

EN3[®]

0.71" [18MM] OD 2-18 CONTACTS



CABLE END - SOCKET
MATES WITH PANEL MOUNT AND
CABLE TO CABLE



CABLE END - PIN
MATES WITH PANEL MOUNT AND
CABLE TO CABLE



CABLE TO CABLE / INLINE - PIN
MATES WITH
CABLE END



PANEL MOUNT - PIN
MATES WITH
CABLE END



**PANEL MOUNT -
SOCKET RIGHT ANGLE**
MATES WITH CABLE END



**PANEL MOUNT -
RIGHT ANGLE PCB**
MATES WITH CABLE END



**QUICK DISCONNECT
CABLE END**



**MOLDED
CABLE END ASSEMBLY**



**MOLDED
RIGHT ANGLE ASSEMBLY**



DUST CAP FOR CABLE END
P/N - EN3CAPC



EN3 CAP
P/N - EN3CAP



IP RATED LOCKING CAP
P/N - EN3IPCAPX

SPECIFICATIONS**Mechanical Specifications**

Life:	600 insertion / withdrawal cycles minimum
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 available)
Back Shell Style:	Boot
Conductor Sizes:	#16 contacts accepts 16 through 18 AWG #20 contacts accepts 20 through 22 AWG #26 contacts accepts 26 through 28 AWG

Electrical Specifications

Voltage Rating:	250 V AC/DC
Current Rating:	See current rating table on page 109
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 IEC 60529 IP66/IP68 IEC 60529 IP68 NEMA 250 (6P) 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 IEC 60529 IP68 NEMA 250 (6P) CFR 46 Part 110.20
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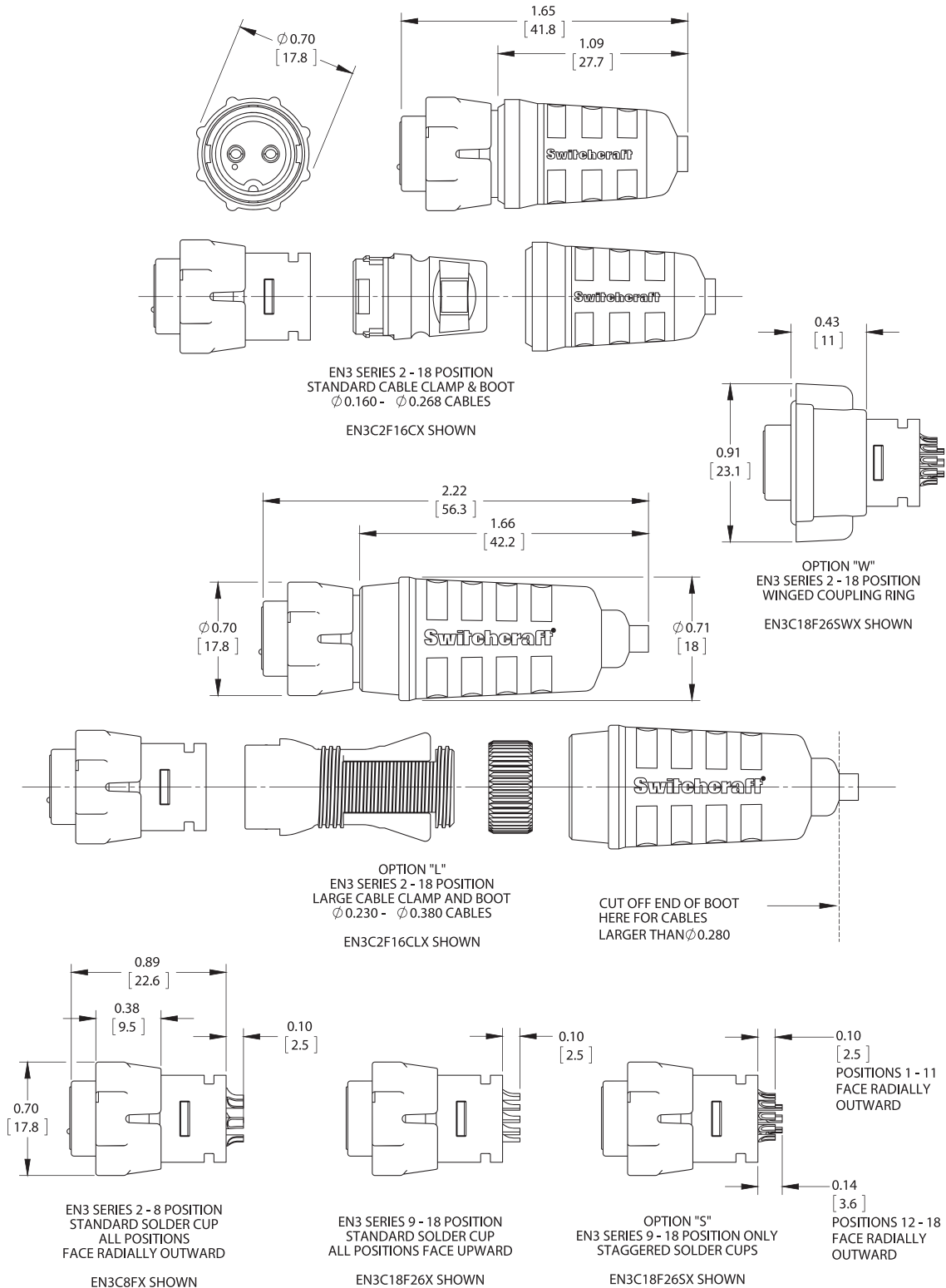
Certifications:

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

Consult factory for optional colors and materials

NOTE: Seal grommet provides an integrated O-ring seal for the connector assembly instead of a separate O-ring.

CORD CONNECTORS

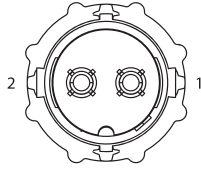


All dimensions are for reference only. Units shown: in[mm].

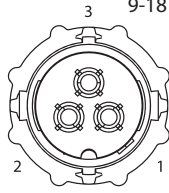
2-18 POSITION CORD CONNECTORS

Rear View (Wiring Side)

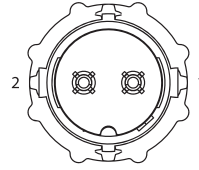
9-18 Position identification numbers denote position used in 18 position layout



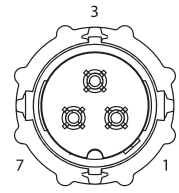
2 POSITION
#16 PIN & SOCKET CONTACT



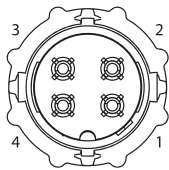
3 POSITION
#16 PIN & SOCKET CONTACT



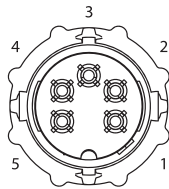
2 POSITION
#20 PIN & SOCKET CONTACT



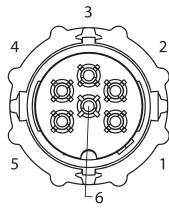
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#20 PIN & SOCKET CONTACT



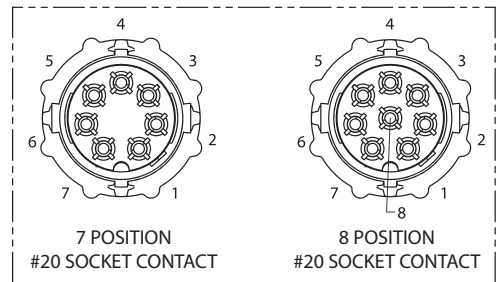
4 POSITION
#20 PIN & SOCKET CONTACT



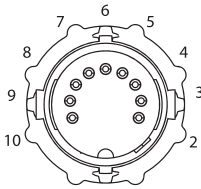
5 POSITION
#20 PIN & SOCKET CONTACT



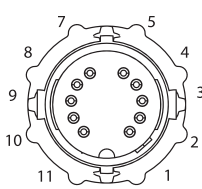
6 POSITION
#20 PIN & SOCKET CONTACT



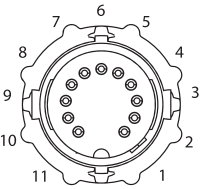
7 & 8 POSITION NOT AVAILABLE IN MALE CORD CONNECTORS



