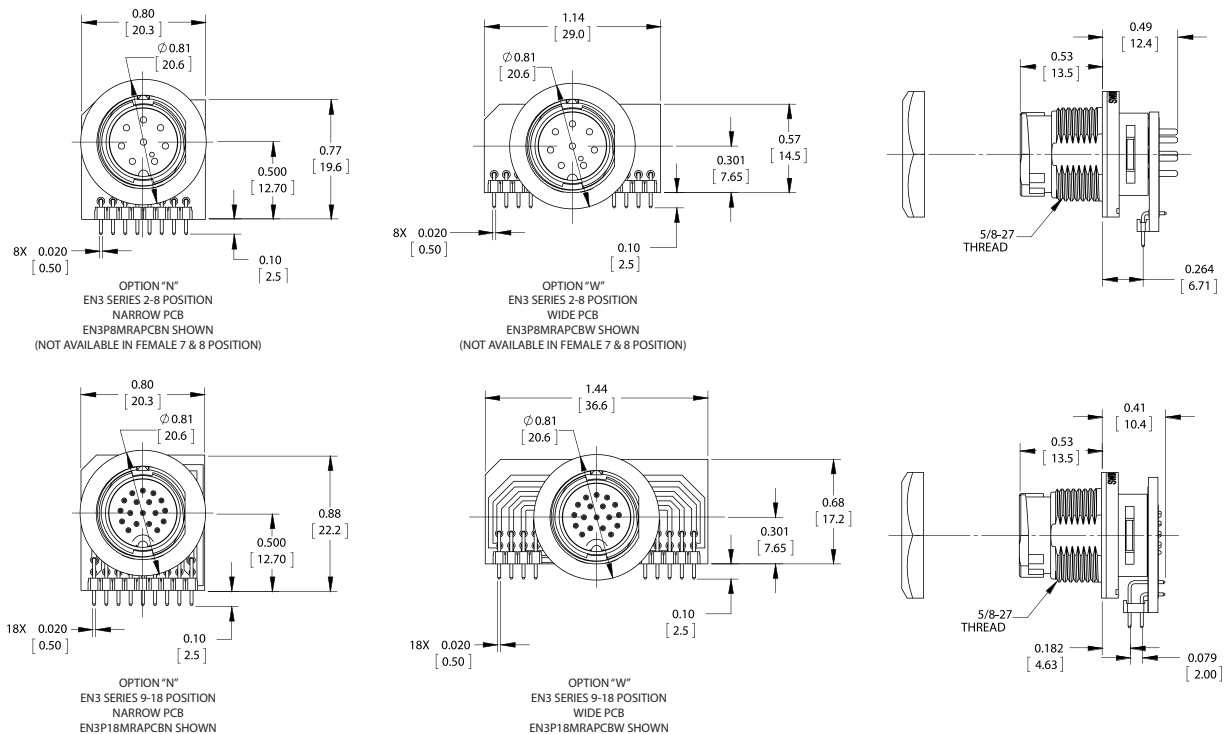
# EN3® SERIES WEATHERTIGHT CONNECTORS

## NEW PRODUCT BULLETIN 602

### PANEL CONNECTORS



### RIGHT ANGLE PC BOARDS 2-18 CONTACT PANEL CONNECTORS

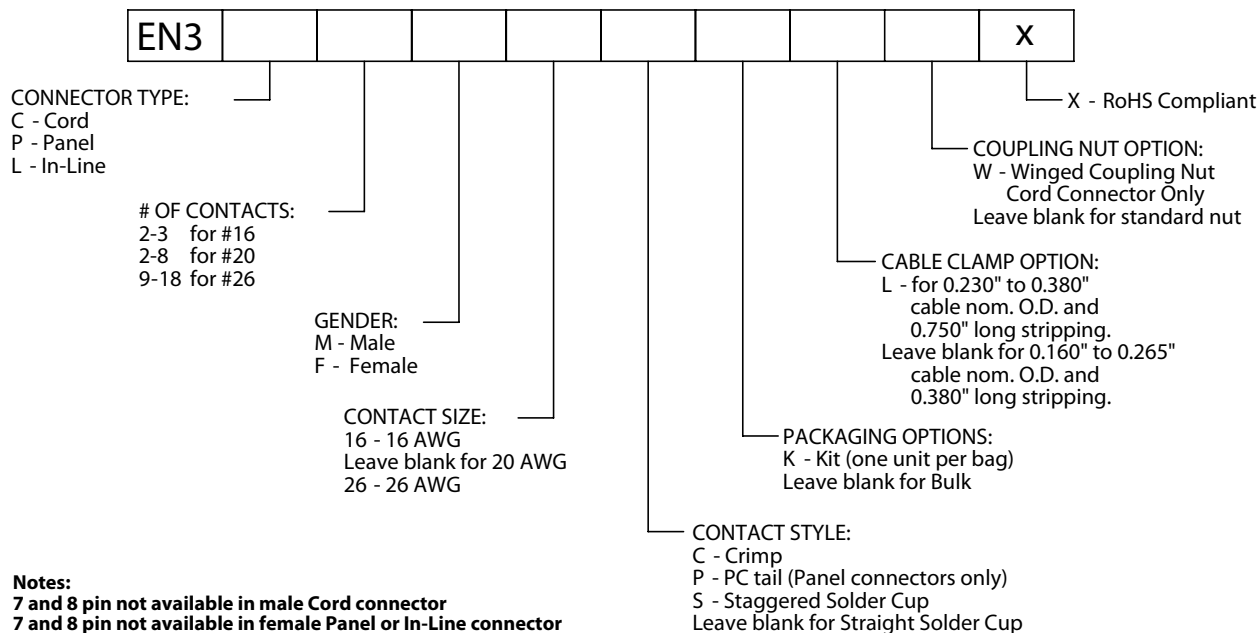


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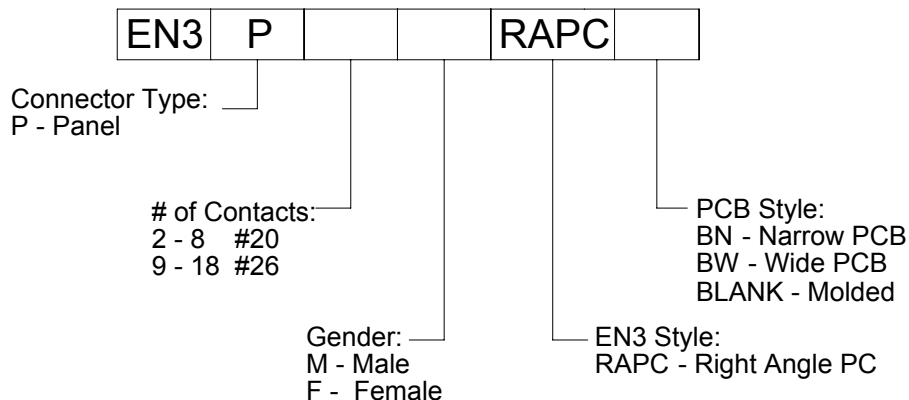
# EN3® SERIES WEATHERTIGHT CONNECTORS

## NEW PRODUCT BULLETIN 602

### EN3® ORDERING CODE



### EN3® RIGHT ANGLE PC BOARD MOUNT 2-18 CONTACT ORDERING CODE



**Notes:**  
7 and 8 pin not available in female Panel connector

### EN3® SERIES ACCESSORIES

|           |                                                                                  |
|-----------|----------------------------------------------------------------------------------|
| EN3 BOOT  | EN3 SERIES, REGULAR BOOT FOR CABLE DIAMETERS 0.160"-0.265"                       |
| EN3 BOOTL | EN3 SERIES, LARGE BOOT FOR CABLE DIAMETERS 0.230"-0.380"                         |
| EN3CAP    | EN3 HARSH ENVIRONMENT PANEL OR CABLE END CAP RATED TO IP68, RUBBER LANYARD STYLE |
| EN3CAPC   | CORD PLUG CAP FOR EN3 SERIES                                                     |
| EN3CLAMPX | EN3 HARSH ENVIRONMENT CABLE CLAMP                                                |
| EN3IPCAPX | EN3 SERIES, IP68 RATED PANEL OR INLINE CAP WITH LOCK RING                        |
| EN3NUT    | EN3 HARSH ENVIRONMENT HARDWARE-NUT                                               |
| EN3PQCA   | EN3 PANEL ADAPTOR, FOR USE WITH EN3 QUICK CONNECT/ DISCONNECT CABLE ASSEMBLIES   |



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