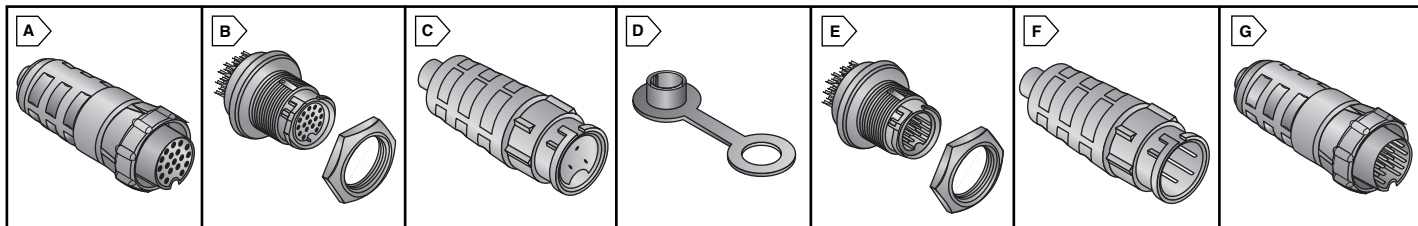


SWITCHCRAFT EN3™ Weathertight Series

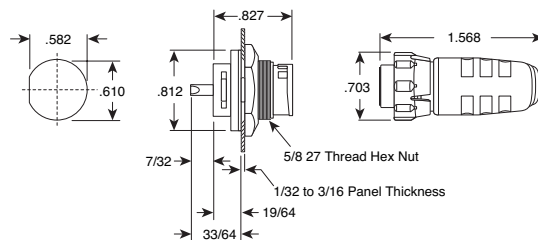
Switchcraft®



Specifications:

- Material:** Panel connector shells and solder contact locking disk: Thermoplastic polymer glass fiber, flame retardant
Connector shell interior: Thermoplastic rubber
Contacts: Copper base alloy gold-plated over nickel underplate
- Mechanical:** Shock: Mil-Std 202 Method 213B, condition K
Vibration: Mil-Std 202 Method 201
Life: 600 Insertion/withdrawal cycles (minimum)
- Electrical:** Voltage Rating (sea level): Tested at 600 VRMS
Insulation Resistance: 100 megohms (minimum) at 77° F
Current Rating: 13.0 Amps (#16 contact) 3 Pin
7.5 Amps (#20 contact) 3 to 6 Pin
6.5 Amps (#20 contact) 7 and 8 Pin
3.0 Amps (#26 contact) 9 to 18 Pin

- Cable Diameter:** .195" to .265"
- Environmental:** Temperature Limits: -40°C to +65°C (non-operating)
Moisture Resistance: Mil-Std 202 Method 106°F
Insulation Resistance: Mil-Std 202 Method 302 condition B
Thermal Shock: Mil-Std 202 Method 101D condition B
Salt Spray: Mil-Std 202 Method 101D condition B
Exceeds Coast Guard specifications for water tightness (CRF 46 Part 110.20)
- Ratings:** 1P16/1P18, 1P66/1P68, NEMA 250 (6P)
CFR 46 Part 110.20, UL 94V-0
- Termination:** Solder cup
9C-18C have staggered solder cups for easier soldering



Features:

- Double-sealed for moisture & chemical resistance
- Integral O-ring and gasket is molded onto panel housing to prevent leakage and eliminate need for additional O-rings and gaskets
- Panel Connector shell has a positioning keyway to prevent misalignments and a polarizing single "D" design for proper panel mounting and prevents rotational movement
- Abrasion-resistant thermoplastic boot provides strain relief and accepts cable diameter .195" to .265".
- RoHS compliance per Switchcraft documentation

Applications:

- Process Control
- Marine Electronics
- Medical Instrumentation
- Geothermal Instrumentation
- Communication
- General Industrial Electronics



RoHS Compliant

PROTECTIVE CAP

Covers the panel housing assembly when not in use.
For quantities of 500 and up, call for quote.