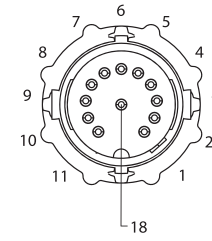
9 POSITION
#26 PIN & SOCKET CONTACT



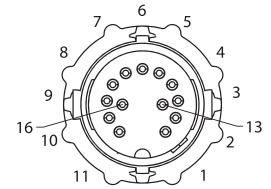
10 POSITION
#26 PIN & SOCKET CONTACT



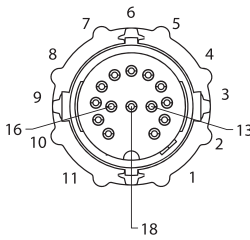
11 POSITION
#26 PIN & SOCKET CONTACT



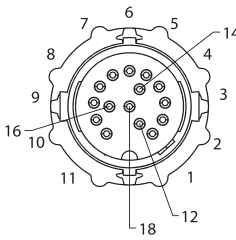
12 POSITION
#26 PIN & SOCKET CONTACT



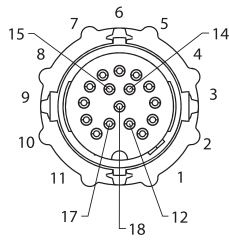
13 POSITION
#26 PIN & SOCKET CONTACT



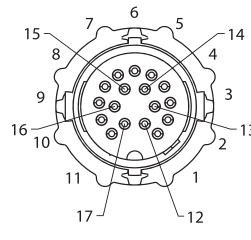
14 POSITION
#26 PIN & SOCKET CONTACT



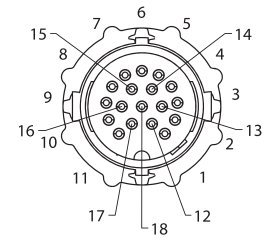
15 POSITION
#26 PIN & SOCKET CONTACT



16 POSITION
#26 PIN & SOCKET CONTACT



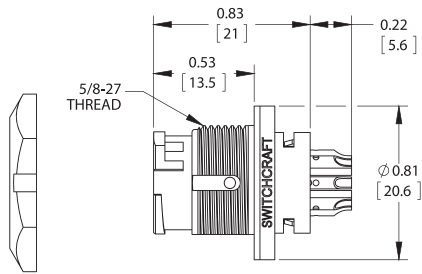
17 POSITION
#26 PIN & SOCKET CONTACT



18 POSITION
#26 PIN & SOCKET CONTACT

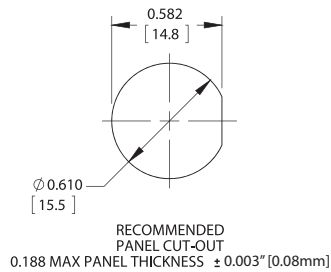
All dimensions are for reference only. Units shown: in[mm].

EN3® PANEL CONNECTORS



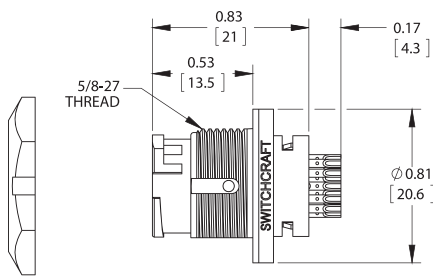
EN3 SERIES 2 - 8 POSITION
STANDARD SOLDER CUP
ALL POSITIONS FACE RADIALLY OUTWARD

EN3P8MX SHOWN



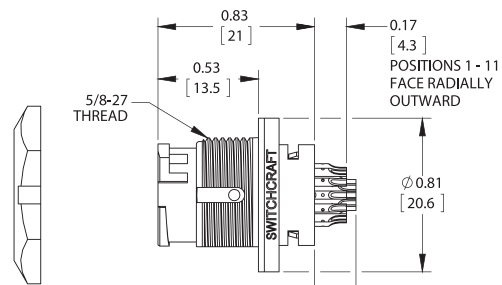
RECOMMENDED
PANEL CUT-OUT
0.188 MAX PANEL THICKNESS ± 0.003" [0.08mm]

MOUNTING NUT
8 - 10 INCH-LBS MAX TORQUE



EN3 SERIES 9 - 18 POSITION
STANDARD SOLDER CUP
ALL POSITIONS FACE UPWARD

EN3P18M26X SHOWN



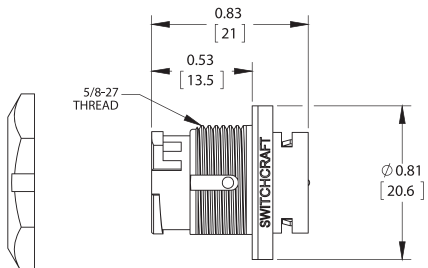
OPTIONS "S"
EN3 SERIES 9 - 18 POSITION ONLY
STAGGERED SOLDER CUP

EN3P18M26SX SHOWN

POSITIONS 1 - 11
FACE RADIALLY
OUTWARD

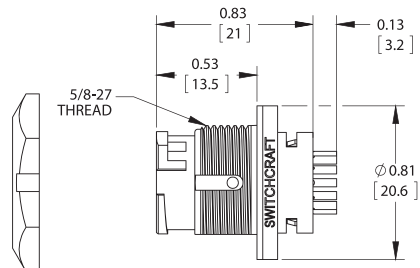
Ø 0.81
[20.6]

POSITIONS 12 - 18
FACE RADIALLY
OUTWARD



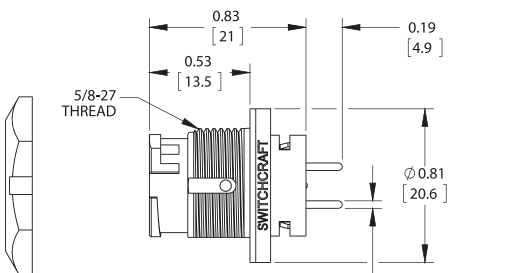
OPTION "C"
EN3 SERIES 2 - 8 POSITION
CRIMP TERMINALS

EN3P2MCX SHOWN



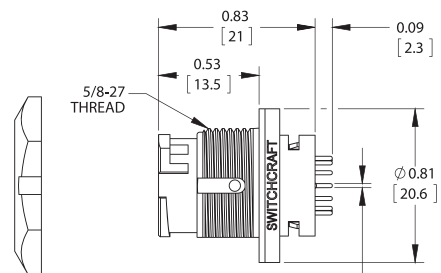
OPTION "C"
EN3 SERIES 9 - 18 POSITION
CRIMP TERMINALS

EN3P9M26CX SHOWN



OPTION "P"
EN3 SERIES 2 - 8 POSITION
PC TERMINALS

EN3P2MPX SHOWN

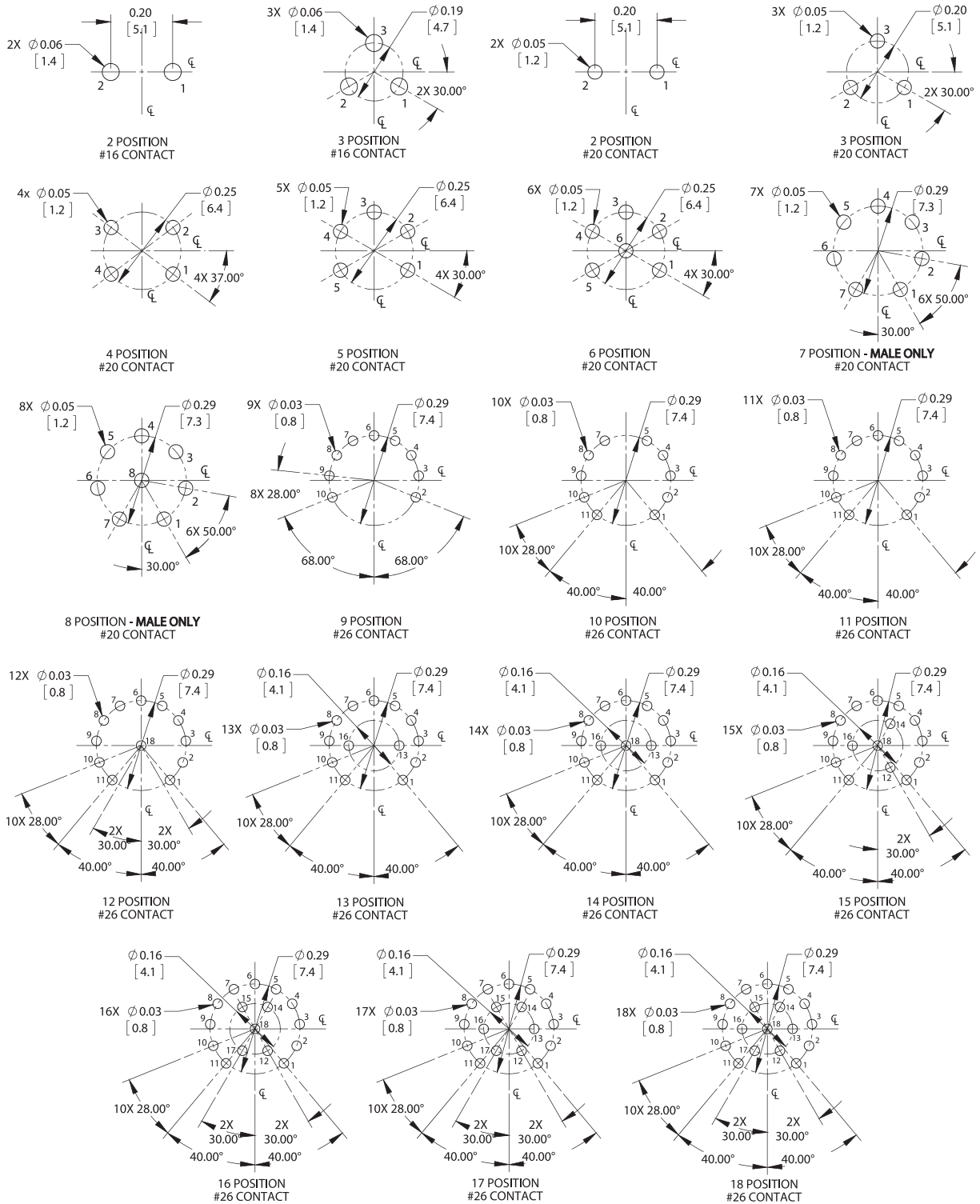


OPTION "P"
EN3 SERIES 9 - 18 POSITION
PC TERMINALS

EN3P9M26PX SHOWN

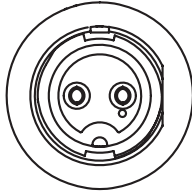
All dimensions are for reference only. Units shown: in[mm].

