

CONNECTORS:

Audio, DIN, General Purpose, AC Cords & Receptacles

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for details, contact:



SWITCHCRAFT

PUSH

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SWITCHCRAFT[®]

CONNECTORS:

Audio, DIN, General Purpose, AC Cords & Receptacles



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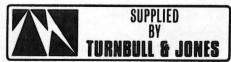
NOTE: To quickly locate part numbers, see page 47 for part number/ page number cross-reference guide.

Registered tradename of Switchcraft, Inc.

SECTION 1

TINI "QG" MINIATURE CONNECTORS & "QG" CONNECTORS

0 0 Ø 0 0 PUSH Actual size U.S. Patent No. 4,316,647



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Tini "Q-G" MINIATURE CONNECTORS

MICROPHONES-

Ideal for "live" performances, recording sessions, and audio pickups. Nickel finish blends with all surroundings and mini-mizes reflected glare and "hot" spots under intense lighting. Disconnecting plugs from lavaliere or "clip-on" mikes is QUICK and EASY ... press the release button and pull the plug free. Either shielded or unshielded cables can be used up to 0.115 in. (2.92 mm) in diameter (standard). Cable shield may either be connected to a pin/contact through circuit or may be connected to the cable clamp strain relief. This alternate connection permits using the metal housings of plugs to completely shield internal connections and pins/contacts.

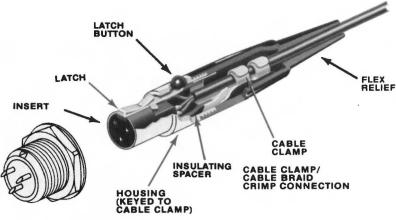
Series TA(*)F & TA(*)FL-Straight female cord plug Series TA(*)M & TA(*)ML-Straight male cord plug Series TB(*)M-Chassis/panel mount male receptacle Series TY(*)F & TY(*)FPC-Chassis/panel, female receptacle, choice of solder lugs or P.C. terminations.

INSTRUMENTATION -

Design trends move toward more compact instruments, even while circuit density increases dramatically. Smaller package sizes demand smaller connectors without sacrificing quality.

Tini "Q-G" plugs and receptacles have the quality and versatility of functions and features for the most demanding connections in industrial, R&D and production instrumentation of all kinds. The 4- and 5-pin/contact versions are especially suited to multi-circuit connections.

On special order, a maximum cable diameter of 0.170 in. (4.32 mm) is possible when flex relief bushing is not used.



DESIGN FEATURES

MOUNTING – Recommended Mounting:

Receptacle Series	Panel M Front	lounting Rear	Term P.C.	ination Solder
TB(*)M	X		X*	X
TY(*)F	X	X		X
TY(*)FPC	X	X	X	

*P.C. board termination is recommended alternate method.

NOTE: Refer to page 6 for complete mounting data

Panel/Chassis Thickness:

Series TB(*)M: .25 in. (6.35 mm) max. Series TY(*)F: Front-.375 in. (9.5 mm) max. Rear-.093 in. (2.3 mm) max.

Series TY(*)FPC: Front-.312 in. (7.9 mm) max. Rear-.093 in. (2.3 mm) max.

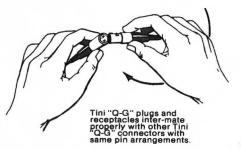
LATCHLOCK-Positive latch system assures high integrity, vibration-resistant mating and transfer of shielding connection between housing ... combined with simple, easy fingertip release.

STRAIN RELIEF-Rugged internal clamp holds cable tightly, while making a secure, low resistance connection between cable shield and housing.

FLEX RELIEF-Protects by minimizing cable bending stress at point of cable entry. Maxi-mum recommended cable dia. is .115 in. (2.92 mm) when bushing is used. By omitting bushing (Series T(*)FL & T(*)ML only), cable up to .170 in. (4.32 mm) dia. can be employed.

ASSEMBLY-Connector parts are mechanically keyed for simple, fool-proof assembly. **POLARIZATION**—Mating male and female connectors are also mechanically keyed (latch and groove) so that it is impossible to mate them incorrectly.

"SCOOP-PROOF FEATURE—Fully recessed pins on male plugs and receptacles cannot be "scooped", i.e., bent or damaged by accidental mismating with mating connector (see illustration).



COLOR ESCUTCHEONS — Attractive color escutcheons, Series TYEF, are recom-mended for use with Series TY(*)F and TY(*)FPC receptacles (when rear mounted) for attractive panel trim, as well as color coding one or more connectors. Colors are: red, black, grey, green, blue, white and yellow.

CUSTOM Tini "Q-G" CABLE ASSEMBLIES -On special order where production quantities warrant, Switchcraft can supply assembled and tested Tini "Q-G" cables NOTE: Refer to page 6 for adapters to convert Tini "Q-G" to full size audio connections.

STYLE-Streamlined, miniaturized with nickel plated metal and pleasantly contrasting black plastic parts. Designed for light weight and quiet unobtrusiveness ... features desired by the most active performer or speaker.

CONSTRUCTION-Metal parts are rugged die cast or precision machined with nickel plating; Plastic parts are molded of highdimensional-stability thermoplastic. Advanced design assures minimum weight consistent with strength and durability of cord plug housings of .413 in. (10.5 mm) dia. Weight: Series TA(*)F plug = .25 oz. (7 g); Series TA(*)M = .3 oz. (8.5 g).

INSERTS-Precision molded of thermoplastic for high mechanical and dielectric strength. Contacts and terminals are precision formed and silver plated for intimate contact and low resistance connections. Terminal numbers are molded on rear of male insert (and on face of female insert) for easy terminal identification.

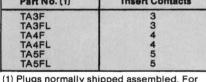
INSERT ARRANGEMENTS



TERMINAL VIEWS OF PINS

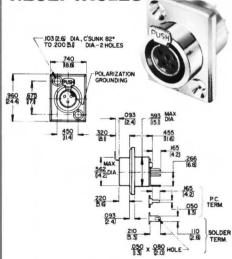
Inserts can be supplied for OEM installation In microphones and instrumentation for optimum connecting reliability. For cord plugs, inserts can also be supplied for replacements





 Plugs normally shipped assembled. For large orders, plugs can be shipped disassembled for approx. 10% lower price (special order only).

TY(*)F & TY(*)FPC RECEPTACLES



Female receptacle mounts in minimum space from front or rear panel or chassis. Terminals are solder lugs, Series TY(*)F, or P.C., Series TY(*)FPC. All receptacles have separate ground lug.

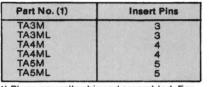
Part No.	Insert Contacts
TY3F	3
TY3FPC	3
TY4F	4
TY4FPC	4
TY5F	5
TY5FPC	5

TA(*)M & TA(*)ML CORD PLUG



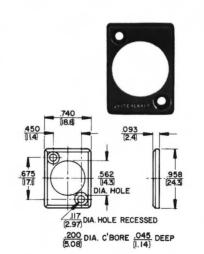


STRAIGHT MALE CORD PLUG.



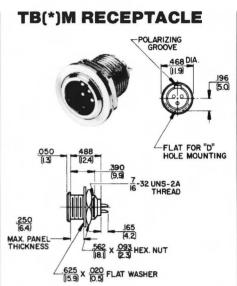
 Plugs normally shipped assembled. For large orders, plugs can be shipped disassembled for approx. 10% lower price (special order only).

TYEF ESCUTCHEONS



Trim escutcheons in seven colors for use with Series TY(*)F and TY(*)FPC receptacles. Escutcheons recommended for rear mount receptacles. Escutcheons must be ordered separately.

Part No.	Color
DTYEF-01	Red
TYEF-02	Black
TYEF-03	Green
TYEF-04	Blue
TYEF-05	White
TYEF-08	Yellow
TYEF-11	Grev



Male receptacle for chassis/panel mounting. Specially designed flange permits close (front) mount on crowded panels. Recommended for either wire leads or P.C. termination. Mounting hardware supplied.

Part No.	Insert Pins
ТВЗМ	3
TB4M	4
TB5M	5

TQG(*)F & TQG(*)M CONNECTOR INSERTS



Male and female inserts with 3, 4 or 5 pins/ contacts. For replacement (cord plugs only) or build-into equipment, such as microphones, transducers, instruments, etc.

Male Inserts

Part No.	Insert Pins
TOG3M	3
TQG4M	4
TQG5M	5

Female Inserts

Part No.	Insert Contacts
TOG3F	3
TQG4F	4
TQG5F	5

*Number of insert contacts or pins must be specified to complete Part Number.

@Special order only; contact factory for price and delivery.

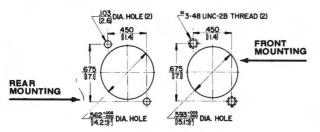
NOTE: Contact your Switchcraft Representative for pricing.

We reserve the right to change the prices, specifications and/or part numbers contained herein when circumstances make it necessary.