Fig.	Mates with Fig.
A	E & F
B	G
C	G

MOUSER STOCK NO.	Switchcraft Part No.	Fig.	Price Each			
			1	10	25	100
Cord Type						
502-EN3CAP	EN3CAP	D	.99	.90	.86	.81

SOCKET TYPE (FEMALE)

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Switchcraft Part No.	Fig.	Contact Positions	Contact Size	Price Each			
					1	10	25	100
Cord Type								
502-EN3C3F16	EN3C3F16	A	3	16	5.74	5.22	4.96	4.70
502-EN3C2F	EN3C2F	A	2	20	4.40	4.00	3.80	3.60
502-EN3C3F	EN3C3F	A	3	20	4.93	4.48	4.26	4.03
502-EN3C4F	EN3C4F	A	4	20	5.87	5.34	5.07	4.81
502-EN3C5F	EN3C5F	A	5	20	7.63	6.94	6.59	6.25
502-EN3C6F	EN3C6F	A	6	20	8.27	7.52	7.14	6.77
502-EN3C7F	EN3C7F	A	7	20	9.90	9.00	8.55	8.10
502-EN3C8F	EN3C8F	A	8	20	10.41	9.46	8.99	8.51
502-EN3C9F26S	EN3C9F26S	A	9	26	14.61	13.28	12.62	11.95
502-EN3C10F26S	EN3C10F26S	A	10	26	15.99	14.54	13.81	13.09
502-EN3C11F26S	EN3C11F26S	A	11	26	13.77	12.52	11.89	11.27
502-EN3C12F26S	EN3C12F26S	A	12	26	18.57	16.88	16.04	15.19
502-EN3C13F26S	EN3C13F26S	A	13	26	19.91	18.10	17.20	16.29
502-EN3C14F26S	EN3C14F26S	A	14	26	21.30	19.36	18.39	17.42
502-EN3C15F26S	EN3C15F26S	A	15	26	22.57	20.52	19.49	18.47
502-EN3C16F26S	EN3C16F26S	A	16	26	23.87	21.70	20.62	19.53
502-EN3C17F26S	EN3C17F26S	A	17	26	25.26	22.96	21.81	20.66
502-EN3C18F26S	EN3C18F26S	A	18	26	26.53	24.12	22.91	21.71
Panel Type								
502-EN3P3F16	EN3P3F16	B	3	16	6.38	5.80	5.51	5.22
502-EN3P2F	EN3P2F	B	2	20	4.86	4.42	4.20	3.98
502-EN3P3F	EN3P3F	B	3	20	4.91	4.46	4.24	4.01
502-EN3P4F	EN3P4F	B	4	20	5.90	5.36	5.09	4.82
502-EN3P5F	EN3P5F	B	5	20	6.58	5.98	5.68	5.38
502-EN3P6F	EN3P6F	B	6	20	8.03	7.30	6.94	6.57
502-EN3P9F26S	EN3P9F26S	B	9	26	13.77	12.52	11.89	11.27
502-EN3P10F26S	EN3P10F26S	B	10	26	15.00	13.64	12.96	12.28
502-EN3P11F26S	EN3P11F26S	B	11	26	16.35	14.86	14.12	13.37
502-EN3P12F26S	EN3P12F26S	B	12	26	17.62	16.02	15.22	14.42
502-EN3P13F26S	EN3P13F26S	B	13	26	19.01	17.28	16.42	15.55
502-EN3P14F26S	EN3P14F26S	B	14	26	20.35	18.50	17.58	16.65
502-EN3P15F26S	EN3P15F26S	B	15	26	21.63	19.66	18.68	17.69
502-EN3P16F26S	EN3P16F26S	B	16	26	22.92	20.84	19.80	18.76
502-EN3P17F26S	EN3P17F26S	B	17	26	24.31	22.10	21.00	19.89
502-EN3P18F26S	EN3P18F26S	B	18	26	25.65	23.32	22.15	20.99
In-Line Cord Type								
502-EN3L3F16	EN3L3F16	C	3	16	5.59	5.08	4.83	4.57
502-EN3L3F	EN3L3F	C	3	20	5.39	4.90	4.66	4.41
502-EN3L4F	EN3L4F	C	4	20	6.45	5.86	5.57	5.27
502-EN3L5F	EN3L5F	C	5	20	6.62	6.02	5.72	5.42
502-EN3L6F	EN3L6F	C	6	20	8.47	7.70	7.32	6.93

PIN TYPE (MALE)