EN3[®] PANEL CONNECTORS PCB LAYOUT COMPONENT SIDE

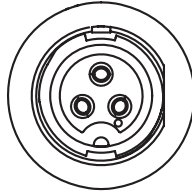


All dimensions are for reference only. Units shown: in[mm].

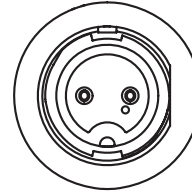
2-18 PIN PANEL CONNECTORS
Front View (Mating End)



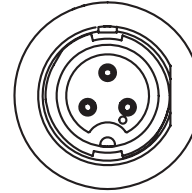
2 POSITION
#16 PIN & SOCKET
CONTACT



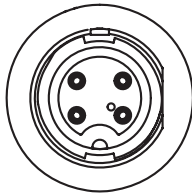
3 POSITION
#16 PIN & SOCKET
CONTACT



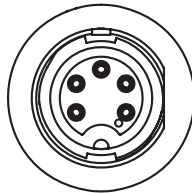
2 POSITION
#20 PIN & SOCKET
CONTACT



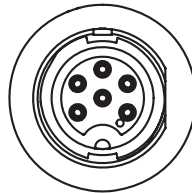
3 POSITION
#20 PIN & SOCKET
CONTACT



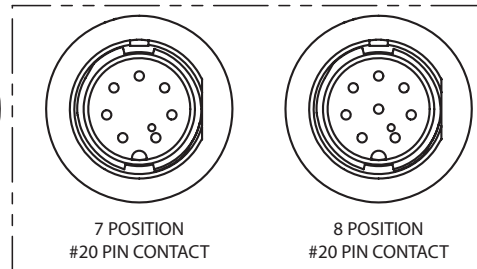
4 POSITION
#20 PIN & SOCKET
CONTACT



5 POSITION
#20 PIN & SOCKET
CONTACT



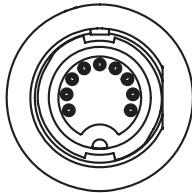
6 POSITION
#20 PIN & SOCKET
CONTACT



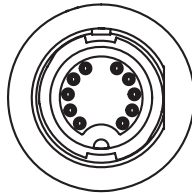
7 POSITION
#20 PIN CONTACT

8 POSITION
#20 PIN CONTACT

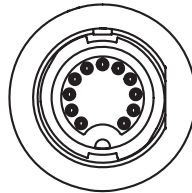
7 & 8 PIN ONLY CONNECTORS



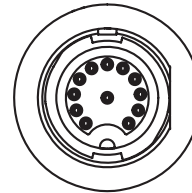
9 POSITION
#26 PIN & SOCKET
CONTACT



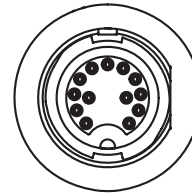
10 POSITION
#26 PIN & SOCKET
CONTACT



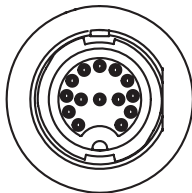
11 POSITION
#26 PIN & SOCKET
CONTACT



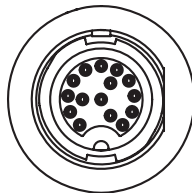
12 POSITION
#26 PIN & SOCKET
CONTACT



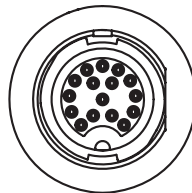
13 POSITION
#26 PIN & SOCKET
CONTACT



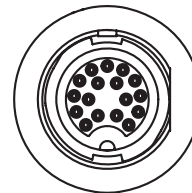
14 POSITION
#26 PIN & SOCKET
CONTACT



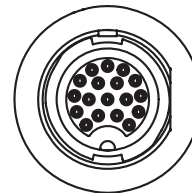
15 POSITION
#26 PIN & SOCKET
CONTACT



16 POSITION
#26 PIN & SOCKET
CONTACT



17 POSITION
#26 PIN & SOCKET
CONTACT



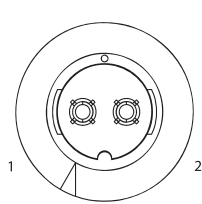
18 POSITION
#26 PIN & SOCKET
CONTACT

All dimensions are for reference only. Units shown: in[mm].

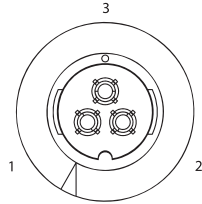
2-18 PANEL CONNECTORS

Rear View (Wiring Side)

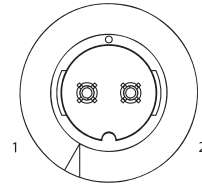
9-18 position identification numbers denote position used in 18 position layout



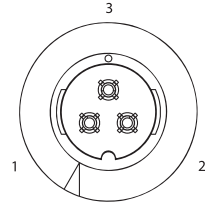
2 POSITION
#16 PIN & SOCKET
CONTACT



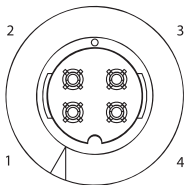
3 POSITION
#16 PIN & SOCKET
CONTACT



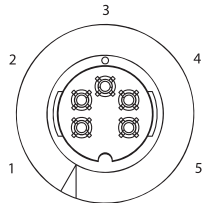
2 POSITION
#16 PIN & SOCKET
CONTACT



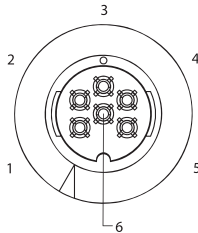
3 POSITION
#20 PIN & SOCKET
CONTACT



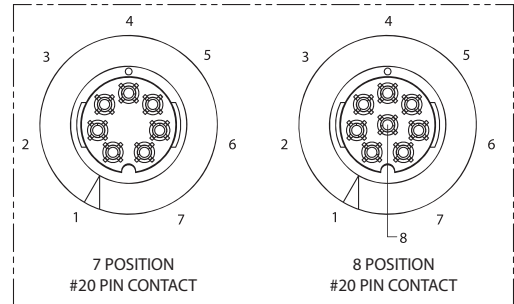
4 POSITION
#20 PIN & SOCKET
CONTACT



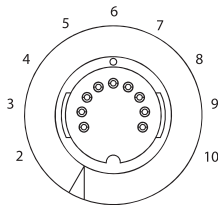
5 POSITION
#20 PIN & SOCKET
CONTACT



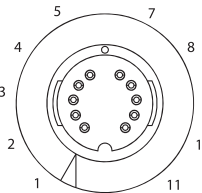
6 POSITION
#20 PIN & SOCKET
CONTACT



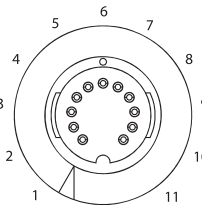
7 & 8 POSITION NOT AVAILABLE IN
FEMALE PANEL CONNECTORS