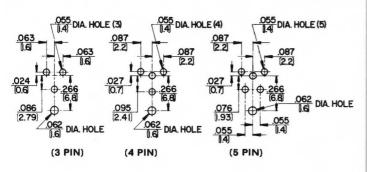
Tini "Q-G" MINIATURE CONNECTORS

MOUNTING HOLE DETAIL

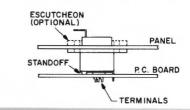
SERIES TY(*)F, TY(*)FPC



RECOMMENDED P.C. BOARD LAYOUT



COMBINED P.C./PANEL MOUNTING



SPECIFICATIONS:

ELECTRICAL

Contact Resistance: .010 ohms max. after life (and after salt spray). Current Rating: 4 A max. carry only, 125 V AC. Insulation Resistance: 510,000 megohms min. @ 500 V DC (initial); 10,000 megohms min. (after humidity test). Dielectric Strength: 1,000 V (ms).

MECHANICAL Life: 5,000 operations. Insertion/Withdrawal Forces: 6.1 lb./2.77 kgm. after life, insertion; 5.6 lb/2.54 kgm. after life, withdrawal. Solderability Standard: Meets EIA 178/ANSI C-83.93-1973; superceded by EIA RS-186-9E. Mechanical Shock: Meets MIL-STD-202E, method 213B. Vibration: Meets MIL-STD-202E, method 201A.

ENVIRONMENTAL Thermal Range: -55°C to +85°C. Humidity: Meets MiL-STD-202E, method 106D. Thermal Shock: Meets MiL-STD-202E, method 107D. Salt Spray: Meets MIL-STD-202E, method 101.

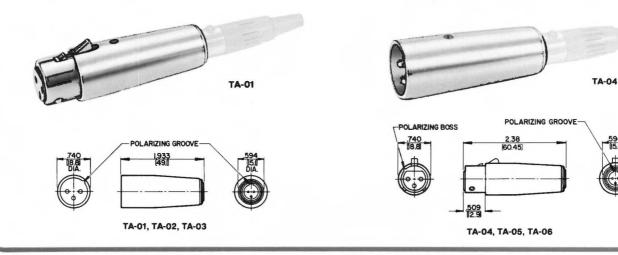
MATERIAL Housing: Plugs & Male Receptacles – Brass, nickel plated. Female Receptacle – Die-cast zinc, nickel plated. Pin & Socket Contacts: Copper alloy, silver plated. Flex Relief: Molded black thermoplastic elastomer. Latch Button: Molded black thermoplastic. Release Lever & Mounting Washer: Steel, nickel plated. Standoff/Ground Terminal & Cable Clamp: Steel, electrotinned. Inserts & Insulating Spacer: Molded, high strength thermoplastic. Latch (Female): Beryllium copper, nickel plated. Mounting Nut: Brass, nickel plated. MATERIAL

Tini "Q-G" AUDIO ADAPTERS, SERIES TA

To adapt Tini "O-G" connections to standard audio connectors. Series TA Tini "Q-G" audio adapters have been designed. Tini "Q-G" adapters convert to Switchcraft "Q-G" and QGP connectors and similar full size connectors

	Mates With		
Part No.	Tini "Q-G" End	"Q-G" End ¹	
TA-01	TA3F	A3M	
TA-02	TA4F	A4M	
TA-03	TA5F	A5M	
TA-04	TASE	A3F	
TA-05	TA4F	A4F	
TA-06	TA5F	A5F	

1. Typical mating "Q-G" listed; see pp. 19-20 for mating information.



"O-G" CONNECTORS

Switchcraft "Quick-Ground"* 3-, 4-, 5-, 6-, and 7-contact quality audio connectors with exclusive "Ground Terminal" and "Ground Contactors" are available in a wide range of plugs and receptacles— at competitive prices. "Q-G" connectors have been field proven in a wide variety of critical applications, including use with microphones, test equipment, instrumentation, computers, cameras, tape recorders, PA and sound-reinforcement systems, stereo and hi-fi equipment-and many more.

QGP series audio connectors are the result of years of research and development, designed to eliminate problems faced by professionals in all areas of sound . . . from studios to rock concerts. The QGP series connectors meet all connecting & mounting requirements ... and mate with existing connectors such as Switch-craft "QG" and other similar connectors. QGP connectors are available with 3 pins/contacts only. Special features include Vel-Tone non-reflective finish, gray neoprene strain relief and gold plated pins/contacts.

SPECIFICATIONS:

ELECTRICAL

(QG Connectors Only)

Contact Resistance: 50 milliohm max., per pole.

Current Rating: 3 pole-15 A; 4 pole-10 A, 5 & 6 pole-7.5 A; 7 pole-5 A. Insulation Resistance: 1,000 meaohms, min.

Dielectric Withstanding Voltage: 1,000 V (rms).

Capacitance: 2 Pf between pins and 4 Pf between pins and shell, max. (A3M & A3F).

MECHANICAL

(QG Connectors Only)

Insertion/Withdrawal Forces: 7 lb. max., 5 lb. nominal, insertion; 7 lb. max., 5 lb. nominal, withdrawal.

MATERIAL

QG Connectors

Shell: Die-cast zinc. Satin nickel finish on all shells, except a black, electrically conductive, chrome plate finish on "Black-Velvet" shells.

- Insert Insulation: High-impact, molded thermo-setting plastic. Socket Contacts: Phosphor bronze, silver plated, chromate dipped; bifurcated on 3-contact type.
- Pin Contacts: Brass, silver plated, chromate dipped. Resists tarnishing, and provide excellent electrical conductivity.

Latchlock: High-strength die-cast zinc

Latch Release: Steel, nickel plated.

Latch Detent: Formed stainless steel.

Insert Screw: Stainless steel

Cable Relief Bushing: Neoprene.

Mounting Nut and Washer: Brass, nickel plated. (Black, electrically conductive chrome plate finish for "Black Velvet" receptacles).

Mounting Wall Plates: Cold-rolled steel, with stainless steel finish.

QGP Connectors

Shell: Die-cast zinc, non-reflective Vel-Tone finish.

Insert Insulation: High strength, reinforced thermoset plastic.

Socket Contacts: Phosphor bronze, 50 microinch gold (over 50 microinch nickel) plated

Pin Contact: Brass, 50 microinch gold (over 50 microinch nickel) plated. Latchlock: Die-cast zinc, non-reflective nickel finish.

Latch Release: Steel, nickel plated.

Cable Relief Bushing: Flexible gray neoprene.

Barrel: (Female connectors only) Stainless steel.

Mounting Screws: Stainless steel, passivated, non-reflective finish.

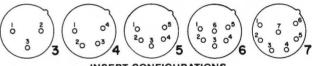
Spanner Nut: (QGP-3-28) Die-cast zinc, nickel plated.

Nut: (QGP-3-29) Brass, nickel plated. Washer: (QGP-3-29) Steel, nickel plated.

EXCLUSIVE SWITCHCRAFT GROUNDING AND SHIELDING:

In many applications, grounding of connector shells is desirable for shielding. Switchcraft "Q-G" connectors provide firm and constant electrical ground continuity between mating connector shells through use of an exclusive "Ground Terminal" and "Ground Contactors." An insert mounting screw, when tight-ened against the connector shell, establishes electrical continuity between "Ground Terminal". "Ground Contactors", and the connector housing. Upon engagement with a mating connector or receptacle, the ground circuit is automatically connected to the mating shell through the Switchcraft "Ground Contactor".

FACE VIEW OF PIN (MALE) INSERTS



INSERT CONFIGURATIONS

Any selected pin/contact can be grounded to the shell readily by "jumping" it to the "Ground Terminal". Contact No. 1 engages before all other contacts and disengages after all other contacts. With Switchcraft "Q-G" you receive full contact versatility-plus the exclusive shell "ground" provision.

DESIGN FEATURES:

STYLE: Fresh, streamlined design to enhance the appearance of the most modern equipment.

CONSTRUCTION: Sturdy, die-cast zinc with satin nickel finish or "Black-Velvet" finish to withstand hard use-even abuse. Vel-Tone non-reflective finish on QGP connectors only.

INSERT INSULATION: New, exclusive high-impact, molded thermosetting plastic provides high dielectric strength, superior insulation resistance.

LOCKING: Latchlock on female plugs and receptacles locks into groove in mating male connector to prevent accidental disconnect. Manual release of latchlock is required to separate connectors. "Q-G" connectors are also available with FAS-DISCONNECT detent in place of latchlock. QGP has die-cast latchlock.

FAS-DISCONNECT: FAS-DISCONNECT detent permits immediate disconnect of locked connectors with a 4-lb. (1.8 kg) force. See pages 8 thru 11. NOTE: FAS-DISCONNECT connectors are not recommended for use in situation where strong or violent pulls on cable may occur that might cause accidental disconnect. Available on "QG" connectors only.

DUAL PRESSURE PLATES: Provides secure cable lock and strain relief for all standard size cables.

BUSHINGS: Neoprene cable strain relief bushing on cord plugs is keyed to shell. Standard bushing opening accepts cables up to .25-in. (6.25 mm) dia. Gray neoprene strain relief on QGP connectors only.

Bushings for multiple cond. cables can be supplied to accept cables up to .328-in. (8.33 mm) dia. Code letter "L" in last or next-to-last character in part number indicates a cord plug with large bushing opening.

