

Switchcraft®

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E SERIES RECEPTACLES

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E Series Q-G[®] Receptacles are available with quick release inserts. Quick insert release is accomplished by turning screw lock from front of insert. Insert can then be removed from the rear. For PC board applications, insert can be removed/assembled to the housing while soldered to the PC board.

E Series receptacles can be specified as complete assemblies, or as separate inserts and housings. Stocking separate inserts and housings offer considerable cost and time savings by minimizing inventory and maximizing configuration possibilities.

FEATURES

- * Replaces Neutrik D Series
- * 3-pin contact; male and female types
- * Both male and female fit in same panel cutout
- * Choice of 4 terminations; solder cups, conical springs, straight or right-angle PC terminals
- * Inserts and housings can be specified separately
- * Quick release inserts for ease of removal
- * Locking receptacles
- * Protected ground clip minimizes scooping damage
- * Insert lock detent resists disassembly from shock or vibration during normal handling and transportation
- * Silver and gold-plated contacts available
- * Rugged metal shells; black or satin nickel finishes
- * Through-the-shell ground connection and all-metal shells for greater shielding effectiveness
- * Compatible with Switchcraft Q-G[®], QGP and other connectors with similar configurations

QUICK RELEASE INSERT

In two simple steps, inserts can be released while housing stays fastened to the panel.

1. With a small screwdriver, twist insert locking screw from front of insert.
2. Remove insert from the rear of the housing.

SPECIFICATIONS

ELECTRICAL

Contact Resistance: 50 milliohms maximum, per pole.

Current Rating: 15A

Insulation Resistance: 2×10^6 M(ohm)

Dielectric Resistance: 1,000 V rms

Capacitance: 10 pF

MECHANICAL

Insertion/Withdrawal Forces: 7 pounds maximum/5 pounds nominal insertion; 7 pounds maximum/5 pounds nominal withdrawal.

Life: 10,000 operations (minimum).

ENVIRONMENTAL

Thermal Range: -55° C to +85° C

Humidity: Meets MIL-STD-202F, method 106E.

Thermal Shock: Meets MIL-STD-202F, method 107D.

Salt Spray: Meets MIL-STD-202F, method 101D.

MATERIAL

Shells: Die-cast; satin-nickel or Black Velvet.

Inserts: Glass-filled thermoplastic.

Socket Contacts: Copper alloy, silver- or gold-plated.

Pin Contacts: Copper alloy, silver- or gold-plated.

Latch Release: Steel, nickel-plated.

Insert Locking Cam: Die-cast zinc.

TERMINALS

Four terminations are available on E Series receptacles:

1. Conical Spring Solder terminals - conical spring on each pin holds wire in place providing constant pressure during soldering process. This effectively acts as a third hand, assuring a high quality solder termination. Housing mounts to panel.

2. Straight PC terminals - direct termination to PC board. Housing mounts to panel.

3. Right-angle PC terminals - direct termination to PC board at a right-angle. Housing mounts to panel.

3. SC - Solder cup

Each character (or absence thereof) in the part numbers listed above denotes one specific feature.

Character	Description
E	Series designator
3	3 pins or contacts
*	M -male connector; F -female connector
QG	Denotes insert only
H	Denotes housing only
B	Black housing (absence of 'B' denotes satin-nickel housing)
RA	Right-angle PC terminals (absence of 'RA' or 'ST' denotes conical spring solder terminals)
ST	Straight PC terminals (absence of 'ST' or 'RA' denote conical spring solder terminals)
AU	Gold contacts (absence of 'AU' denotes silver contacts)
D	Fas-disconnect
SC	Solder Cup



1. Conical Spring Solder Terminals, Straight PC Terminals and Right Angle PC Terminals

2. Receptacles with new solder cup option shown

INSERTS AND HOUSINGS

Inserts and housings can be ordered separately to make any possible combination of the following features:

- 1) Silver or gold contacts
- 2) Satin nickel or black chrome over nickel housing
- 3) Locking
- 4) Male or female connector
- 5) Conical spring solder terminals, solder cup, straight or right-angle PC terminals

HOUSINGS

Part Number	Description
EFH	Used for locking female; satin-nickel finish.
EMH	Used for male; satin-nickel finish.
EFHB	Used for locking female; black finish.
EMHB	Used for male; black finish.
EFDH	Used for non-locking females.
EFDHB	Used for non-locking females.

ORDERING

1. Order part numbers from table.
2. Inserts and housings can be ordered separately providing many variations.
3. Contact Switchcraft for all special order items.