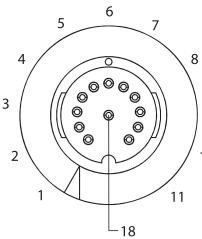
9 POSITION
#26 PIN & SOCKET
CONTACT



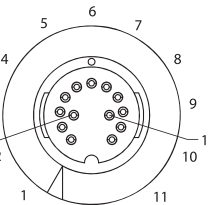
10 POSITION
#26 PIN & SOCKET
CONTACT



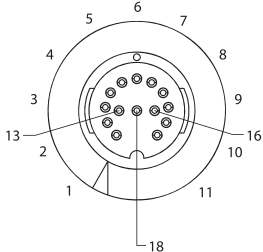
11 POSITION
#26 PIN & SOCKET
CONTACT



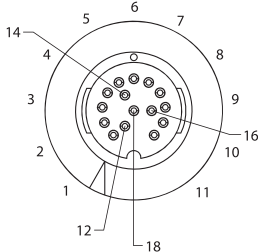
12 POSITION
#26 PIN & SOCKET
CONTACT



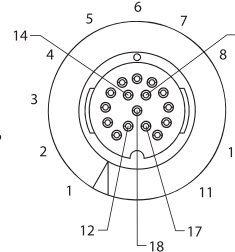
13 POSITION
#26 PIN & SOCKET
CONTACT



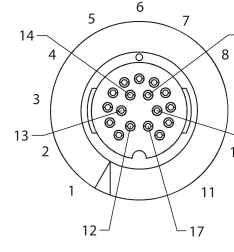
14 POSITION
#26 PIN & SOCKET
CONTACT



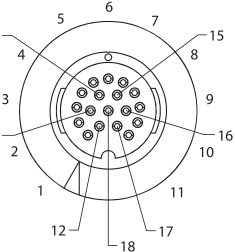
15 POSITION
#26 PIN & SOCKET
CONTACT



16 POSITION
#26 PIN & SOCKET
CONTACT



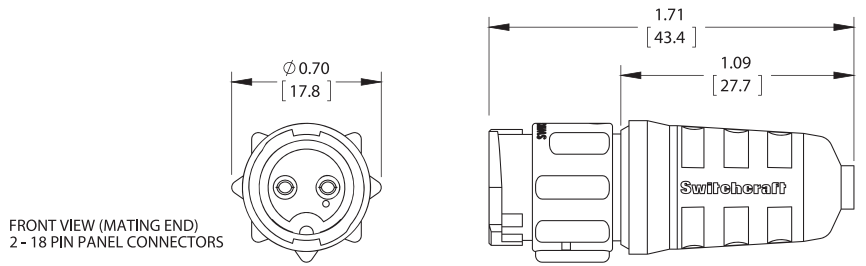
17 POSITION
#26 PIN & SOCKET
CONTACT



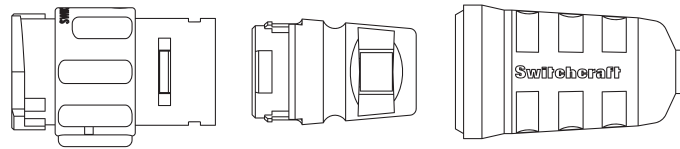
18 POSITION
#26 PIN & SOCKET
CONTACT

All dimensions are for reference only. Units shown: in/[mm].

INLINE CONNECTORS

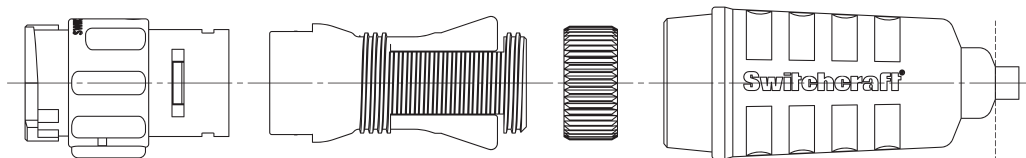
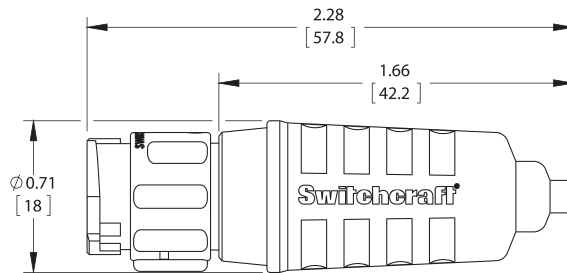


FRONT VIEW (MATING END)
2 - 18 PIN PANEL CONNECTORS



EN3 SERIES 2 - 18 POSITION
STANDARD CABLE CLAMP & BOOT
Ø 0.160 - Ø 0.268 CABLES

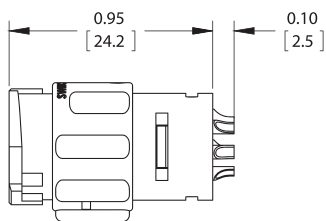
EN3L2F16CX SHOWN



OPTION "L"
EN3 SERIES 2 - 18 POSITION
LARGE CABLE CLAMP & BOOT
Ø 0.230 - Ø 0.380 CABLES

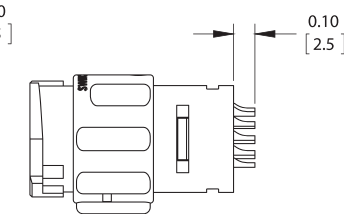
EN3L2F16CLX SHOWN

CUT OFF END OF BOOT
HERE FOR CABLES
LARGER THAN Ø 0.280



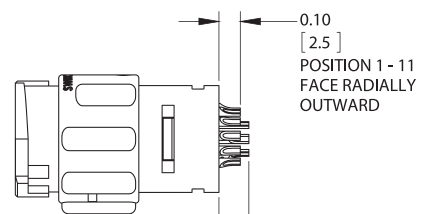
EN3 SERIES 2 - 8 POSITION
STANDARD SOLDER CUP
ALL POSITIONS
FACE RADIALLY OUTWARD

EN3L8MX SHOWN



EN3 SERIES 9 - 18 POSITION
STANDARD SOLDER CUP
ALL POSITIONS FACE UPWARD

EN3L18F26X SHOWN



OPTION "S"
EN3 SERIES 9 - 18 POSITION ONLY
STAGGERED SOLDER CUPS

EN3L18F26SX SHOWN

0.10 [2.5]
POSITION 1 - 11
FACE RADIALLY
OUTWARD

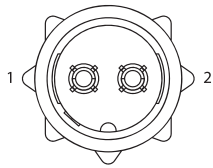
0.14 [3.6]
POSITION 12 - 18
FACE RADIALLY
OUTWARD

All dimensions are for reference only. Units shown: in[mm].

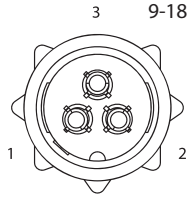
2-18 POSITION INLINE CONNECTORS

Rear View (Wiring Side)

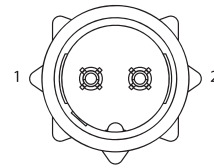
9-18 Position identification numbers denote position used in 18 position layout



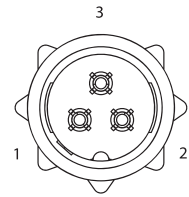
2 POSITION
#16 PIN & SOCKET
CONTACT



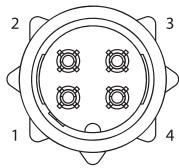
3 POSITION
#16 PIN & SOCKET
CONTACT



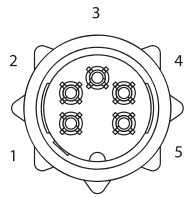
2 POSITION
#20 PIN & SOCKET
CONTACT



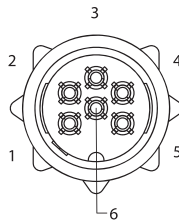
3 POSITION
#20 PIN & SOCKET
CONTACT



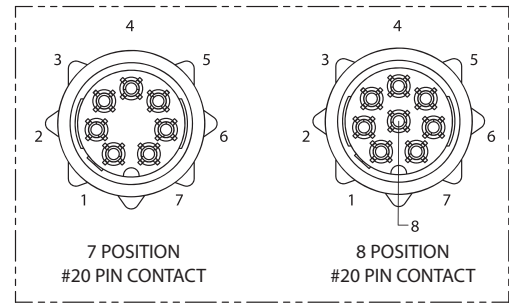
4 POSITION
#20 PIN & SOCKET
CONTACT



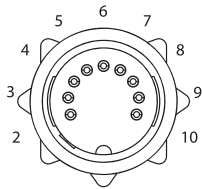
5 POSITION
#20 PIN & SOCKET
CONTACT



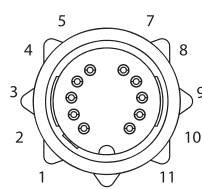
6 POSITION
#20 PIN & SOCKET
CONTACT



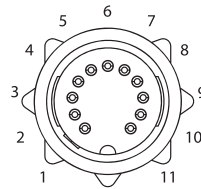
**7 & 8 POSITION NOT AVAILABLE IN
FEMALE INLINE CONNECTORS**