CONTACTS: QG female contacts are phosphor bronze, silver plated, chromate dipped; male contacts are brass, silver plated, chromate dipped. QGP female contacts are phosphor bronze, 50 microinch gold (over 50 microinch nickel) plated; male contacts are brass, 50 microinch gold (over 50 microinch nickel) plated.

WIRING: Large, unique design solder cups make wiring fast and easy. Certain receptacles are also available with PC terminals for use with printed circuit boards.

SWITCHCRAFT[®]

"Q-G" CONNECTORS

DESIGN FEATURES (Cont'd.)



BIFURCATED CONTACT

BIFURCATED CONTACTS (3-contact connectors): Extra positive grip on mating pins, even under conditions of severe shock and vibration.

POLARIZATION: Connectors are designed so that it is virtually impossible to mate them incorrectly. Polarization is accomplished both by means of contact configuration and polarizing boss (female connectors) and groove (on male connectors).

MATING: "Q-G" connectors mate with other connectors that have a similar insert configuration and identical number of pins/contacts. (See cross reference guide and mating chart –pages 19-20.)



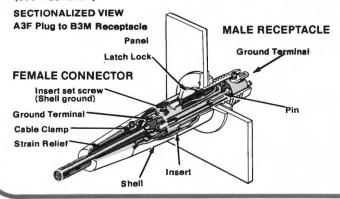
Insert screw engages as any conventional screw, except it is lefthand threaded. To disassemble the connector, turn screw counterclockwise down into insert (see illustration).



Insert assembly is now readily removed from shell. Note "Ground Terminal" area—large soldering cups make cable installation fast and easy. Unitized 1-piece insert eliminates possible loss of latchlock and spring (see illustration).

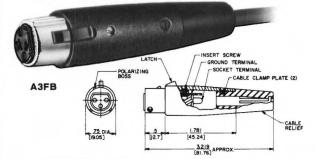


To reassemble, replace insert assembly into shell, align insert screw under hole in shell and secure insert by turning insert screw clockwise. This "wedges" insert against interior of shell providing a rigid connector assembly and positive electrical continuity between "Ground Terminal" and shell (see illustration).



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

A(*)F CORD PLUG

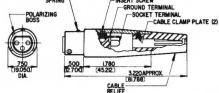


Straight female cord plug with standard latchlock. Satin nickel finish, except "Black-Velvet" type (Series A*FB).

Part No.	Part No.	Part No.1	Part No.	Insert Contacts
A3F	A3FB	A3FL	QGP-3-22	3
A4F	-	A4FL		4
A5F		ASFL		5
A6F		⊕A6FL		6
A7F				7

A(*)FD CORD PLUG

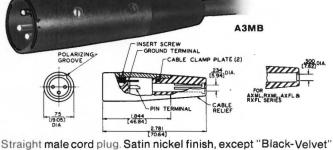




Straight female cord plug with FAS-DISCONNECT detent.

Part No.	Part No.1	Insert Contacts
A3FD	⊕A3FLD	3
A4FD		4
A5FD		5
+ A6FD		6
+A7FD	Pression -	7

A(*)M CORD PLUG



Straight male cord plug. Satin nickel finish, except "Black-Velvet" type (Series A*MB).

Part No.	Part No.	Part No.	Part No.	Insert Contacts	
A3M	A3MB	A3ML	QGP-3-23	3	
A4M		A4ML		4	
A5M		A5ML		5	
A6M	-	⊕A6ML		6	
A7M		⊕A7ML		7	

NOTE: Contact your Switchcraft Representative for pricing.

We reserve the right to change the prices, specifications and/or part numbers contained herein when circumstances make it necessary.

"Q-G" CONNECTORS

R(*)F CORD PLUG

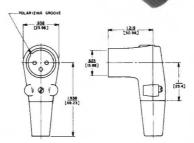


Right angle female cord plug with standard latchlock.

Part No.	Part No.1	Insert Contacts
R3F	R3FL	3
R4F	R4FL	4
R5F	R5FL	5
R6F		6
R7F		7

R(*)M CORD PLUG

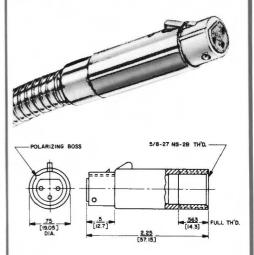




Right angle male cord plug.

Part No.	Part No ¹	Insert Pins
R3M	R3ML	3
R4M	R4ML	4
R5M	R5ML	5
BR6M		6
R7M		7

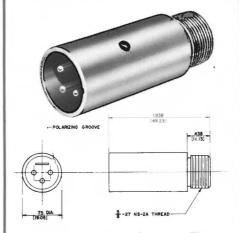
P(*)F MICROPHONE PLUG



Female microphone plug for gooseneck mount. Fits standard gooseneck with external 5/8-27 thread. Microphone plugs directly into connector. (Gooseneck not supplied.)

Part No.	Insert Contacts	
P3F	3	
⊕P4F	4	
⊕P5F	5	

P(*)M GOOSENECK PLUG

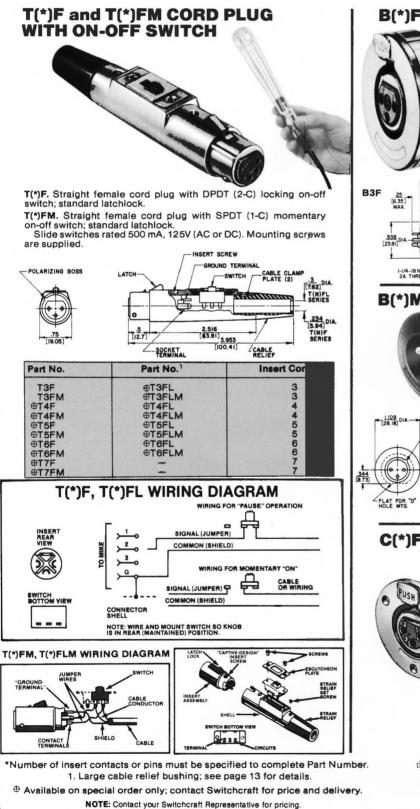


Male plug for gooseneck mount. Fits standard gooseneck with internal 5/8-27 thread. Use on gooseneck with microphone plug on opposite end. Plugs directly into female receptacle. (Gooseneck not supplied.)

Part No.	Insert Pins
P3M	3
⊕ P4M	4
@ PAM	5

*Number of insert contacts or pins must be specified to complete part number. 1. Large cable relief bushing; see page 13 for details.

"Q-G" CONNECTORS, PLUGS, RECEPTACLES



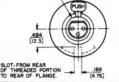
B(*)F RECEPTACLE



Panel mount female receptacle. Mounts with spanner nut from front of panels up to .4375-in. (11.11 mm) thick. Slot in threaded part of housing permits non-turn mounting. Requires 1.25-in. (31.75 mm) dia. min. mounting hole. Spanner nut is die-cast zinc with satin nickel finish (Series B*F) or "Black-Velvet" finish (Series B*FB).

art No.	Part No.	Insert Contacts
B3F	B3FB	3
B4F		4
B5F		5
B6F		6
B7F		7

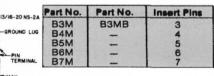
POLARIZING BOSS



B(*)M RECEPTACLE



Panel mount male receptacle. Mounts with locknut from front of panels up to .25-in. (6.35 mm) thick. Requires .812-in. (20.64 mm) dia. mounting hole. For non-turning mounting, can be keyed to "D"shaped panel hole, or S-3519 mounting adapter can be used (see page 13. Satin nickel finish (Series B*M) or "Black-Velvet" finish (Ser ies B*MB).

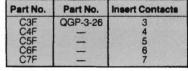


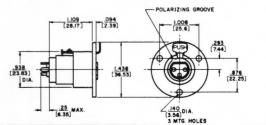
C(*)F RECEPTACLE

6.35 MAX. PANEL

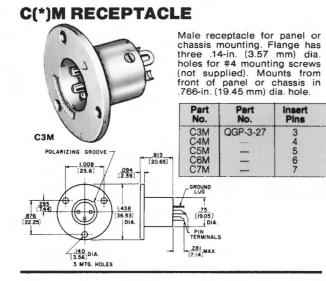


Female receptacle for panel or chassis mounting. Flange has three .14-in. (3.57 mm) dia. holes for #5-40 mounting screws (not supplied). Mounts from front of panel or chassis in 0.953-in. (24.21 mm) dia. hole.

