

SWITCHCRAFT EN3™ Weathertight Series Switchcraft®



This product is RoHS compliant.

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 megaohms (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"
- New "LX" Cable Clamp with retaining nut accepts cable diameter from 0.23-0.38"
- 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: IP16/IP18, IP66/IP68, NEMA 250 (6P)
CFR 46 Part 110.20, UL 94V-O
- 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"
- New "LX" boot seals cable diameters up to 0.38"

Applications:

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

DIMENSIONS: in.

Standard Version:

"LX" Version:

Right Angle Version:

NEW PRODUCT

A **B**

C **D** **E**

F **G** **H**

PROTECTIVE CAP

Covers the panel housing assembly when not in use.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Switchcraft Part No.	Price Each			
		1	10	25	50
Cord Type					
502-EN3CAP	EN3CAPX	1.12	1.06	.974	.952

PROTECTIVE BOOT

502-EN3BOOT	EN3BOOTX	.42	.39	.371	.34
-------------	----------	-----	-----	------	-----

SOCKET TYPE (FEMALE)

* New "LX" Version (Large Boot & Clamp)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Switchcraft Part No.	Fig.	No. of Pins	Contact Size	Price Each			
					1	10	25	50
Cord Type								
502-EN3C3F16	EN3C3F16X	A	3	16	7.84	6.03	5.53	5.27
502-EN3C2FX	EN3C2FX	A	2	20	6.03	5.52	4.79	4.51
502-EN3C3F	EN3C3FX	A	3	20	6.70	5.49	4.84	4.59
502-EN3C4F	EN3C4FX	A	4	20	7.74	6.18	5.68	5.46
502-EN3C5FX	EN3C5FX	A	5	20	8.20	6.83	6.10	5.67
502-EN3C6F	EN3C6FX	A	6	20	9.97	8.25	7.47	6.90
502-EN3C7F	EN3C7FX	A	7	20	13.21	11.63	10.58	9.78
502-EN3C8F	EN3C8FX	A	8	20	12.72	10.38	9.52	9.11
502-EN3C9F26S	EN3C9F26SX	A	9	26	16.52	15.58	14.75	14.00
502-EN3C10F26S	EN3C10F26SX	A	10	26	18.00	16.98	16.06	15.25
502-EN3C11F26S	EN3C11F26SX	A	11	26	19.44	18.33	17.35	16.47
* 502-EN3C12F26SLX	EN3C12F26SLX	A	12	26	20.54	19.38	18.34	17.41
502-EN3C12F26S	EN3C12F26SX	A	12	26	20.94	19.75	18.69	17.74
502-EN3C15F26S	EN3C15F26SX	A	15	26	26.82	25.30	23.94	22.72
502-EN3C16F26S	EN3C16F26SX	A	16	26	26.96	25.43	24.07	22.85
502-EN3C18F26S	EN3C18F26SX	A	18	26	23.94	22.58	21.37	20.29
* 502-EN3C18F26SLX	EN3C18F26SLX	A	18	26	29.08	27.43	25.96	24.64
Panel Type								
502-EN3P3F16	EN3P3F16X	B	3	16	7.07	6.03	5.51	4.92
502-EN3P2FX	EN3P2FX	B	2	20	4.39	4.06	3.84	3.67
502-EN3P3F	EN3P3FX	B	3	20	6.05	4.69	4.29	4.13
502-EN3P4FX	EN3P4FX	B	4	20	6.95	5.54	5.08	4.77
502-EN3P5F	EN3P5FX	B	5	20	8.31	6.59	6.04	5.62
502-EN3P6F	EN3P6FX	B	6	20	9.97	7.54	6.91	6.54
502-EN3P9F26S	EN3P9F26SX	B	9	26	14.06	12.43	11.52	10.01
502-EN3P10F26S	EN3P10F26SX	B	10	26	11.73	11.23	10.74	10.35
502-EN3P12F26SX	EN3P12F26SX	B	12	26	17.98	15.88	14.74	13.77
502-EN3P14F26S	EN3P14F26SX	B	14	26	20.01	19.51	18.71	14.74
502-EN3P15F26S	EN3P15F26SX	B	15	26	26.38	23.98	19.78	16.76
502-EN3P16F26S	EN3P16F26SX	B	16	26	22.49	20.63	18.74	15.92
502-EN3P18F26S	EN3P18F26SX	B	18	26	25.91	22.88	21.25	19.85
In-Line Cord Type								
502-EN3L3F16	EN3L3F16X	C	3	16	6.48	6.17	5.83	5.51
502-EN3L3FX	EN3L3FX	C	3	20	6.77	5.07	4.64	4.49
502-EN3L4F	EN3L4FX	C	4	20	7.58	6.08	5.59	5.29
502-EN3L5F	EN3L5FX	C	5	20	9.06	7.00	6.43	5.97
502-EN3L6F	EN3L6FX	C	6	20	9.96	8.02	7.34	6.85
Right Angle Type								
502-EN3P3FRAPC	EN3P3FRAPCX	D	3	20	11.59	8.70	7.97	7.82
502-EN3P4FRAPC	EN3P4FRAPCX	D	4	20	13.83	10.39	9.53	9.41
502-EN3P5FRAPC	EN3P5FRAPCX	D	5	20	16.43	12.34	11.30	10.99
* 502-EN3P6FRAPC	EN3P6FRAPCX	D	6	20	18.93	17.16	15.64	14.78