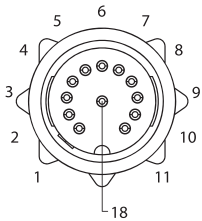
9 POSITION
#26 PIN & SOCKET
CONTACT



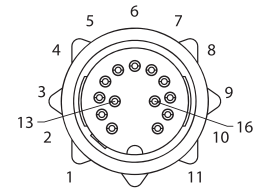
10 POSITION
#26 PIN & SOCKET
CONTACT



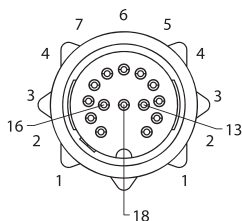
11 POSITION
#26 PIN & SOCKET
CONTACT



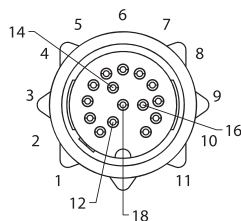
12 POSITION
#26 PIN & SOCKET
CONTACT



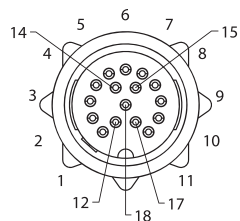
13 POSITION
#26 PIN & SOCKET
CONTACT



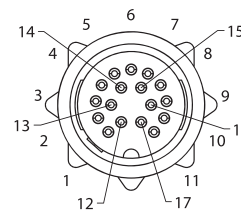
14 POSITION
#26 PIN & SOCKET
CONTACT



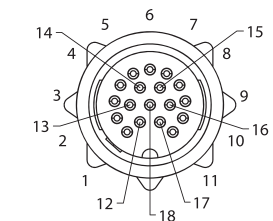
15 POSITION
#26 PIN & SOCKET
CONTACT



16 POSITION
#26 PIN & SOCKET
CONTACT



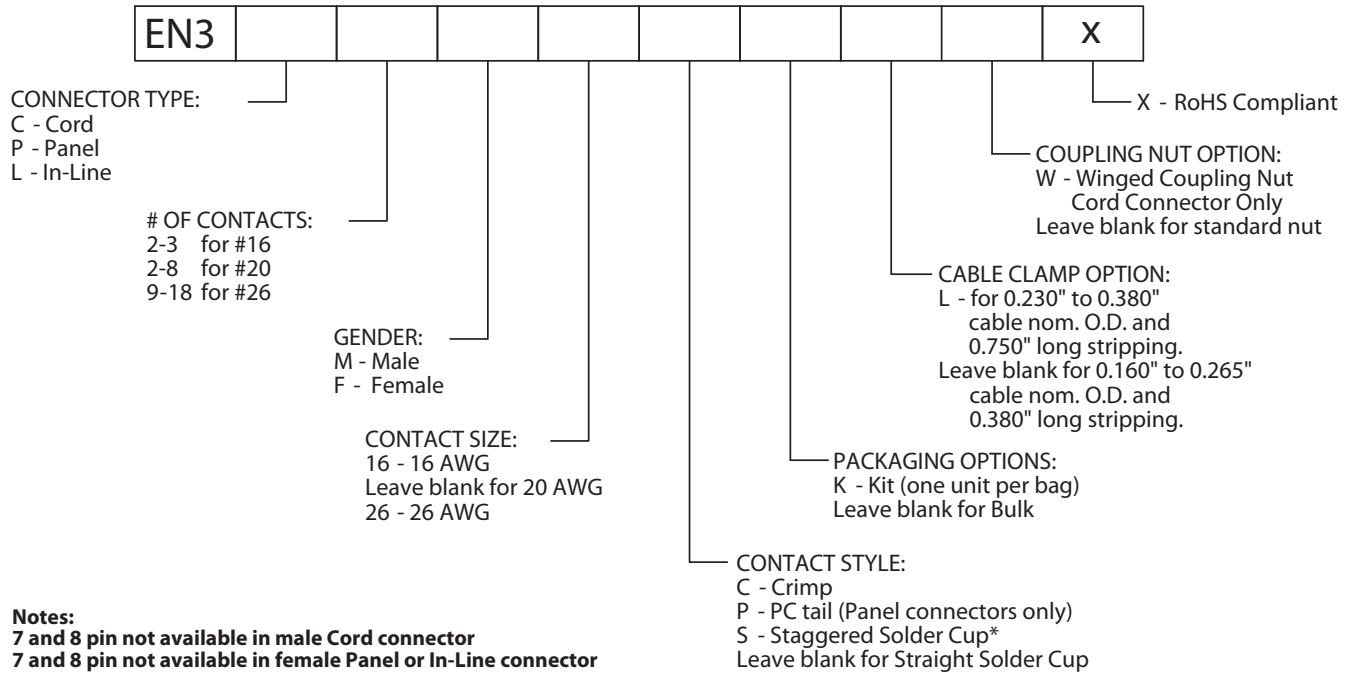
17 POSITION
#26 PIN & SOCKET
CONTACT



18 POSITION
#26 PIN & SOCKET
CONTACT

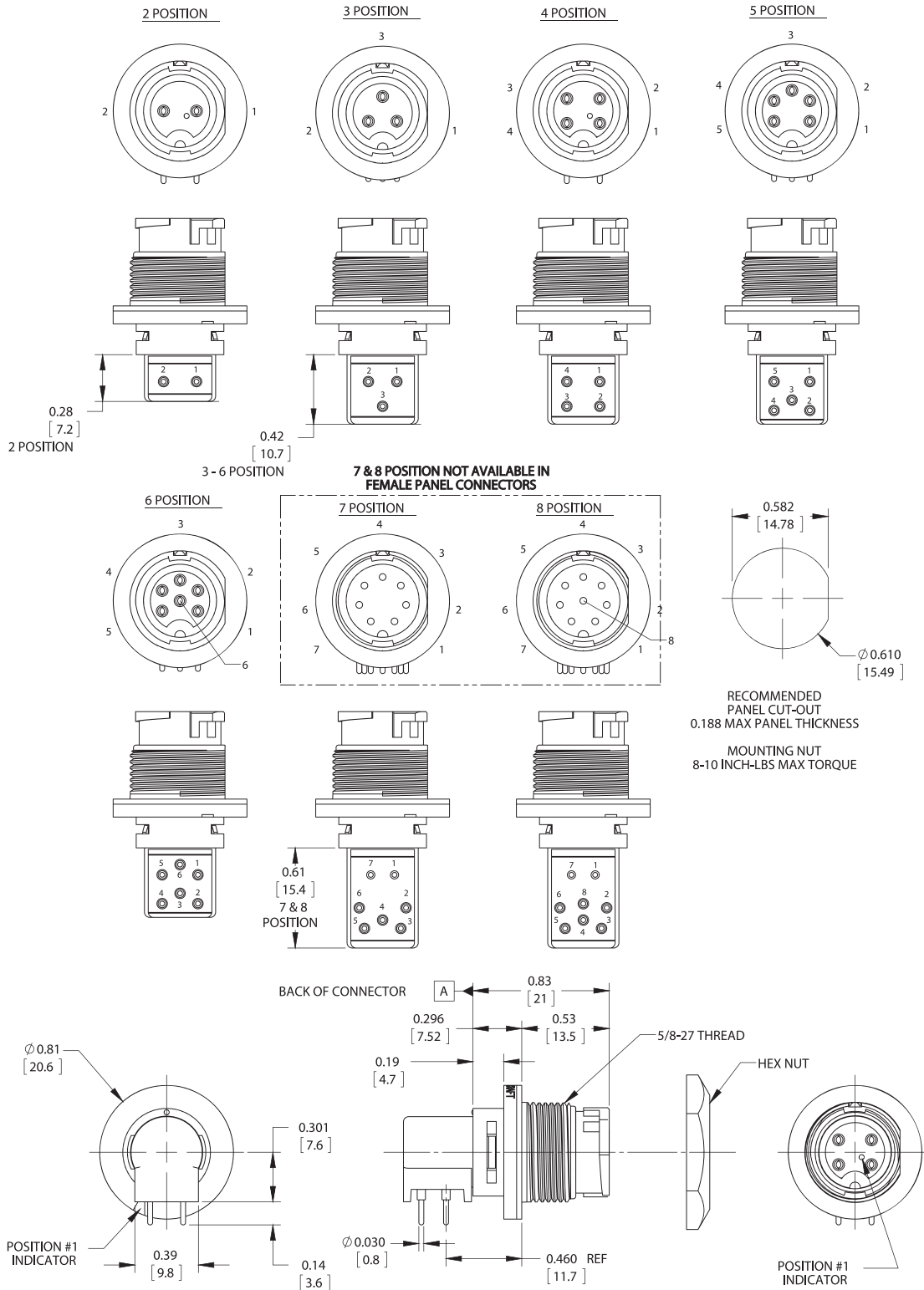
All dimensions are for reference only. Units shown: in[mm].