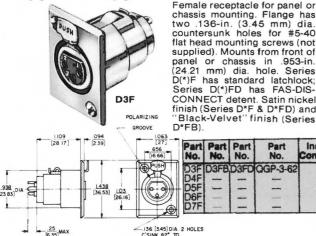




Q-G RECEPTACLES



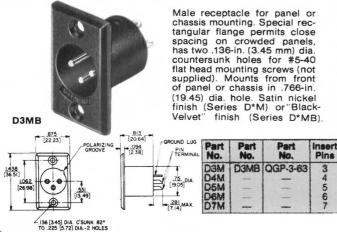
D(*)F and D(*)FD RECEPTACLES



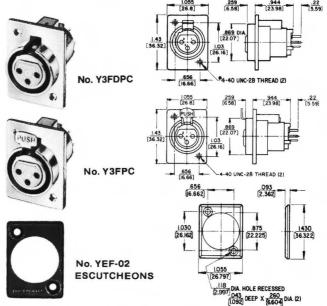
chassis mounting. Flange has two .136-in. (3.45 mm) dia. countersunk holes for #5-40 flat head mounting screws (not supplied). Mounts from front of panel or chassis in .953-in. (24.21 mm) dia. hole. Series D(*)F has standard latchlock; Series D(*)FD has FAS-DIS-CONNECT detent. Satin nickel finish (Series D*F & D*FD) and "Black-Velvet" finish (Series

	[2 39]	[27] 656 [16 66]	Part No.	Part No.	Part No.	Part No.	Inser Contac
_		Push	D3F	D3FB	D3FD	QGP-3-62	3
	1438		D5F	-	-	-	5
	[36.53] <u>LO3</u> [26.16]		D6F	-		1 - A A	6
			un				1
		-136 [3.45] DIA C'SINK 82" TO 225 [5.72] DIA					

D(*)M RECEPTACLE



SERIES Y(*)F, Y(*)FPC, Y(*)FD, and Y(*)FDPC RECEPTACLES



Series Y(*)F, Y(*)FPC. Female Receptacles with standard latchlock, for panel or chassis mounting. Y(*)F-standard solder terminals; Y(*)FPC-PC terminals and standoffs. Rear of panel mount in .875-in. (22.22 mm) dia. hole. Max. panel thickness-...25-in (6.35 mm); .156-in. (3.96 mm) if YEF Escutcheon is used

Series Y(*)FD, Y(*)FDPC. Female receptacles. Same as Y(*)F and Y(*)FPC, respectively, except with FAS-DISCONNECT detent. Series YEF Escutcheons. Trim escutcheons provide distinctive panel appearance, can also color code connections. Available in black (std.), red, green, white, and yellow. Other colors possible

on special order where production quantities warrant.

ASSEMBLY/MOUNTING

All receptacles are rear-of-panel mount (units with PC terminals also mount terminate to PC board). Flange fastens to chassis/ panel with two #4-40 machine screws (not supplied). Use of escutcheons is optional.

Install latch release lever (Series Y(*)F and Y(*)FPC) after receptacle is fastened to chassis/panel. Insert lever in slot from front and press inward until it locks ("snaps") into place. To remove lever, depress rear of lever (with screwdriver) through opening at top rear of housing and pull lever straight out.

RECEPTACLES

Part Numbers			A BURNER STOL	
Female Latchlock†	Female Detent†	Insert Contacts	Part No. Male†	Inser Pins
⊕Y3F Y3FPC	Y3FD Y3FDPC	3	Y3MPC	3

†Suffix letters "PC" indicate PC terminals; all others have solder lugs.

ESCUTCHEONS

Part No.	Color	Part No.	Color
⊕YEF-01 YEF-02	Red Black	YEF-04 ⊕YEF-05	Blue White
⊕YEF-03	Green	⊕YEF-08	Yellow

*Number of insert contacts or pins must be specified to complete part number. Available on special order only; contact Switchcraft for price and delivery

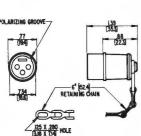
SWITCHCRAFT[®]

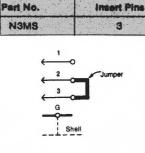
SHORTING PLUG, PANEL AND WALL PLATE RECEPTACLES

N3MS SHORTING PLUG



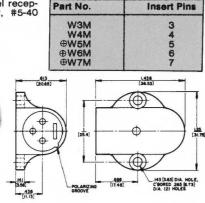
3-pin plug shorts out unused hi-Z mic. inputs or other sensitive circuits (shorting jumper installed between pins 2 & 3). 6-in. (152.4 mm) chain fastened to end pin to prevent plug loss. Switchcraft can install special wiring for a nominal extra charge; please inquire.





W(*)M RECEPTACLE

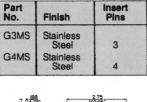
Right angle male panel recep-tacle. Mounts with 2, #5-40 machine screws

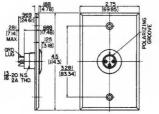


G(*)M WALL PLATE RECEPTACLE

Wall plate with one B3M or B4M male receptacle mounted (in "D"-shaped hole to prevent turning) on standard single electrical outlet box. Cover mounting screws included.



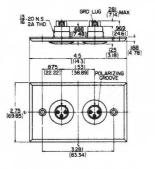




H(*)M WALL PLATE RECEPTACLE

Wall plate with two, B3M or B4M male receptacles mounted (in "D"-shaped holes to prevent turning) on standard single electrical outlet box. Cover mounting screws in-cluded.

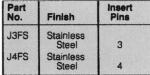
Part No. Finish		Insert Pins
H3MS	Stainless Steel	3
H4MS	Stainless Steel	4

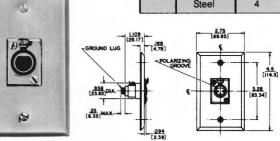




J(*)F WALL PLATE RECEPTACLE

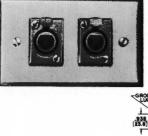
Wall plate with one, D3F or D4F female receptacle. Mounts on standard single electrical outlet box. Cover mounting screws included.



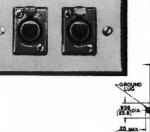


K(*)F WALL PLATE RECEPTACLE

Wall plate with two, D3F or D4F female receptacles. Mounts on standard single electrical outlet box. Cover mounting screws included.



Part No.	Finish Pins	
K3FS	Stainless Steel	3
K4FS	Stainless Steel	4



1.641 4.5

2.39

*Number of insert contacts or pins must be specified to complete Part Number. Available on special order only; contact Switchcraft for price and delivery. NOTE: Contact your Switchcraft Representative for pricing.

"Q-G" ADAPTERS, INSERTS, ACCESSORIES

"Q-G" CONNECTOR INSERTS





QG3F



Part Numbers Female Inserts*

Standard Latchlock	FAS- DISCONNECT	Maie Inserts	Insert Pins/ Contacts
QG3FPC	QG3FDPC		3
QG3F	QG3FD	QG3M	3
QG4F	QG4FD	QG4M	4
QG4F	QG4FD	QG4M	4
OG5F	QG5FD	QG5M	5
QG6F	QG6FD	QG6M	6
QG7F	QG7FD	QG7M	7

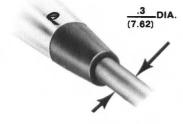
*Suffix letters "PC" indicate PC terminals; all others have solder lugs.

Male and female "Q-G" inserts with 3 thru 7 pins/contacts, fit appropriate plug and recep-tacle housings. Female inserts available with standard latchlock or FAS-DISCONNECT detent mating, and with solder or PC termi-nals. Intended for replacement, or building into equipment such as microphones, trans ducers, etc.

"Q-G" ACCESSORIES

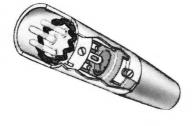
Part No. M-1437

Part No. S-3519



"Q-G" LARGE CABLE RELIEF BUSHING

Cable relief bushing with larger opening ac-commodates cables from .25-in. (6.35 mm) to .328-in. (8.33 mm); larger cables are often needed for multiple-conductor instrumenta-tion. Code letter "L" in last or second to last digit in part no. indicates plug with large bushing.



"Q-G" NOISE SUPRESSION RING

"Sawtooth" shape applies pressure to both halves of mated "Q-G" connectors, thereby effectively suppressing noise pickup due to mechanical vibration. Designed particularly for hi-Z pickups and environments with undesirable vibration. Molded black thermoplastic.



ADAPTER

Use with B(*)M and chassis receptacles to prevent turning of receptacle. Eliminates need for providing a flatted, "D" shaped hole.

1.188

"Q-G" CONNECTOR-ADAPTERS

Switchcraft "Q-G" Connector-Adapters, designed to solve common interconnection problems, are ideally suited to the interconnection of microphones, mixers, amplifiers, public address and sound reinforcement equipment, broadcast equipment, and any other component that does not have an appropriate mating connector. All are completely shielded, and incorporate the high quality and outstanding design features of the Switchcraft line of "Q-G" Audio Connectors, including:

See pages 7 & 8.

- Separate "Ground Terminal". Ground Contactors. 1.
- 2.
- 3. "Captive Design" Insert Screw
- High impact Thermosetting plastic 4 Insulation.

MATERIAL SPECIFICATIONS:

(for items on pages 14 through 17)

Phone Jack & Plus Terminations: Shell: Brass, nickel plated. Insulation: Paper-base phenolic. Plug Tip & Sleeve: Brass, bright nickel plated.

