

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

NEW PRODUCT BULLETIN 597

# SWITCHCRAFT®

A HEICO COMPANY



Please visit [www.switchcraft.com](http://www.switchcraft.com) for the most up-to-date product specifications. Made in USA.

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## FEATURES & BENEFITS

- Sealed to IP68 NEMA 250 (6P)
- O-ring free design
- Easily mounts to PC boards
- Narrow or wide versions to fit your applications
- Gold plated contacts standard

## 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:	Mil-Std 202G Method 201A
Life:	600 insertion/withdrawal cycles minimum
Hex Nut Torque:	8-10 in/lb tightening torque

#### Electrical Specifications

Dielectric Withstanding Voltage:	Tested at 500 VAC
Insulation Resistance:	100 MΩ minimum at 77°F
Contact Resistance (2-8 #20 contact):	15 mΩ maximum initial 30 mΩ maximum after environmental
Contact Resistance (9-18 #26 contact):	30 mΩ maximum initial 50 mΩ maximum after environmental
Current Rating:	2.0 A (9-18 #26 contact) 4.0 A (5-8 #20 contact) 5.0 A (2-4 #20 contact)

#### Environmental Specifications

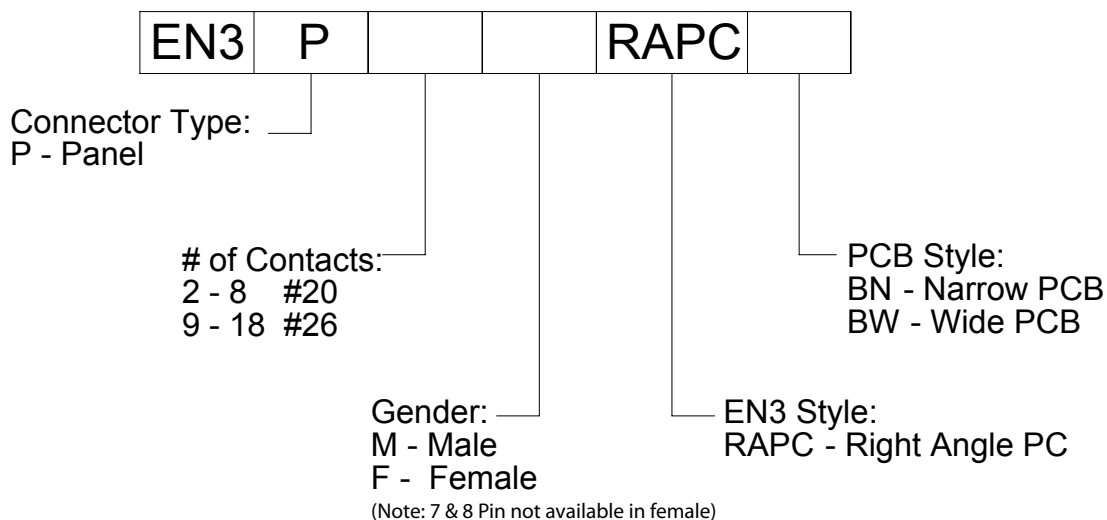
Temperature Rating:	-40°C to +65°C (-40°F to +149°F)
Moisture Resistance:	Mil-Std 202G Method 106G
Insulation Resistance:	Mil-Std 202G Method 302
Thermal Shock:	Mil-Std 202G Method 107G
Salt Spray:	Mil-Std 202G Method 101E

#### Material Specifications

Panel Connector Shell, Locking Disk:	Thermoplastic, UL94V-0
Connector Shell Interior:	Thermoplastic Elastomer, UL94HB
Contacts:	Copper Alloy, Gold over Nickel Plate
PCB:	FR-4
Header Insulator:	Thermoplastic, UL94V-0

#### Product Ratings:

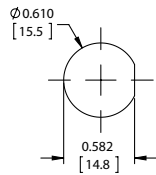
IEC 60529 IP16/IP18. IEC 60529 IP66. IEC 60529 IP68 24 hours at 2 meters of water.  
NEMA 250 6P 24 hours at 2 meters of water. CFR 46 Part 110.20



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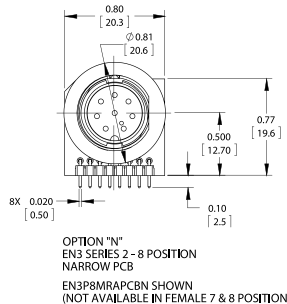
## NEW PRODUCT BULLETIN 597

### EN3 2-8 PIN RIGHT-ANGLE NARROW PCB PANEL CONNECTOR

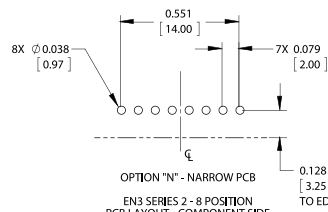
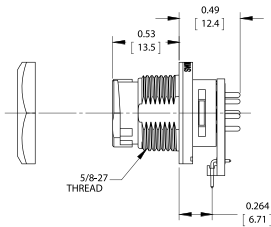


RECOMMENDED  
PANEL CUT-OUT  
0.188 MAX PANEL  
THICKNESS

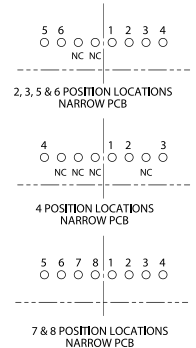
MOUNTING NUT  
8-10 INCH-LBS  
MAX TORQUE



