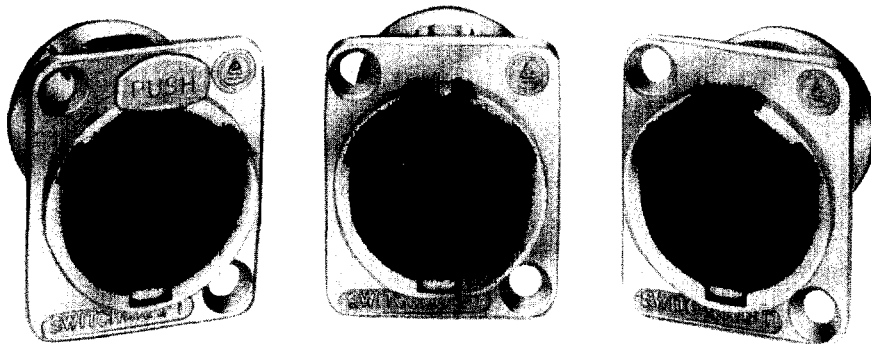


E SERIES RECEPTACLES



See Next Page
for New Solder
Lug Option

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.

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 spring solder terminals, 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.

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.
4. **SC** - Solder cup

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.

SPECIFICATIONS

ELECTRICAL

Contact Resistance: 50 milliohms maximum, per pole.

Current Rating: 15A

Insulation Resistance: 2×10^6 MΩ

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.

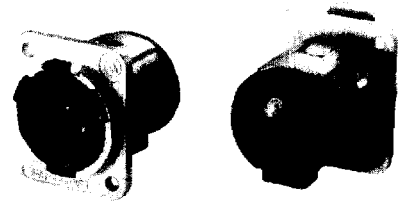
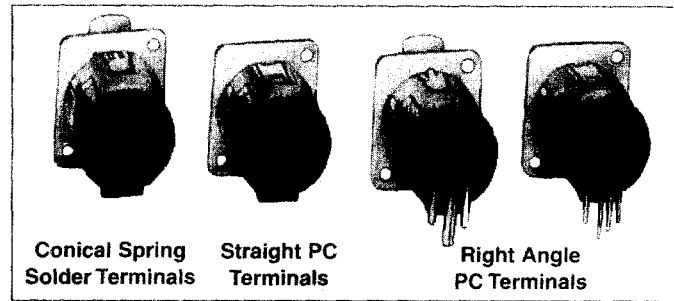
Insert Locking Cam: Die-cast zinc.

QG® PART NUMBERING SYSTEM

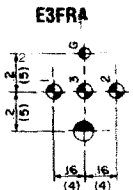
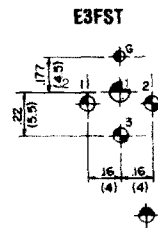
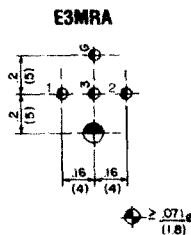
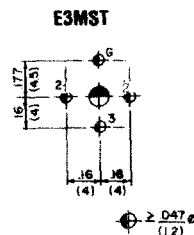
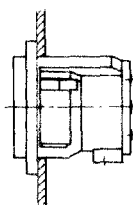
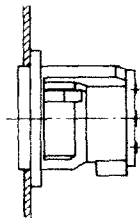
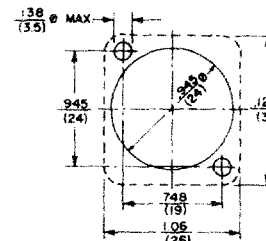
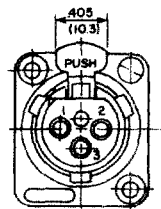
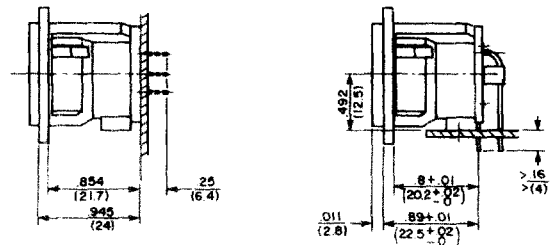
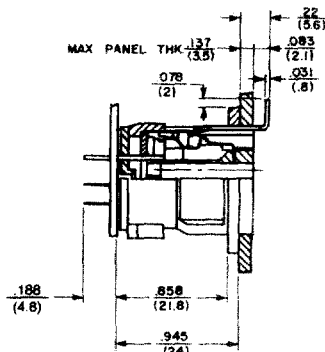
Each character (or absence thereof) in the part numbers listed above denotes one specific feature.

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

NEW!



Note: New solder cup option shown.



Component Side Layout

DIMENSIONS ARE FOR REFERENCE ONLY

NOTE: Contact your Switchcraft Representative for price and delivery.