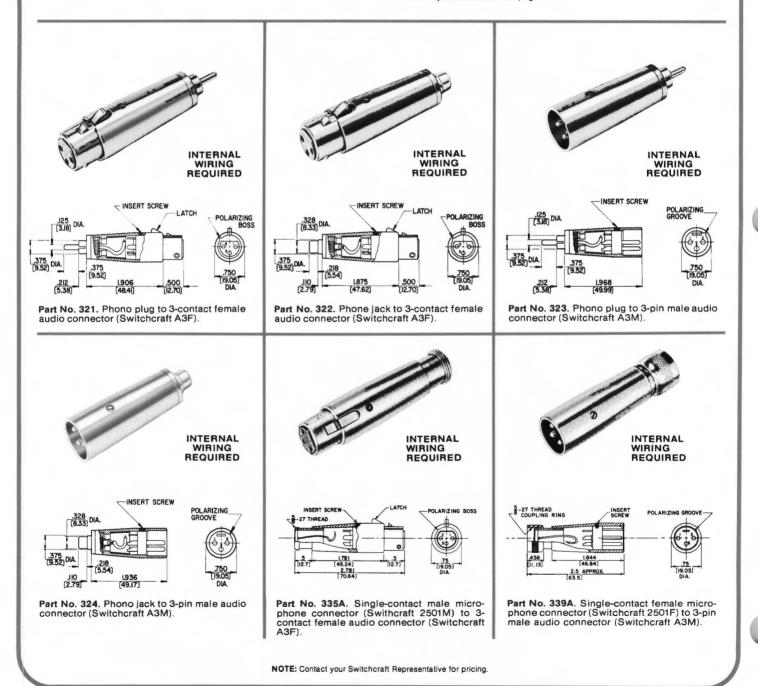
BNC Terminations:

Connector Housing & Contact Pin: Brass, silver plated. Insulation: Teflon.

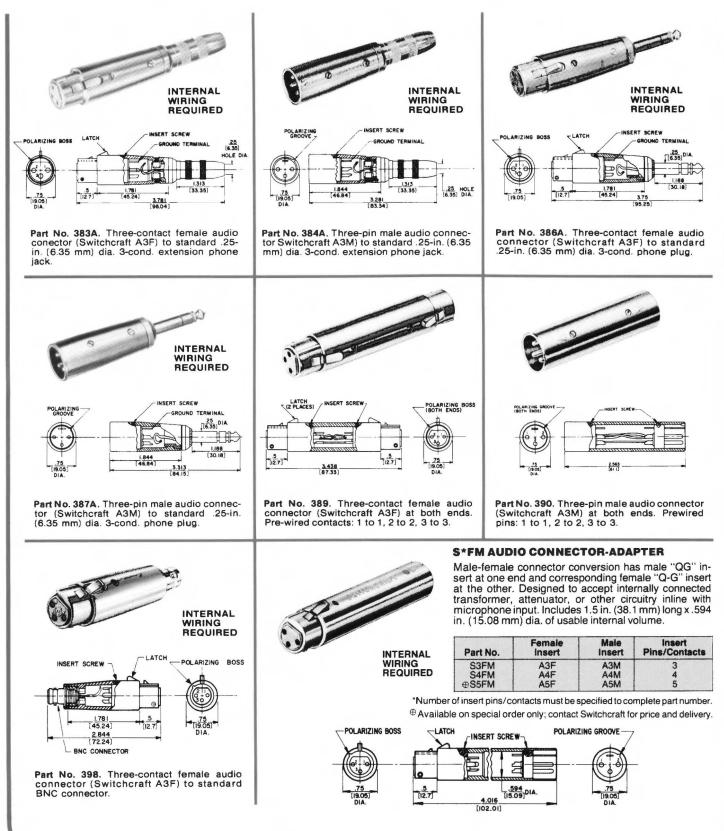
Phone Pin & Plug Housing: Brass, nickel plated. Phono Plug Insulation: Phenolic. Phono Jack Housing: Steel, cadmium plated & chromate dipped. Phono Jack Pin Receptacle: Brass, silver plated, chromate dipped

Phono Jack Insulation: Nylatron.

"QG" Specifications: See page 7.



"Q-G" CONNECTOR-ADAPTERS

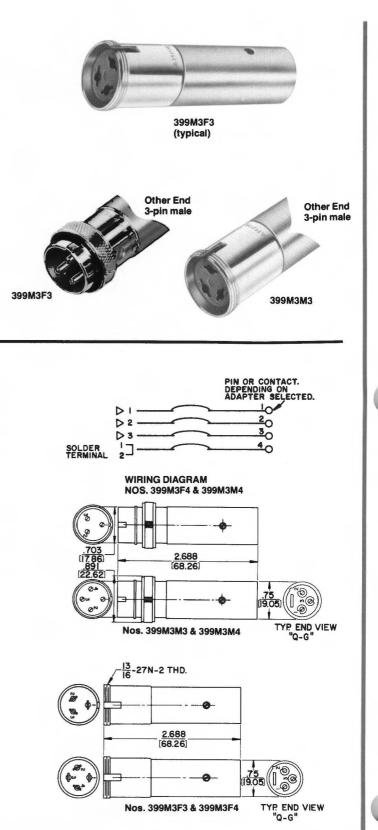


SWITCHCRAFT[®]

SERIES 399M AUDIO ADAPTERS

Adapters connect microphones and other audio equipment with threaded-coupling microphone connectors to equipment with Switchcraft 3-pin/contact male or female "Q-G" and QGP audio connectors and other 3-pin/contact male or female connectors with similar insert configurations. Adapters have a Switchcraft A(*)M insert at one end, and one of four Amphenol inserts (that mate with Amphenol Series 91-MCXX, 91-PCXX, and similar 3- or 4-pin/ contact male or female threadedcoupling microphone connectors) at the other end.

Nos. 399M3F3 and 399M3M3 are factory wired: pins/contacts 1 to 1, 2 to 2, 3 to 3. Nos. 399M3F4 and 399M3M4 have 4 leads attached only to Amphenol end terminals, and are to be terminated to "Q-G" insert terminals, as desired. See WIRING DIAGRAM.



NOTE: Contact your Switchcraft Representative for pricing.

Part No.*	Switchcraft End	Threaded-Coupling End Figure Description						
399M3F3 399M3M3 399M3F4 399M3M4	3- pin male	1 2 3 4	3-contact female 3-pin male 4-contact female 4-pin male					

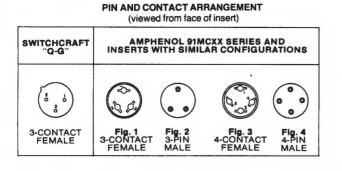
*Internal connection required on Nos. 399M3F4 & 399M3M4.

NOTE: Series 399F Audio Adapters are available on special order.

Contraction of the	MATING GUIDE							
Part No.	Switchcraft Output Mates With *	Amphenol Input Mates With **						
399M3F3 399M3F4 399M3M3 399M3M4	QG: A3F, B3F, C3F D3F, P3F, R3F, S3F, T3F, Y3F. QGP: QGP-3-22, QGP-3-26, QGP-3-62.	91-MC3M 91-MC4M 91-MC3F, 91-PC3F 91-MC4F, 91-PC4F						

*Also mates with other connectors with similar insert arrangements and identical number of circuits. Refer to other "Q-G" listings for extensive cross-reference and mating guide information on "Q-G," QGP, and other audio connectors.

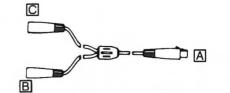
**Also mates with other audio connectors with similar insert arrangements and identical number of circuits.



SERIES 391Q AUDIO "Y" ADAPTERS

Series 391Q Y-Adapters can combine or split typical audio signals using a combination of Switchcraft "QG" A3F and A3M cord plugs. Outputs of two microphones can conveniently be connected in parallel and connected to a single input using a No. 391Q23 Y-Adapter. Cabling is 2-cond. shielded, 2 foot long grey jacket with molded Y-junction at center point. Mates with Switchcraft "QG" and QGP connectors.



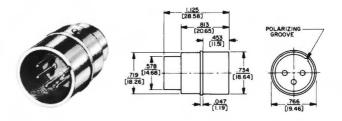


	"QG'	' Cord Plug P	art Nos.		
Part No.	Plug A	Plug B	Plug C		
391Q13	A3F	A3M	A3M		
391Q23	A3F	A3M	A3F		
391Q33	A3F	A3F	A3F		
391Q43	A3M	A3F	A3F		
391Q53	A3M	A3F	A3M		
391Q63	A3M	A3M	A3M		

"Q-G" CONNECTOR ADAPTER RECEPTACLES

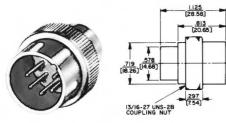
Adapter receptacles mount directly to microphones or similar equipment to provide highly reliable 3-, 4- and 5-pin Switchcraft "Q-G" connections. Adapter shell and coupling nut are brass, satin nickel finish. Other materials are same as on page 7.

	Part N	umbers	
Series L(*)M	Series L(*)MN	Series M(*)M	Insert Pins
⊕L3M	L3MN	МЗМ	3
⊕L4M	⊕L4MN	⊕M4M	4
⊕L5M	⊕L5MN	⊕M5M	5



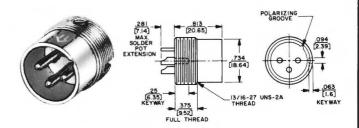
SERIES L(*)M

Male with plain cylindrical shell for mounting on microphones or similar equipment.



SERIES L(*)MN

Male with plain cylindrical shell with knurled, internally threaded collar engages external 13/16-27 threads on microphone body.



SERIES M(*)M

Male with shell having 13/16-27 external threads to engage equipment with internally threaded body. Terminals extend out rear (threaded end) to permit wiring without disassembly.