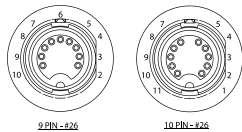
OPTION "N"  
EN3 SERIES 2 - 8 POSITION  
NARROW PCB  
EN3P8MRAPCBN SHOWN  
(NOT AVAILABLE IN FEMALE 7 & 8 POSITION)



NOTE: ALL HOLES REQUIRED REGARDLESS  
OF NUMBER OF POSITIONS OF CONNECTOR

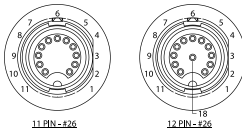


### EN3 2-8 PIN RIGHT-ANGLE WIDE PCB PANEL CONNECTOR



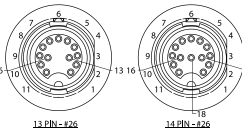
9 PIN - #26

10 PIN - #26



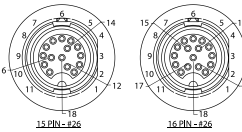
11 PIN - #26

12 PIN - #26



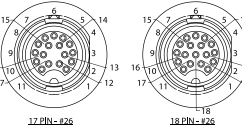
13 PIN - #26

14 PIN - #26



15 PIN - #26

16 PIN - #26

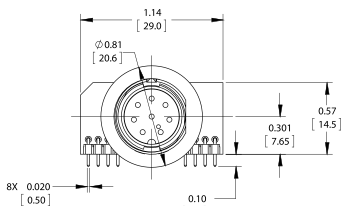


17 PIN - #26

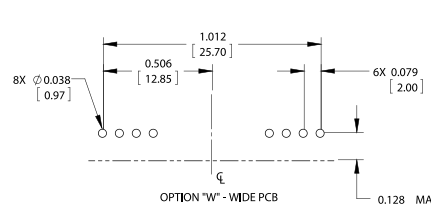
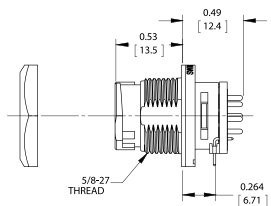
18 PIN - #26

EN3 9-18 PIN LOCATIONS  
FRONT VIEW OF CONNECTOR  
(MATING SIDE)

NUMBERS SHOWN FOR REFERENCE.  
THEY DO NOT APPEAR ON  
ACTUAL PART



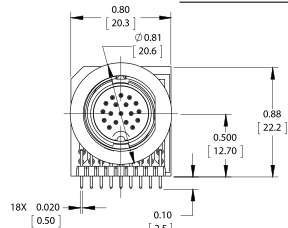
OPTION "W"  
EN3 SERIES 2 - 8 POSITION  
WIDE PCB  
EN3P8MRAPCBW SHOWN  
(NOT AVAILABLE IN FEMALE 7 & 8 POSITION)



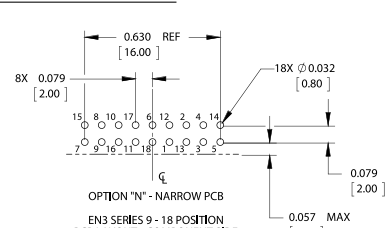
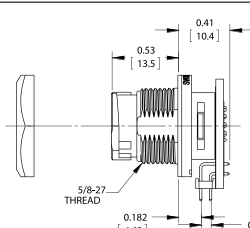
NOTE: ALL HOLES REQUIRED REGARDLESS  
OF NUMBER OF POSITIONS OF CONNECTOR



### EN3 9-18 PIN RIGHT-ANGLE NARROW PCB PANEL CONNECTOR

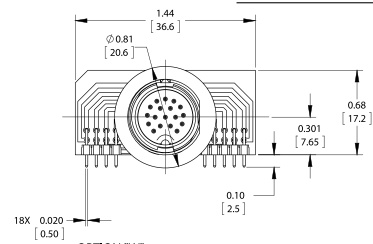


OPTION "N"  
EN3 SERIES 9 - 18 POSITION  
NARROW PCB  
EN3P18MRAPCBN SHOWN

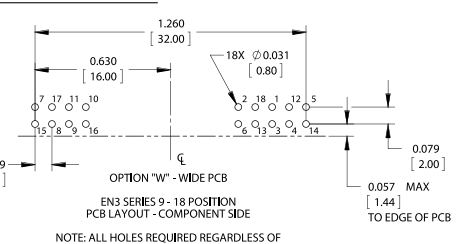
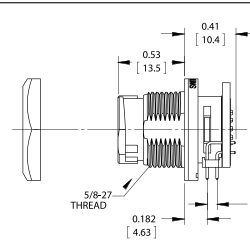


NOTE: ALL HOLES REQUIRED REGARDLESS  
OF NUMBER OF POSITIONS OF CONNECTOR  
SEE EN3 9-18 PIN LOCATIONS

### EN3 9-18 PIN RIGHT-ANGLE WIDE PCB PANEL CONNECTOR



OPTION "W"  
EN3 SERIES 9 - 18 POSITION  
WIDE PCB  
EN3P18MRAPCBW SHOWN



NOTE: ALL HOLES REQUIRED REGARDLESS  
OF NUMBER OF POSITIONS OF CONNECTOR  
SEE EN3 9-18 PIN LOCATIONS

All dimensions are for reference only.



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