All products shown in this catalog are covered by Switchcraft's limited lifetime warranty

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Q-G® RECEPTACLES (continued)

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 E3FSTQG E3FRAQG E3FSCQG	Silver	Conical Spring Solder	Locking	F
		Straight PC	Locking	F
		Right-Angle PC	Locking	F
		Solder Cup	Locking	F
E3MSCQG ◊E3MQG E3MSTQG E3MRAQG	Silver	Solder Cup	---	M
		Conical Spring Solder	---	M
		Straight PC	---	M
		Right-Angle PC	---	M
◊E3FAUQG E3FSTAUQG E3FRAUQG ◊E3FSCAUQG	Gold	Conical Spring Solder	Locking	F
		Straight PC	Locking	F
		Right-Angle PC	Locking	F
		Solder Cup	Locking	F
E3MAUQG E3MSCAUQG E3MSTAUQG E3MRAUQG	Gold	Conical Spring Solder	---	M
		Solder Cup	---	M
		Straight PC	---	M
		Right-Angle PC	---	M

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

1 Not applicable to male connectors.

2 F—female connector; M—male connector

COMPLETE CONNECTOR ASSEMBLIES SATIN NICKEL HOUSING

Part Number	Terminals	Locking or Non-Locking	Contacts	Housing	Insert	Housing	Type ^a
◊E3F ◊E3M	Conical Solder	Locking	Silver	Satin Nickel	E3FQG E3MQG	EFH EMH	F M
E3FSC E3MSC	Solder Cup	Locking			E3FSCQG E3MSCQG	EFHB EMHB	F M
E3FST E3MST	Straight PC	Locking			E3FSTQG E3MSTQG	EFH EMH	F M
E3FRA E3MRA	Right-Angle PC	Locking			E3FRAQG E3MRAQG	EFH EMH	F M
◊E3FAU ◊E3MAU	Conical Solder	Locking	Gold		E3FAUQG E3MAUQG	EFH EMH	F M
E3FSTAU E3MSTAU	Straight PC	Locking			E3FSTAUQG E3MSTAUQG	EFH EMH	F M
E3FRAAU E3MRAAU	Right-Angle PC	Locking			E3FRAUQG E3MRAUQG	EFH EMH	F M

COMPLETE CONNECTOR ASSEMBLIES BLACK HOUSING

Part Number	Terminals	Locking or Non-Locking	Contacts	Housing	Insert	Housing	Type	
◊E3FB ◊E3MB	Conical Solder	Locking	Silver	Black	E3FQG E3MQG	EFHB EMHB	F M	
E3MSCB E3FSCB	Solder Cup	Locking			E3FSCQG E3MSCQG	EFHB EMHB	F M	
E3FSTB E3MSTB	Straight PC	Locking			E3FSTQG E3MSTQG	EFHB EMHB	F M	
E3FRAB E3MRAB	Right-Angle PC	Locking			E3FRAQG E3MRAQG	EFHB EMHB	F M	
◊E3FBAU ◊E3MBAU	Conical Solder	Locking	Gold		Black	E3FAUQG E3MAUQG	EFHB EMHB	F M
E3FSCBAU E3MSCBAU	Solder Cup	Locking				E3FSCAUQG E3MSCAUQG	EFHB EMHB	F M
◊E3FSTBAU ◊E3MSTBAU	Straight PC	Locking				E3FSTAUQG E3MSTAUQG	EFHB EMHB	F M
◊E3FRABAU ◊E3MRABAU	Right-Angle PC	Locking				E3FRAUQG E3MRAUQG	EFHB EMHB	F M

FASDISCONNECT VERSIONS (DETENT)

Part Number	Terminals	Locking or Non-Locking	Contacts	Housing	Insert	Housing	Type
◊E3FD ◊E3FDB	Conical Solder	Non-Locking	Silver	Satin-nickel Black	E3FDQG	EFDH EFDHB	F F
◊E3FDAU ◊E3FDBAU	Straight PC	Non-Locking	Gold	Satin-nickel Black	E3FDAUQG	EFDH EFDHB	F F
◊E3FDST ◊E3FDSTB		Non-Locking	Silver	Satin-nickel Black	E3FDSTQG	EFDH EFDHB	F F
E3FDSTAU ◊E3FDSTBAU		Non-Locking	Gold	Satin-nickel Black	E3FDSTAUQG	EFDH EFDHB	F F
◊E3FDRA ◊E3FDRAB	Right-Angle PC	Non-Locking	Silver	Satin-nickel Black	E3FDRAQG	EFDH EFDHB	F F
◊E3FDRAAU ◊E3FDRABAU	Solder Cup	Non-Locking	Gold	Satin-nickel Black	E3FDRAUQG	EFDH EFDHB	F F
◊E3FDSC ◊E3FDSCB		Non-Locking	Silver	Satin-nickel Black	E3FDSCQG	EFDH EFDHB	F F
◊E3FDSCAU ◊E3FDSCBAU		Non-Locking	Gold	Satin-nickel Black	E3FDSCAUQG	EFDH EFDHB	F F

NOTE: Contact your Switchcraft Representative for price and delivery.