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

ARIZING

.906

.734 N8 64



IMPEDANCE MATCHING TRANSFORMERS

No. 9244



2-Cond. Phone Extension Jack



2-Cond. Phono Plug



2-Cond. Phono Extension Jack



impedance, such high impedance microphone

2-Cond. Miniature Phone Plug.

2-Cond. Microphone Connector

high to low Series 9000 Line Matching Transformers provide low-loss interconnections between high and low impedance equipment electric plane to low impedance amplifier or mixer. from 20 Hz to 20 kHz, and are especially valuable for interconnecting audio equipment where impedance transformations are required. Units are bi-directional, i.e., matching of

elected units are supplied with 4 in. extension cables on high impedance erminations. This minimizes front or rear panel space and owers possibility of damage due to it sticking int out from equipment and being accidentally bumped.

SPECIFYING FEATURES

 Plug-in impedance changes • Fully whet 12 low interest 10 ance connectors • 7 high impedance

 low to high impedance, such as professional log ance microphone to high impedance or PA, or

No. 9115

SPECIFICATIONS

ELECTRICAL

be from:

Freg. Resp.: Flat-20 Hz to 20 kHz ± 2 dB Impedance: High-40 ohms (nom.)

Low-150 ohms (nom.)

Voltage Step Ratio: Low to High-+28d High to Low--28 dB (typ.)

MATERIALS

Shell: Die-cast zinc shell, nickel plated with black non-glare metallized foil label.

Extension Cable (where used): 1 cond. + shield, color: black. **Dimensions:**

Diameter-.75 in. (19.05 mm) nom.

Length-3 in. (76.2 mm) nom. (Part Nos. 92XX)

3.375 in. (85.73 mm) nom. (Part Nos. 91XX)

NOTE: Does not include 4 in. cable & high impedance connector.

HIGH IMPEDANCE TERMINATIONS

Units are available with any of the following seven terminations:

- 1. Standard 2-cond. internal phone plug.
- 2. Standard 2-cond. phone plug with right angle handle.
- 3. Standard 2-cond. phone extension jack.
- 4. Miniature 2-cond. phone plug with right angle handle.
- 5. 2-cond. phono plug with right angle handle.
- 6. 2-cond. phono extension jack.
- 7. Microphone connector.

All units are internally wired. Metal shell is grounded to pin 1.

OW IMPEDANCE TERMINATIONS

Low impedance terminations are Switchcraft "QG"* 3-contact female or 3-pin male types, for connections to low impedance amplifiers, mixers, microphones.

PART NUMBERS

Part No.	Low Impedance Termination	High Impedance Termination
9115		C PHONE PLUG. 2-cond 1x-in dia linger Right angle handle with 4-in extension (shielded) cable
129		F PHONO FLUG 2-cond . right angle handle. 4-in extension (shielded) cable
9144	- 3-contact temale Switchcraft	D PHONE PLUG integral 2-cond F4-at dia finger
9151	A3F	H MINIATURE PHONE PLUG 2-cond 14D-in dia finger Right angle handle with 4-in extension (shielded) cable
9180		E PHONE EXTENSION JACK accepts 2-cond plags with 1-rin dia fingers 4-in extension (shielded) cable
9182	A 3-contact female	6 PHOND EXTENSION JACK 2-cond , 4-in extension (shielded) cable
9187		I MICROPHONE CONNECTOR Single contact sumilar to Switchcraft 2501F & Amphenol 75-MCIF 4-in extension (shielded) cable
9215		C (Same as No. 9115)
9229	8 3-pin male Switchcraft	F (Same as No. 9129)
9244		D (Same as No 3144)
9251		N (Same as No. 9151)
9280	A3M	E (Same as No. 9180)
9282		6 (Same as No. 9182)
9287	A STATE AND	1 (Same as No 9187)

ORDERING

Order by Part number from table. For special order items, contact Switchcraft and provide full details.



*QUICK-GROUND

AUDIO CONNECTOR CROSS REFERENCE GUIDE[‡]

This Audio Connector Cross Reference Guide provides you with the correct Switchcraft Audio Connector part numbers for an equivalent to Cannon part numbers. These items are considered electrically equivalent and mechanically similar.

Manufacturer's design and specifications change from time to time, therefore, we suggest a careful check of respective specifications before a substitute is made. Because of this fact, we cannot accept responsibility if products are not always interchangeable.

	Cannor	to Switchcraft	
XLR(*)-11C XLR(*)-12C XLR(*)-13 XLR(*)-13N XLR(*)-13N XLR(*)-15 XLR(*)-31 XLR(*)-32 XLR(*)-36	A(*)F A(*)M C(*)F B(*)F B(*)F D(*)F D(*)M G(*)MS	XLR(*)36-2G XLR(*)-35 XLR(*)-35-2G XLR(*)-50 XLR(*)-50N XLR(*)-50T XLR(*)-11+12 -2-A114 XLR(*)-42	H(*)MS J(*)FS K(*)FS L(*)MN L(*)MN M(*)M

†Connectors interchangeable, but Switchcraft wall plates are smaller.

9

\$7 pin/contact "Q-G" connectors mate with Cannon 7-pin/contact connectors listed above.

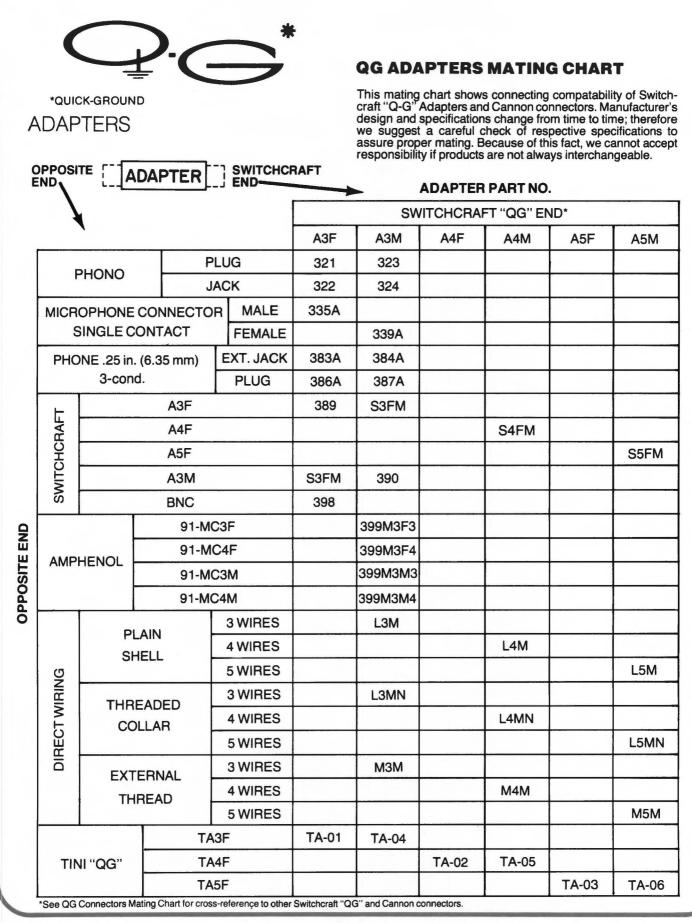
*Number of insert contacts or pins must be specified to complete part number.

QG CONNECTORS MATIN

This mating chart shows connecting co "Q-G" and similar Cannon connectors. A specifications change form time to time; careful check of respective specifications Because of this fact, we cannot accept re not always interchangeable.

TING CHART ng compatability of Switchcraft ors. Manufacturer's design and time; therefore, we suggest a ations to assure proper mating. ept responsibility if products are	SOCKET CONTACTS	XLR(*)-11C	XLR(*)-13	XLR(*)-13N	XLR(*)-15	XLR(*)-31	A(*)F, A(*)FB, A(*)FD, A(*)FL, A(*)FI	B(*)F, B(*)FB	C(*)F, C(*)FD	D(*)F, D(*)FB, D(*)FD	J(*)FS	K(*)FS	P(*)F	R(*)F, R(*)FL	T(*)F, T(*)FL, T(*)FM, T(*)FLM	Y(*)F, Y(*)FD, Y(*)FDPC, Y(*)FPC	QGP(*)22 [A(*)F]	QGP(*)26 [C(*)F]	QGP(*)62 [D(*)F]
TINCONTACTS	S		×	×		×			0		7			Œ	-	7			
XLR(*)-12C		•	٠	٠	•	•	٠	•	•	•	•	•	•	•	•	•	•	•	•
XLR(*)-14		•			•		٠		_				•	•	•		•		
XLR(*)-14N		•			٠		٠		_				٠	•	•		•		
XLR(*)-32		•			•		٠						•	•	•		•		
XLR(*)-42		•			٠		•						•	•	•		•		
A(*)M, A(*)MB, A(*)ML		•	•	•	•	•	•	٠	•	٠	•	•	•	•	•	•	•	•	•
B(*)M, B(*)MB		•			•		•						•	•	•		•		
C(*)M					٠		•						٠	•	•		•		
D(*)M, D(*)MB		•			•		•						•	•	•		•		
G(*)MS		•			•		٠						•	•	•		•		
H(*)MS		•			•		•						•	•	•		•		
N(*)MS		•	•	•	•	•	•						•	•	•		•		
P(*)M		•	•	•	٠	•	•						•	•	•		•		
R(*)M, R(*)ML		•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	•	•	•
W(*)M		•			•		•						•	•	•		•		
Y(*)M, Y(*)MPC		•			•		•						•	•	•		•		
QGP(*)23 [A(*)M]		•	•	٠	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•
QGP(*)27 [C(*)M]		•			•		•						•	•	•		•		
QGP(*)63 [D(*)M]		•			•		•					a 0. 9	•	•	٠		•		
								and and a first state of the											