INSERTS

Part number	Contacts	Terminals	Locking or Non-Locking	Type
□ E3FQG	Silver	Conical Spring Solder	Locking	F
E3FSTQG		Straight PC	Locking	F
E3FRAQG		Right-Angle PC	Locking	F
E3FSCQG		Solder Cup	Locking	F
E3MSCQG		Solder Cup	-	M
□ E3MQG		Conical Spring Solder	-	M
E3MSTQG		Straight PC	-	M
E3MRAQG		Right-Angle PC	-	M
□ E3FAUQG	Gold	Conical Spring Solder	Locking	F
E3FSTAUQG		Straight PC	Locking	F
E3FRAAUQG		Right-Angle PC	Locking	F
□ E3FSCAUQG		Solder Cup	Locking	F
E3MAUQG		Conical Spring Solder	-	M

E3MSCAUQG		Solder Cup	-	M
E3MSTAUQG		Straight PC	-	M
E3MRAAUQG		Right-Angle PC	-	M

COMPLETE CONNECTOR ASSEMBLIES SATIN NICKEL HOUSING

Part Number	Terminals	Locking or Non-Locking ¹	Contacts	Housing	Insert	Housing	Type ²
□E3F	Conical	Locking	Silver	Satin Nickel	E3FQG	EFH	F
□E3M	Solder				E3MQG	EMH	M
E3FSC	Solder	Locking			E3FSCQG	EFHB	F
E3MSC	Cup				E3MSCQG	EMHB	M
E3FST	Straight	Locking			E3FSTQG	EFH	F
E3MST	PC				E3MSTQG	EMH	M
E3FRA	Right-	Locking	Gold		E3FRAQG	EFH	F
E3MRA	Angle PC				E3MRAQG	EMH	M
□E3FAU	Conical	Locking			E3FAUQG	EFH	F
□E3MAU	Solder				E3MAUQG	EMH	M
E3FSTAU	Straight	Locking			E3FSTAUQG	EFH	F
E3MSTAU	PC				E3MSTAUQG	EMH	M
E3FRAAU	Right-	Locking			E3FRAAUQG	EFH	F
E3MRAAU	Angle PC				E3MRAAUQG	EMH	M

COMPLETE CONNECTOR ASSEMBLIES BLACK HOUSING

Part Number	Terminals	Locking or Non-Locking ¹	Contacts	Housing	Insert	Housing	Type
□E3FB	Conical	Locking	Silver		E3FQG	EFHB	F
□E3MB	Solder				E3MQG	EMHB	M
E3MSCB	Solder	Locking			E3FSCQG	EFHB	F
E3FSCB	Cup				E3MSCQG	EMHB	M
E3FSTB	Straight	Locking			E3FSTQG	EFHB	F

E3MSTB	PC		Black	E3MSTQG	EMHB	M
E3FRAB	Right-	Locking		E3FRAQG	EFHB	F
E3MRAB	Angle PC			E3MRAQG	EMHB	M
▫E3FBAU	Conical	Locking		E3FAUQG	EFHB	F
▫E3MBAU	Solder			E3MAUQG	EMHB	M
E3FSCBAU	Solder	Locking		E3FSCAUQG	EFHB	F
E3MSCBAU	Cup			E3MSCAUQG	EMHB	M
▫E3FSTBAU	Straight	Locking		E3FSTAUQG	EFHB	F
▫E3MSTBAU	PC			E3MSTAUQG	EMHB	M
▫E3FRABAU	Right-	Locking		E3FRAAUQG	EFHB	F
▫E3MRABAU	Angle PC			E3MRAAUQG	EMHB	M

FASDISCONNECT VERSIONS (DETENT)

Part Number	Terminals	Locking or Non-Locking ¹	Contacts	Housing	Insert	Housing	Type
▫E3FD	Conical Solder	Non-Locking	Silver	Satin-nickel	E3FDQG	EFDH	F
▫E3FDB				Black		EFDHB	F
▫E3FDAU		Non-Locking	Gold	Satin-nickel	E3FDAUQG	EFDH	F
▫E3FDBAU				Black		EFDHB	F
▫E3FDST	Straight PC	Non-Locking	Silver	Satin-nickel	E3FDSTQG	EFDH	F
▫E3FDSTB				Black		EFDHB	F
E3FDSTAU		Non-Locking	Gold	Satin-nickel	E3FSTAUQG	EFDH	F
▫E3FDSTBAU				Black		EFDHB	F
▫E3FDRA	Right-Angle PC	Non-Locking	Silver	Satin-nickel	E3FDRAQG	EFDH	F
▫E3FDRAB				Black		EFDHB	F
▫E3FDRAAU		Non-Locking	Gold	Satin-nickel	E3FDRAUQG	EFDH	F

⌘E3FDRABAU				Black		EFDHB	F
⌘E3FDSC	Solder Cup	Non-Locking	Silver	Satin-nickel	E3FDSCQG	EFDH	F
⌘E3FDSCB				Black		EFDHB	F
⌘E3FDSCAU		Non-Locking	Gold	Satin-nickel	E3FDSCAUQG	EFDH	F
⌘E3FDSCBAU				Black		EFDHB	F

⌘ Available on special order only; contact Switchcraft for price and delivery.

1 Not applicable to male connectors.

2 F-female connector; M-male connector

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