PART NUMBER TO ORDER - EN3®



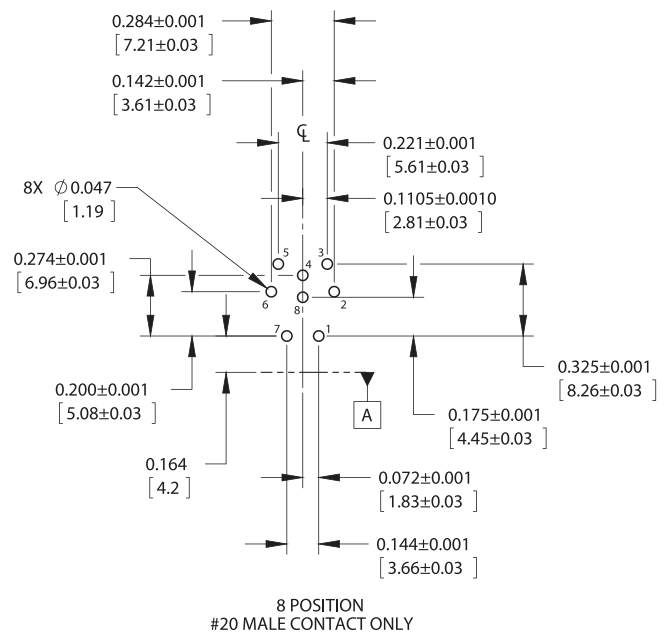
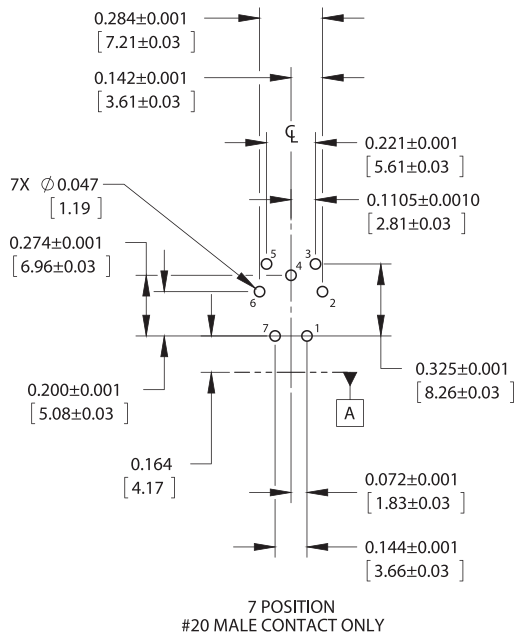
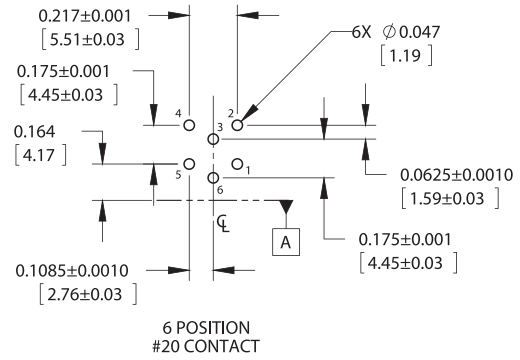
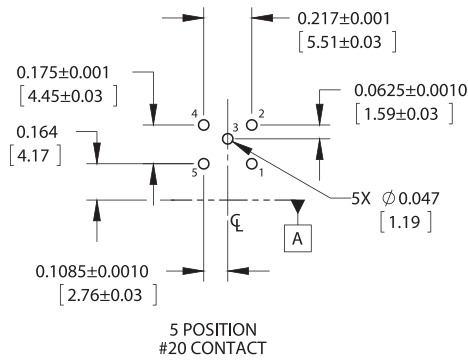
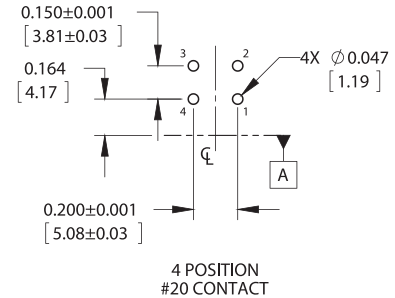
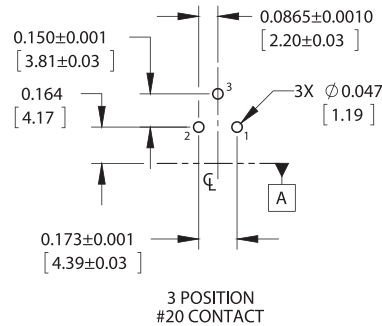
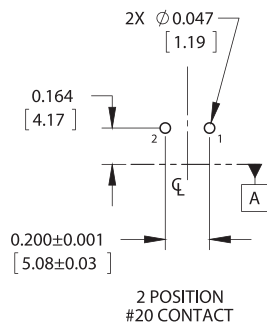
*Available only for products with 9-18 contacts

EN3[®] RIGHT ANGLE 2-8 POSITION MOLDED CONNECTORS



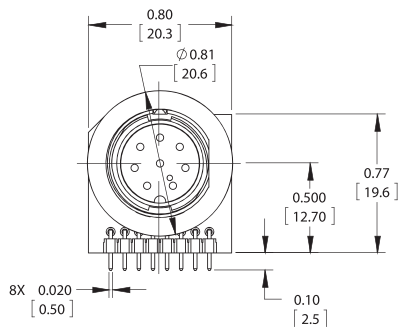
All dimensions are for reference only. Units shown: in[mm].

EN3® RIGHT ANGLE 2-8 POSITION CONNECTORS

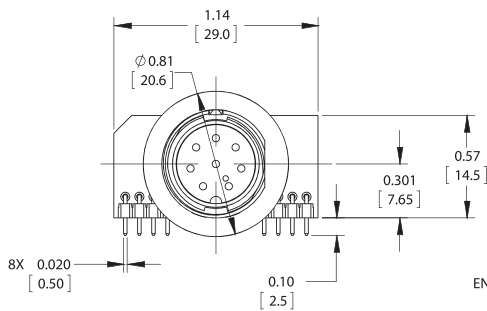
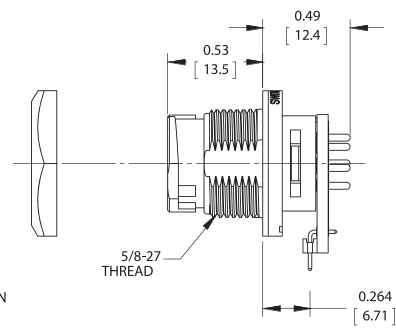


All dimensions are for reference only. Units shown: in[mm].

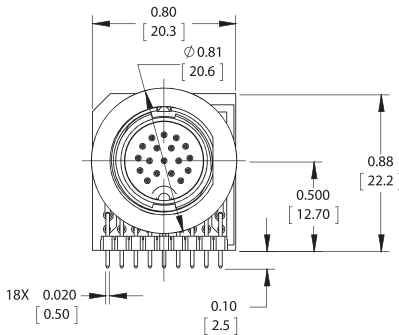
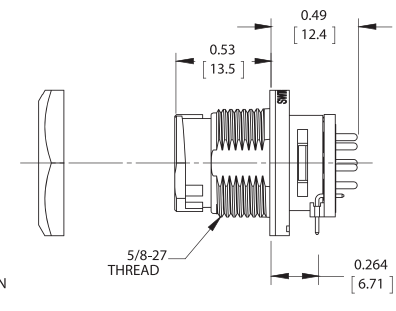
EN3[®] RIGHT ANGLE PC BOARD CONNECTORS



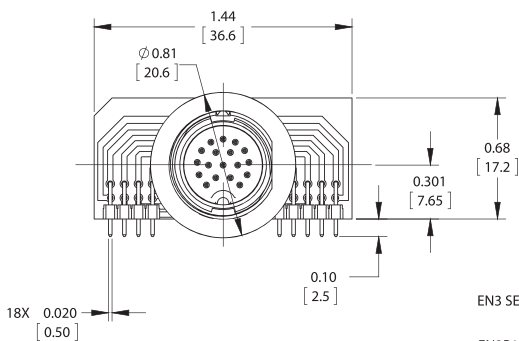
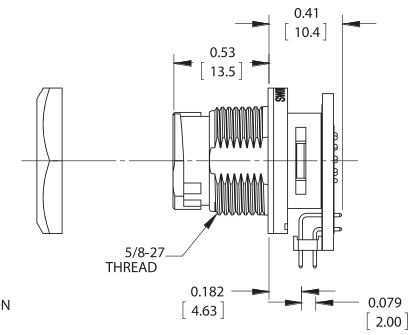
OPTION "N"
EN3 SERIES 2 - 8 POSITION
NARROW PCB
EN3P8MRAPCBN SHOWN
(NOT AVAILABLE IN FEMALE 7 & 8 POSITION)



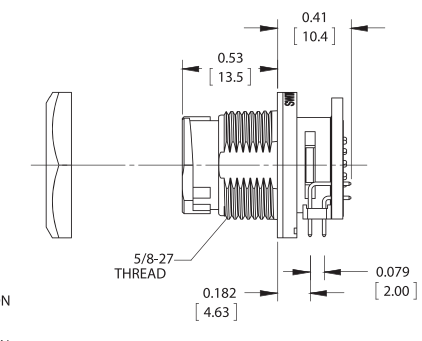
OPTION "W"
EN3 SERIES 2 - 8 POSITION
WIDE PCB
EN3P8MRAPCBW SHOWN
(NOT AVAILABLE IN FEMALE 7 & 8 POSITION)