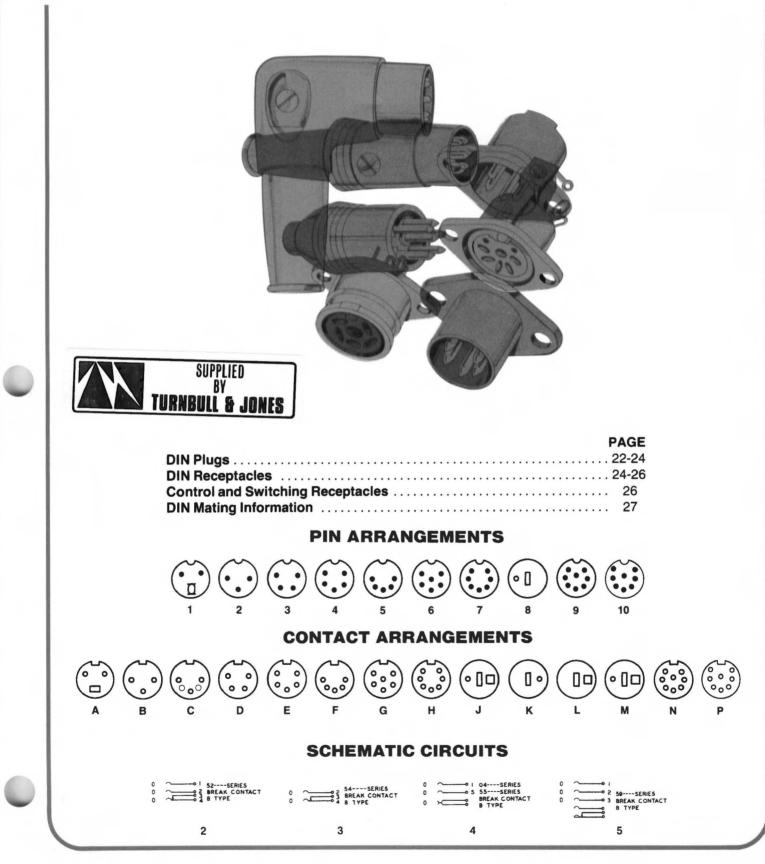




We reserve the right to change the prices, specifications and/or part numbers contained herein when circumstances make it necessary.

DIN CONNECTORS

SECTION 2



DIN CONNECTORS

DIN is the name given to this high-quality family of versatile miniature audio connectors. The family includes male and female plugs and receptacles with 2 to 8 circuits. Important receptacle variations include solder lug or PC terminations, as well as right angle PC mounting. Other features available are bright nickel-plated or colorful plastic snap-on shells. All are precision manufactured.

The DIN family of plugs and receptacles are unique among fine audio connectors for their internal switching. In all, there are six different receptacles that provide some form of switching.

DESIGN FEATURES



GROUND KEY-RIB

GROUNDING/SHIELDING

A "Ground Key-Rib or "Ground Contact" provided in each plug and receptacle (except those with plastic shells or housings) ground or shield to connector shell. Ground/shield circuit automatically engage upon connector mating. Contacts can be 'jumper-wired" between contact and "Ground Key-Rib" and/or "Ground Contact" terminal for grounding.

BUILT-IN SWITCHING:

Many connectors include built-in switches with up to double break circuitry.

CONTROL SWITCHING CONNECTORS:

Choose from a complete line of monaural and/or stereo speaker switching. Certain plugs can change from mono to stereo connections.

COUPLING METHOD



30° TWIST COUPLING

On locking types, lockring couples mating plugs and receptacles securely, even under shock and vibration conditions.

CONTACT PINS & SPRINGS

- All male plugs have tin plated pins.
- All control and switching receptacles have silver plated "forkshape" contact springs.
- · All metal flange receptacles have tin plated "fork-shape" contact springs and "Ground Contact" with solder terminal riveted to flange or center terminal of plug.
- · Metal shell plugs have tin plated "Ground Contact", as metal flange receptacles, above.

"Ground Contact" spring makes contact with "Ground Key-Rib" barrel of mating plug.

CABLE ENTRIES

Flexible black plastic bushings provide a strong strain relief. Standard cable entry is .219 in. (5.56 mm) dia. .094 in. (2.39 mm) dia. available on special order. Other bushing colors available on special order. Heavy duty cable clamp accommodates most standard size cables.

Designed for audio circuitry, they are also ideal for use in test equipment, instruments, computers, cameras, control devices and many other types of low level circuits.

DIN connectors have been field tested and proved over many years in a wide variety of critical applications; they are, in fact, among the best selling, high quality, low-cost connectors in many areas of the world.

8-POSITION RIGHT ANGLE PLUG



Unique 8-position barrel enables you to position cable entry at any of eight angles and is ideal for cramped area mounting.

SNAP-LOCK PLASTIC SHELLS



"Snap-Lock" holds plastic shell to metal plug barrel securely and provides fast, simple disassembly/reassembly. 3 to 7 contacts.

POLARIZATION

Polarization by contact arrangement and a "Ground Kev-Rib" virtually eliminates possibility of incorrect mating.

SPECIFICATIONS

ELECTRICAL

Contact Resistance: Cord Plugs and Receptacles -. 010 ohms, contact spring/pin; .030 ohms, ground clip/shell. Control and Switching Receptacles -. 015 ohms, contact spring/pin; .020 ohms, switch contacts.

Dielectric Withstanding Voltage: 500 V (rms). Leaking Resistance: 10⁵ megohms.

MECHANICAL

Life: 500 cycles.

Insertion/Withdrawal Forces

No. of Contacts	Insertion Force 1b./N	Withdrawal Force 1b./N
2	3.6/ (16)	.45 - 2.7/ (2 - 12)
23	5.4/ (24)	.67 - 4.1/(3-18)
4	7.2/ (32)	.90 - 5.4/ (4 - 24)
5	9.0/ (40)	1.24 - 6.8/ (5.5 - 30)
6	10.8/ (48)	1.46 - 8.1/ (6.5 - 36)
7	12.6/ (56)	1.68 - 9.5/ (7.5 - 42)
8	14.4/ (64)	1.90 - 10.8/ (8.5 - 48)

MATERIAL

Shell: Die-cast zinc alloy, bright nickel plated finish.

Receptacle Mounting Flange: Steel.

Receptacle Body: Molded phenolic.

Insert Material: Molded phenolic.

Socket Contacts: Silver plated.

Pin Contacts: Tin plated.

Switching Contacts: Silver plated.

Cable Relief Bushing: Soft plastic.

NOTE: All connectors meet DIN specifications. Din specification numbers (except for 4-pin, 5-pin @ 240°, and 8-pin @ 262°, which are not available at this time) will be furnished on request.

DIN PLUGS

STRAIGHT **CORD PLUG** with 30° Lock Ring

Type 05CL5M-typical

Miniature, male plug with "Ground Key-Rib". Unique 30° turn lockring securely fastens two halves of connector. Mates with lock flange female connectors and receptacles. Insert screw holds insert assembly in shell and also retains lockring on shell. Flexible black strain relief with $\frac{1}{32}$ diameter cable entry. Heavy duty clamp.

Part No.	Description	Pin Arrangement			
03CL2M	03CL2M 2 pins with insulated switch actuator.				
05CL3M 05CL5M	3 pins at 180° 5 pins at 180°	25			
09CL4M 12CL5M	4 pins at 210° 5 pins at 240°	34			

STRAIGHT **CORD PLUG**

with Shielded Barrel



Type 15GM7M-typical

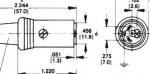
Miniature, male cord plug with shielded barrel and insulated snap-lock plastic shell. Two place metal barrel surrounds pin insert to form an electrical shield. The entire insert assembly is held together by snapping the insulated plastic shell over the assembly. The barrel's special metal tab locks the shell in also standard color of plastic shell is gray; other colors such as beige are available on special order. All-purpose cable clamp.

Part No.	Description	Pin Arrangement			
05GM3M	3 pins at 180° Gray shell and strain relief.	2			
05GM5M	5 pins at 180° Gray shell and strain relief	5			
09GM4M	9GM4M 4 pins at 210° Gray shell and strain relief.				
12GM5M	5 pins at 240° Gray shell and strain relief.	4			
12GM6M	6 pins at 240° Gray shell and strain relief.	6			
15GM7M	7 pins at 270° Gray shell and strain relief.	7			
15GM8M	8 pins at 270° Gray shell and strain relief	9			

STRAIGHT CORD PLUG	
	4.
	.216
Type 12BL6M-typical	[5.5] ⁽⁶⁾
Miniature, male plug with "Ground Key-Rib". Nickel pla	ted

diecast handle. Contact friction coupling. Flexible black strain relief. Heavy duty cable clamp.