SOCKET TYPE (FEMALE)

MOUSER STOCK NO.	Switchcraft Part No.	Fig.	No. of Pins	Contact Size	Price Each			
					1	10	25	50
Panel Type								
502-EN3P3M16	EN3P3M16X	E	3	16	5.17	4.70	4.26	3.94
502-EN3P2MX	EN3P2MX	E	2	20	3.71	2.78	2.55	2.47
502-EN3P3MX	EN3P3MX	E	3	20	4.15	3.36	3.09	2.97
502-EN3P4MX	EN3P4MX	E	4	20	4.92	3.71	3.40	3.29
502-EN3P5MX	EN3P5MX	E	5	20	6.01	4.50	4.12	3.89
502-EN3P6MX	EN3P6MX	E	6	20	6.49	5.06	4.64	4.24
502-EN3P7MX	EN3P7MX	E	7	20	7.55	6.68	6.20	5.40
502-EN3P8MX	EN3P8MX	E	8	20	7.61	6.18	5.68	5.59
502-EN3P9M26S	EN3P9M26SX	E	9	26	8.83	7.83	7.34	6.82
502-EN3P10M26S	EN3P10M26SX	E	10	26	12.34	10.96	8.36	7.52
502-EN3P11M26S	EN3P11M26SX	E	11	26	12.79	10.56	8.94	8.35
502-EN3P12M26S	EN3P12M26SX	E	12	26	13.54	12.31	11.02	9.28
502-EN3P15M26S	EN3P15M26SX	E	15	26	15.43	14.03	11.35	9.64
502-EN3P16M26S	EN3P16M26SX	E	16	26	18.04	16.39	13.28	12.03
502-EN3P18M26S	EN3P18M26SX	E	18	26	18.99	17.26	13.83	12.38
In-Line Cord Type								
502-EN3L3M16	EN3L3M16X	F	3	16	5.47	4.76	4.34	4.02
502-EN3L2M	EN3L2MX	F	2	20	4.25	3.81	3.62	3.38
502-EN3L3M	EN3L3MX	F	3	20	4.90	3.71	3.39	3.23
502-EN3L4M	EN3L4MX	F	4	20	5.53	4.20	3.85	3.70
502-EN3L5M	EN3L5MX	F	5	20	6.46	4.84	4.43	4.40
502-EN3L6M	EN3L6MX	F	6	20	7.15	5.36	4.91	4.74
502-EN3L8M	EN3L8MX	F	8	20	8.80	6.59	6.48	6.35
Cord Type								
502-EN3C3M16	EN3C3M16X	G	3	16	5.55	5.03	4.60	4.23
502-EN3C2MX	EN3C2MX	G	2	20	4.59	4.23	3.86	3.56
502-EN3C3MX	EN3C3MX	G	3	20	4.96	3.77	3.46	3.35
502-EN3C4MX	EN3C4MX	G	4	20	5.48	4.31	3.95	3.82
502-EN3C5MX	EN3C5MX	G	5	20	4.96	4.72	4.53	4.37
502-EN3C6MX	EN3C6MX	G	6	20	6.90	5.33	4.87	4.46
502-EN3C9M26S	EN3C9M26SX	G	9	26	8.40	7.93	7.50	7.12
* 502-EN3C9M26SLX	EN3C9M26SLX	G	9	26	10.64	10.04	9.50	9.02
502-EN3C10M26S	EN3C10M26SX	G	10	26	9.22	8.69	8.23	7.81
* 502-EN3C10M26SLX	EN3C10M26SLX	G	10	26	11.58	10.92	10.34	9.81
502-EN3C12M26S	EN3C12M26SX	G	12	26	13.28	12.52	11.86	11.21
502-EN3C14M26S	EN3C14M26SX	G	14	26	14.86	14.01	13.27	12.59
502-EN3C15M26S	EN3C15M26SX	G	15	26	15.76	14.86	14.07	13.35
502-EN3C16M26S	EN3C16M26SX	G	16	26	16.60	15.66	14.82	14.06
502-EN3C18M26S	EN3C18M26SX	G	18	26	19.26	18.16	17.18	16.31
* 502-EN3C18M26SLX	EN3C18M26SLX	G	18	26	18.02	17.00	16.09	15.27
Right Angle Type								
502-EN3P3MRAPC	EN3P3MRAPCX	H	3	20	8.75	6.59	6.05	5.75
502-EN3P4MRAPC	EN3P4MRAPCX	H	4	20	10.22	7.68	7.03	6.75
* 502-EN3P5MRAPC	EN3P5MRAPCX	H	5	20	11.93	8.95	8.20	7.90
502-EN3P6MRAPC	EN3P6MRAPCX	H	6	20	13.94	10.45	9.58	9.10
502-EN3P7MRAPC	EN3P7MRAPCX	H	7	20	15.33	11.50	10.54	9.95
* 502-EN3P8MRAPC	EN3P8MRAPCX	H	8	20	16.74	12.57	11.52	11.39