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

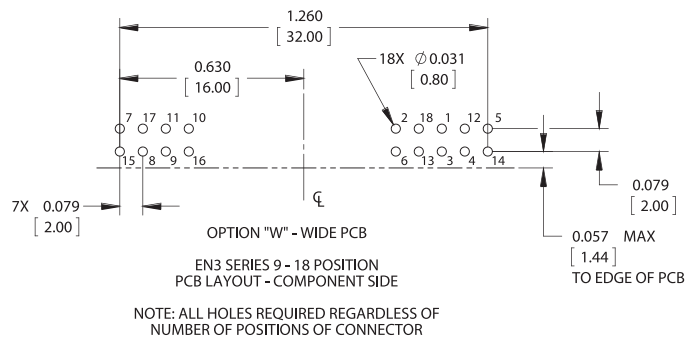
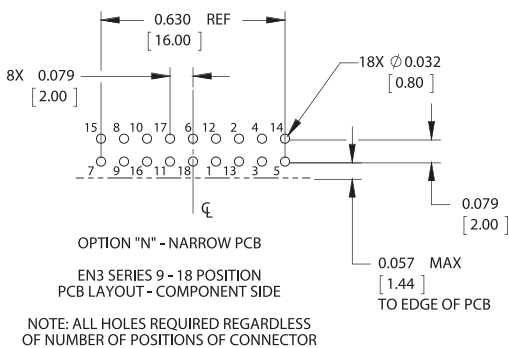
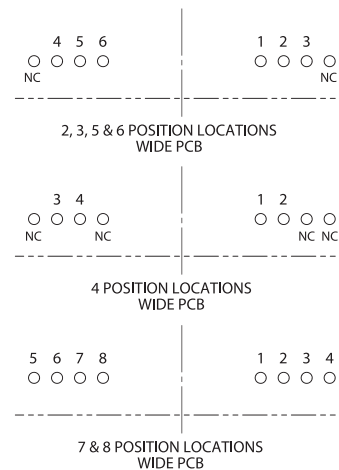
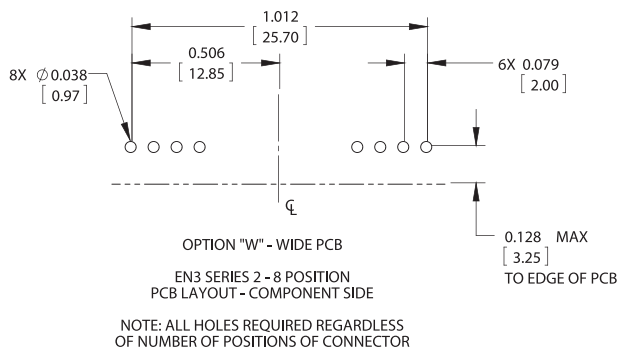
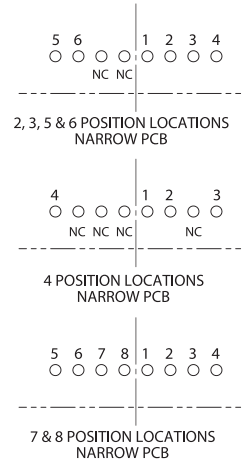
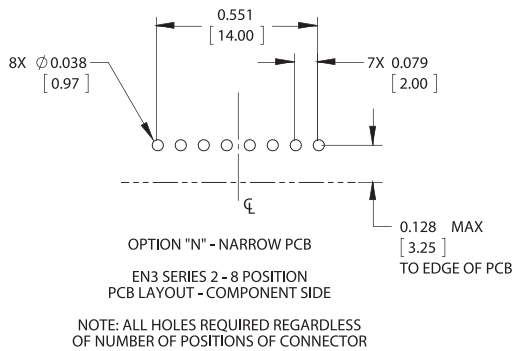


OPTION "W"
EN3 SERIES 9 - 18 POSITION
WIDE PCB
EN3P18MRAPCBW SHOWN



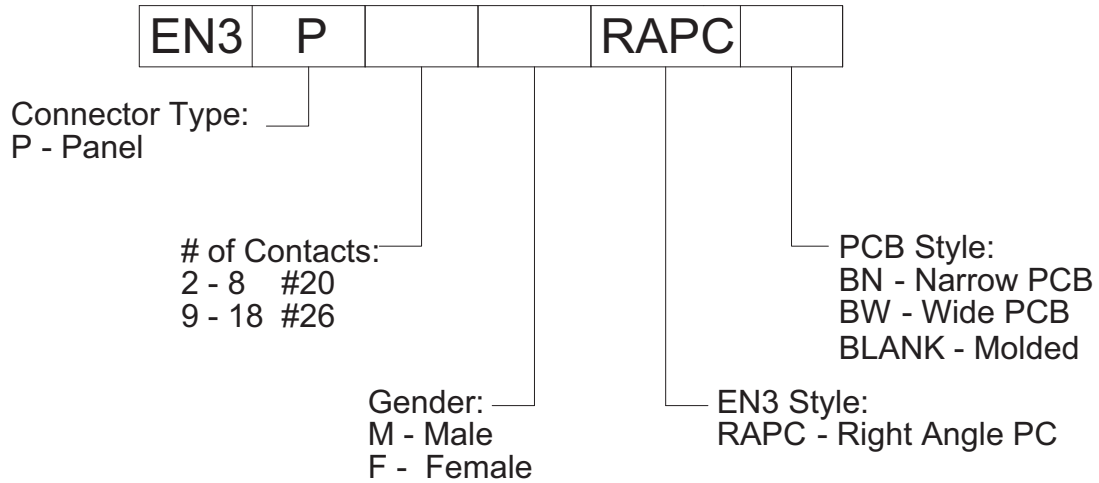
All dimensions are for reference only. Units shown: in[mm].

