

EN3® RIGHT ANGLE PC BOARD MOUNT 2-18 CONTACT

NEW PRODUCT BULLETIN 597

SWITCHCRAFT®

A HEICO COMPANY



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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



Connector Type: P
P - Panel

of Contacts:
2 - 8 #20
9 - 18 #26

Gender:
M - Male
F - Female

(Note: 7 & 8 Pin not available in female)

PCB Style:
BN - Narrow PCB
BW - Wide PCB

EN3 Style:
RAPC - Right Angle PC

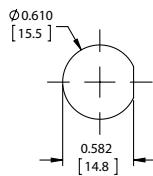


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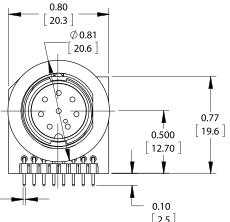
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EN3 2-8 PIN RIGHT-ANGLE NARROW PCB PANEL CONNECTOR

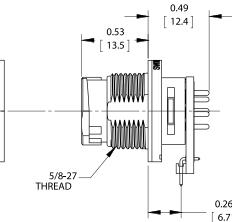


RECOMMENDED
PANEL CUT-OUT
0.188 MAX PANEL
THICKNESS

MOUNTING NUT
8-10 INCH-LBS
MAX TORQUE

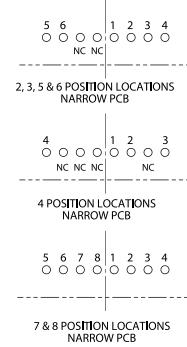


OPTION "N"
EN3 SERIES 2-8 POSITION
NARROW PCB
EN3P8MRAPCBN SHOWN
(NOT AVAILABLE IN FEMALE 7 & 8 POSITION)

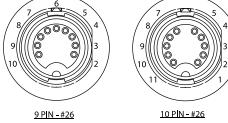


OPTION "N" - NARROW PCB
EN3 SERIES 2-8 POSITION
PCB LAYOUT - COMPONENT SIDE

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

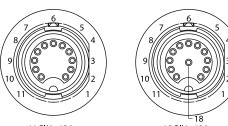


EN3 2-8 PIN RIGHT-ANGLE WIDE PCB PANEL CONNECTOR



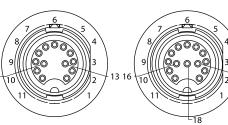
9 PIN #26

10 PIN #26



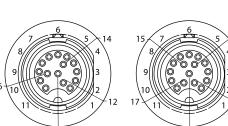
11 PIN #26

12 PIN #26



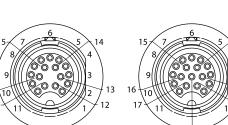
13 PIN #26

14 PIN #26



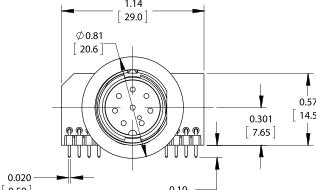
15 PIN #26

16 PIN #26

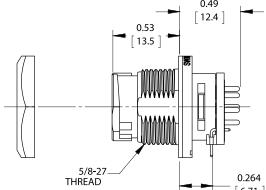


EN3 9-18 PIN LOCATIONS
FRONT VIEW OF CONNECTOR
(MATING SIDE)

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

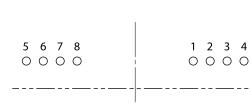


OPTION "W"
EN3 SERIES 2-8 POSITION
WIDE PCB
EN3P8MRAPCBW SHOWN
(NOT AVAILABLE IN FEMALE 7 & 8 POSITION)

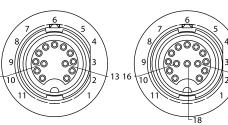


OPTION "W" - WIDE PCB
EN3 SERIES 2-8 POSITION
PCB LAYOUT - COMPONENT SIDE

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

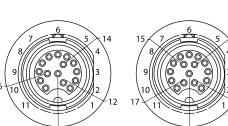


EN3 9-18 PIN RIGHT-ANGLE NARROW PCB PANEL CONNECTOR



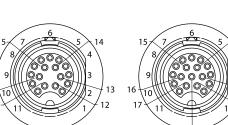
13 PIN #26

14 PIN #26



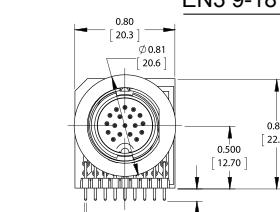
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16 PIN #26

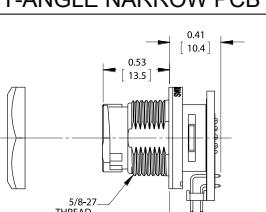


17 PIN #26

18 PIN #26

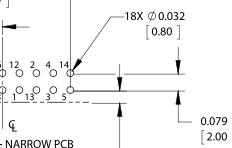


OPTION "N"
EN3 SERIES 9-18 POSITION
NARROW PCB
EN3P18MRAPCBN SHOWN

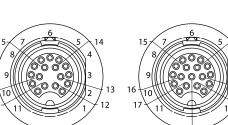


OPTION "N" - NARROW PCB
EN3 SERIES 9-18 POSITION
PCB LAYOUT - COMPONENT SIDE

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

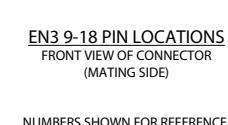


EN3 9-18 PIN RIGHT-ANGLE WIDE PCB PANEL CONNECTOR



13 PIN #26

14 PIN #26



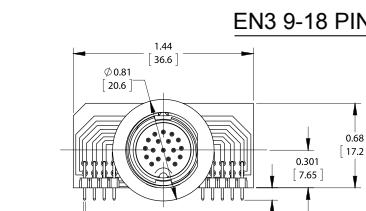
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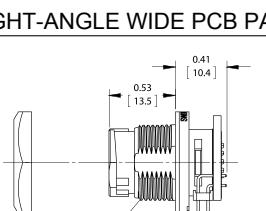


17 PIN #26

18 PIN #26

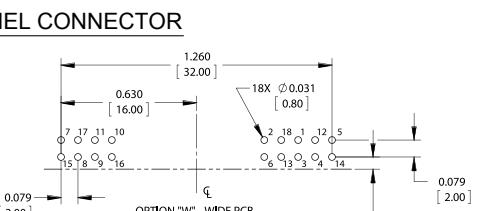


OPTION "W"
EN3 SERIES 9-18 POSITION
WIDE PCB
EN3P18MRAPCBW SHOWN



OPTION "W" - WIDE PCB
EN3 SERIES 9-18 POSITION
PCB LAYOUT - COMPONENT SIDE

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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