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Switchcraft Part No.	Fig.	Contact Positions	Contact Size	Price Each			
					1	10	25	100
Panel Type								
502-EN3P3M16	EN3P3M16	E	3	16	3.76	3.42	3.25	3.08
502-EN3P2M	EN3P2M	E	2	20	2.93	2.66	2.53	2.39
502-EN3P3M	EN3P3M	E	3	20	3.17	2.88	2.74	2.59
502-EN3P4M	EN3P4M	E	4	20	4.11	3.74	3.55	3.37
502-EN3P5M	EN3P5M	E	5	20	4.75	4.32	4.10	3.89
502-EN3P6M	EN3P6M	E	6	20	5.08	4.62	4.39	4.16
502-EN3P7M	EN3P7M	E	7	20	7.44	6.76	6.42	6.08
502-EN3P8M	EN3P8M	E	8	20	6.62	6.02	5.72	5.42
502-EN3P9M26S	EN3P9M26S	E	9	26	8.76	7.96	7.56	7.16
502-EN3P10M26S	EN3P10M26S	E	10	26	9.46	8.60	8.17	7.74
502-EN3P11M26S	EN3P11M26S	E	11	26	10.25	9.32	8.85	8.39
502-EN3P12M26S	EN3P12M26S	E	12	26	10.89	9.90	9.41	8.91
502-EN3P13M26S	EN3P13M26S	E	13	26	11.59	10.54	10.01	9.49
502-EN3P14M26S	EN3P14M26S	E	14	26	12.39	11.26	10.70	10.13
502-EN3P15M26S	EN3P15M26S	E	15	26	13.07	11.88	11.29	10.69
502-EN3P16M26S	EN3P16M26S	E	16	26	13.86	12.60	11.97	11.34
502-EN3P17M26S	EN3P17M26S	E	17	26	14.56	13.24	12.58	11.92
502-EN3P18M26S	EN3P18M26S	E	18	26	15.25	13.86	13.17	12.47
In-Line Cord Type								
502-EN3L3M16	EN3L3M16	F	3	16	4.05	3.68	3.50	3.31
502-EN3L2M	EN3L2M	F	2	20	3.10	2.82	2.68	2.54
502-EN3L3M	EN3L3M	F	3	20	3.92	3.56	3.38	3.20
502-EN3L4M	EN3L4M	F	4	20	4.44	4.04	3.84	3.64
502-EN3L5M	EN3L5M	F	5	20	6.38	5.80	5.51	5.22
502-EN3L6M	EN3L6M	F	6	20	7.08	6.44	6.12	5.80
Cord Type								
502-EN3C3M16	EN3C3M16	G	3	16	4.16	3.78	3.59	3.40
502-EN3C2M	EN3C2M	G	2	20	4.27	3.88	3.69	3.49
502-EN3C3M	EN3C3M	G	3	20	3.78	3.44	3.27	3.10
502-EN3C4M	EN3C4M	G	4	20	4.09	3.72	3.53	3.35
502-EN3C5M	EN3C5M	G	5	20	4.69	4.26	4.05	3.83
502-EN3C6M	EN3C6M	G	6	20	5.83	5.30	5.04	4.77
502-EN3C9M26S	EN3C9M26S	G	9	26	9.35	8.50	8.08	7.65
502-EN3C10M26S	EN3C10M26S	G	10	26	10.21	9.28	8.82	8.35
502-EN3C11M26S	EN3C11M26S	G	11	26	8.71	7.92	7.52	7.13
502-EN3C12M26S	EN3C12M26S	G	12	26	11.73	10.66	10.13	9.59
502-EN3C13M26S	EN3C13M26S	G	13	26	12.47	11.34	10.77	10.21
502-EN3C14M26S	EN3C14M26S	G	14	26	13.18	11.98	11.38	10.78
502-EN3C15M26S	EN3C15M26S	G	15	26	13.97	12.70	12.07	11.43
502-EN3C16M26S	EN3C16M26S	G	16	26	14.70	13.36	12.69	12.02
502-EN3C17M26S	EN3C17M26S	G	17	26	15.44	14.04	13.34	12.64
502-EN3C18M26S	EN3C18M26S	G	18	26	16.24	14.76	14.02	13.28

Circular Connectors

Switchcraft