EN3[®] RIGHT ANGLE PC BOARD CONNECTORS



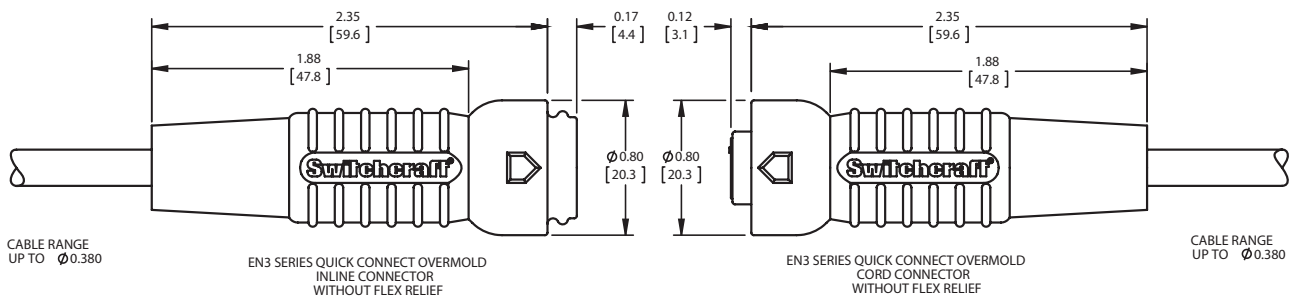
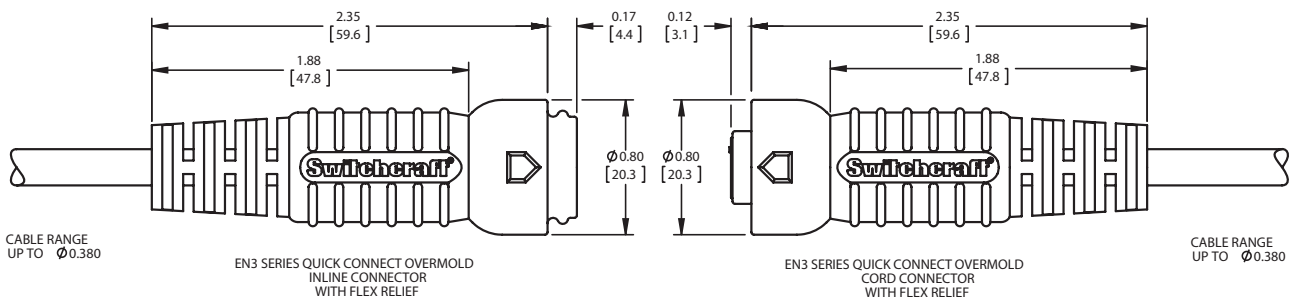
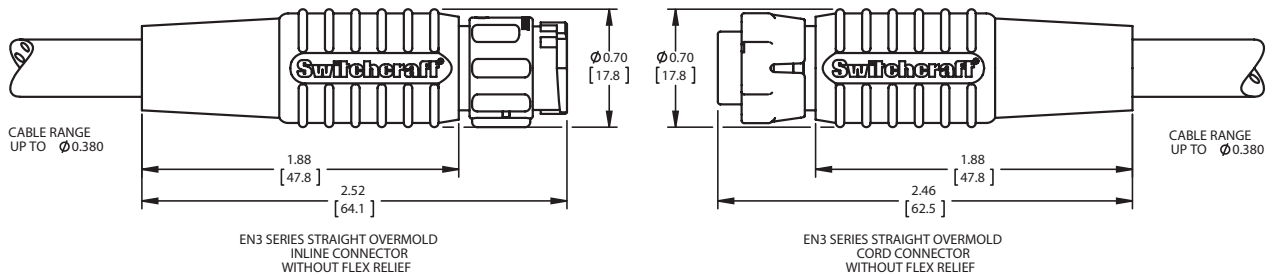
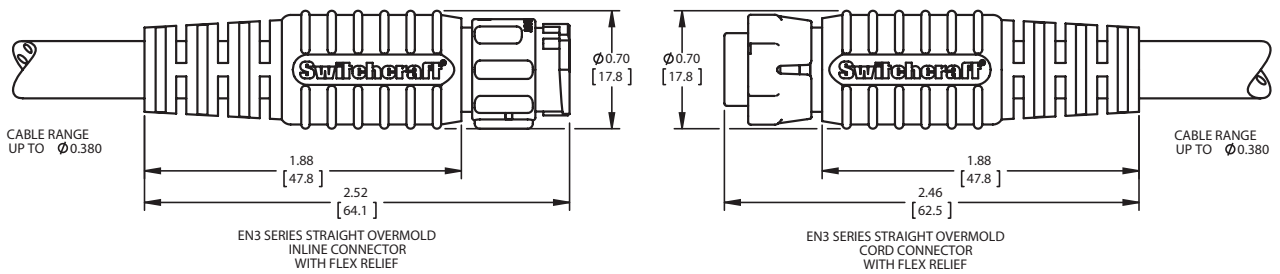
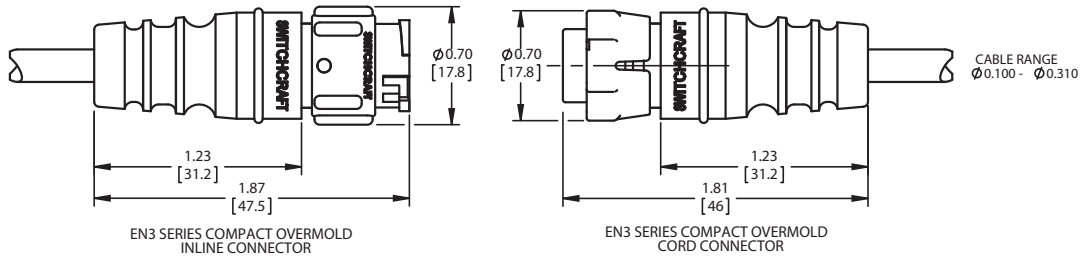
All dimensions are for reference only. Units shown: in[mm].

PART NUMBER TO ORDER - RIGHT ANGLE EN3® PANEL MOUNTS



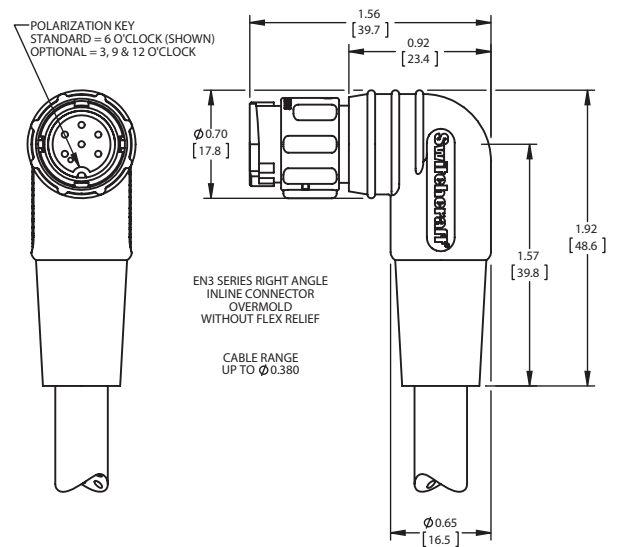
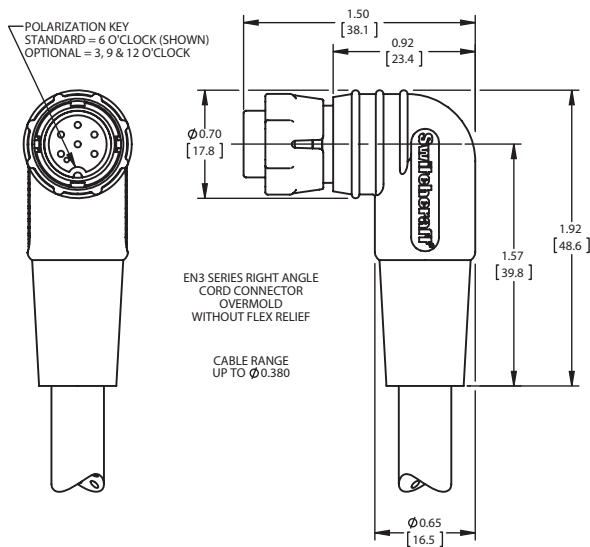
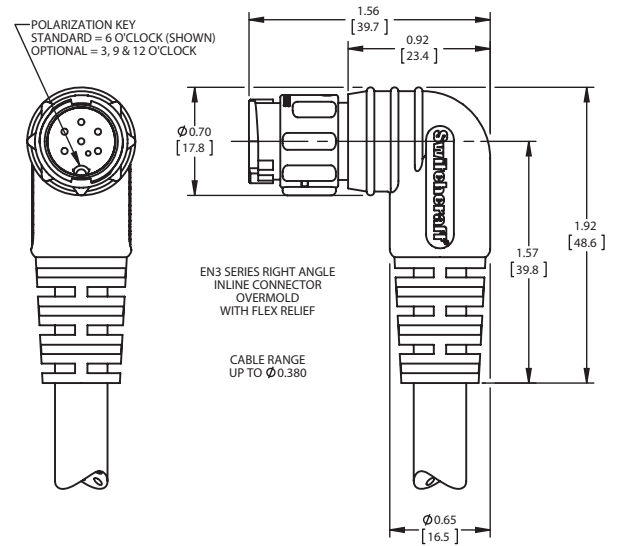
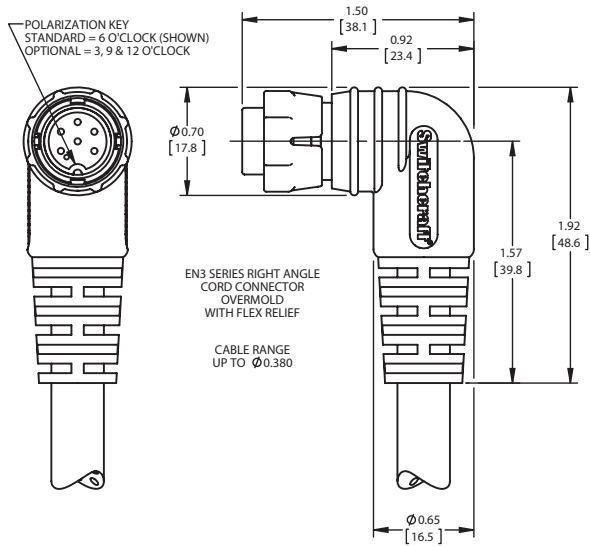
Notes:
 7 and 8 pin not available in female Panel connector

CUSTOM MOLDED CABLE ASSEMBLIES



All dimensions are for reference only. Units shown: in[mm].

CUSTOM MOLDED CABLE ASSEMBLIES



All dimensions are for reference only. Units shown: in[mm].

EN2 & EN3® ELECTRICAL CURRENT RATING CHART

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

EN3® SERIES CURRENT RATING TABLE

CONTACT SIZE	CONDUCTOR SIZE - AWG	NUMBER OF CONDUCTORS	CURRENT RATING
#16	16	2 through 3	13.0A
	18		
#20	20	2 through 6	7.5A
	22		
	20	7 through 8	6.5A
	22		
#26	26	9 through 18	3A
	28		

TOOLING

EN2 & EN3® CONTACT CRIMPING TOOL

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

EN2 & EN3® INSERTION / EXTRACTION TOOLS

Part Number	Contact Sizes	Description
EN3INS16	#16	Insertion / Extraction Tool for 16 AWG
EN3INS20	#20, #22	Insertion / Extraction Tool for 20 & 22 AWG
EN3INS26	#26	Insertion / Extraction Tool for 26, 28 & 30 AWG

EN2 & EN3® 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			