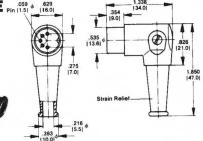
Part No.	Description	Pin Arrangement
€03BL2M	2 pins with insulated switch actuator	1
05BL3M 05BL5M	3 pins at 180° 5 pins at 180°	2 5
09BL4M 12BL5M	4 pins at 210° 5 pins at 240°	3 4
12BL6M	6 pins at 240°	6
15BL7M	7 pins at 270°	7
15BL8M	8 pins at 270°	9
20BL8M	8 pins at 262°	10
TRAIGH	IT CORD PLUG	
vith Flush Sock	et Insert	244
	1 1 1	
Construction of the second second		



Type 04AL2F-typical strain Belief ____________ Miniature female plug with "Ground Contact". Diecast metal shell, nickel plated. Two contact plug, Part No. 04AL2F includes a break circuit switch (1-B) which is opened by engaging the insulated switch actuator of the mating plug or receptacle. Flexible black strain relief.

Part No.	Description	Contact Arrangement
⊕04AL2F	2 contacts with closed-circuit switch. (Schematic #4)	A
⊕06AL3F 06AL5F	3 contacts at 180° 5 contacts at 180°	B F
10AL4F 13AL5F	4 contacts at 210° 5 contacts at 240°	DE
13AL6F	6 contacts at 240°	G
15AL7F	7 contacts at 270°	Н





Type 05DL5M-typical

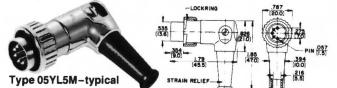
Miniature right angle chassis hugging, male plug with flexible black rubber strain relief. Unique 8-position barrel gives you a choice of any one of eight different cable entree angles. Ideal for use with miniaturized electronic equipment.

Part No.	Description	Pin Arrangement
03DL2M	2 pins with insulated switch actuator.	1
05DL3M 05DL5M	3 pins at 180° 5 pins at 180°	2 5
09DL4M	4 pins at 210°	3
12DL5M	5 pins at 240°	4
15DL8M	8 pins at 270°	9

DIN PLUGS & RECEPTACLES

RIGHT ANGLE CORD PLUG

with 8 position Barrel and 30° Lock Ring

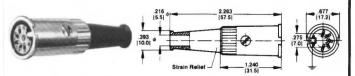


Miniature right angle chassis hugging, male plug with flexible strain relief. Unique 8-position barrel gives you a choice of any one of eight different cable entry angles. "Ground Key Rib" 30° turn lock ring securely fastens two halves of connector.

Part No.	Description	Pin Arrangement
05YL5M	5 pins at 180°	5
09YL4M	4 pins at 210°	3
12YL5M	5 pins at 240°	4

STRAIGHT CORD PLUG

with Lock Flange



Type 06EL5F-typical

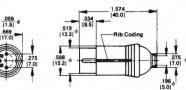
Miniature, female plug with "Ground Contact". Lock flange designed to accept 30° lockring. Insert screw firmly holds insert assembly in shell. Flexible black strain relief with ⁷/₃₂" diameter cable entry. Heavy duty cable clamp

Part No.	Description	Contact Arrangement
⊕06EL3F 06EL5F	3 contacts at 180° 5 contacts at 180°	B F
10EL4F 13EL5F	4 contacts at 210° 5 contacts at 240°	DE

STRAIGHT CORD PLUG

with Snap-Lock Plastic Shell





Type 05LK5M-typical

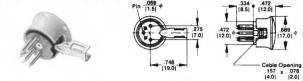
Miniature male plug with short snap-lock plastic shell and shielded barrel. Can be used in place of die cast metal plugs in less critical applications. The two piece metal barrel which surrounds the pin insert provides an electrical shield. The short plastic shell snaps over and locks on the barrel's metal locktab. Provides a rugged assembly. All purpose cable clamp. Standard color is gray, other colors available on special order only.

Part No.	Description	Pin Arrangement
05LK3M 05LK5M	3 pins at 180° 5 pins at 180°	2 5
09LK4M 12LK5M	4 pins at 210° 5 pins at 240°	3 4

Special order only; contact factory for price and delivery.

RIGHT ANGLE CORD PLUG

with Insulated Plastic Shell

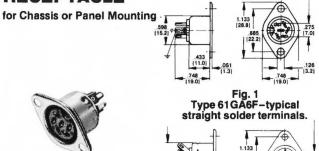


Type 05UK5M-typical

Subminiature right angle cord plug with integral cable clamp and insulated plastic shell. Shell easily snaps-on for quick disassembly and assembly of plug. Normally used for internal circuit connectors. Recommended for use in applications requiring infrequent disconnections. Standard color gray, other colors available on special order.

Part No.	Description	Pin Arrangement
05UK3M	3 pins at 180°	2
05UK5M	5 pins at 180°	5

RECEPTACLE



For shielded and extended barrel plugs



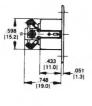
Drawn metal recessed shell with mounting flange and "Ground Contact". Available with straight or flared solder terminals. See drawings above. Part No. 55GA2F includes a break contact switch circuit (1-B), which is actuated by an insulated pin of the mating plug, such as Part No. 03BL2M. Part No. 58GB3F features two extra blanks in insert for proper mating (5 pins at 180°) plug where applications may require greater connector flexibility. Flared solder terminals available.

Part No.	Fig. No.	Descriptions	Contact Arrangement
55GA2F	1	2 contacts plus closed-circuit switch. (Schematic #4)	A
€ 57GA3F	1	3 contacts at 180°	В
57GB3F		3 contacts at 180°	В
57GB5F	11	5 contacts at 180°	F
⊕60GA4F	1	4 contacts at 210°	D
60GB4F	11	4 contacts at 210°	D
61GA5F	1	5 contacts at 240°	Ė
⊕ 61GA6F	1	6 contacts at 240°	G
61GB6F		6 contacts at 240°	G
62GB7F		7 contacts at 270°	H
62GB8F		8 contacts at 270°	N

DIN RECEPTACLES

RECEPTACLE with Closed





Type 59GB5F-typical

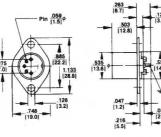
Unique 3 and 5 contact receptacles include a 1-B (closedcircuit) switch which is mounted to drawn metal shell. Switch is actuated by the shell of the mating plug. Receptacles also provide complete shielding through the "Ground Contact". Flared solder terminals.

Part No.	Description	Contact Arrangement
59GB3F	3 contacts at 180° plus closed-circuit switch. (Schematic #5)	В
59GB5F	5 contacts at 180° plus closed-circuit switch. (Schematic #5)	F

RECEPTACLE

with Extended Shell

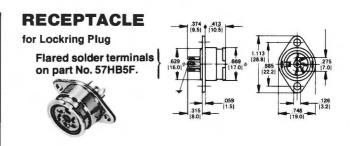




Type 61KD5M-typical

Male receptacle, 2 to 5 pins, with "Ground Key-Rib". Diecast extended shell and flange for chassis or panel mounting. Turret terminals.

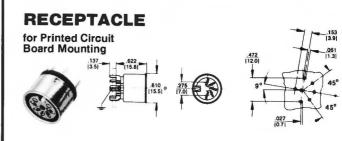
Part No.	Description	Pin Arrangement
⊕57KD3M ⊕57KD5M	3 pins at 180° 5 pins at 180°	2 5
⊕60KD4M ⊕61KD5M	4 pins at 210° 5 pins at 240°	3 4



Type 61HA5F-typical

Female receptacle with "Ground Contact". Chassis or panel mount. Diecast bayonet extension shell with mounting flange. Mates with all lockring plugs, such as Part No. 12CL5M. Part No. 55HA2F includes closed-circuit switch (1-B). All receptacles have straight solder terminals. Flared solder terminals available on part number 57HB5F.

Part No.	Description	Contact Arrangement
55HA2F	2 contacts with closed-circuit switch. (Schematic #4)	A
57HA3F #57HA5F	3 contacts at 180° 5 contacts at 180°	BF
57HB5F 60HA4F	5 contacts at 180° 4 contacts at 210°	F
61HA5F	5 contacts at 240°	E



Type 57NC5F-typical P.C. Board Cutout

Mounts direct to printed circuit boards. Special P.C. type terminals "snap-in" precut boards. See drawing. Tubular metal shell with "Ground Contact". Part No. 58NC3F mates with either 3 pin or 5 pin (at 180°) plugs because of its 2 extra blanks in the contact insert.

Part No.	Description	Contact Arrangement
57NC5F	5 contacts at 180°	F
⊕58NC3F	3 contacts at 180° 2 extra blanks	С
@'61NC5F	5 contacts at 240°	E



⊕Special order only; contact factory for price and delivery.

SWITCHCRAFT[®]

DIN RECEPTACLES & CONTROL and SWITCHING RECEPTACLES

RIGHT ANGLE RECEPTACLE

for printed Circuit Board Mounting



Type 57PC5F-typical

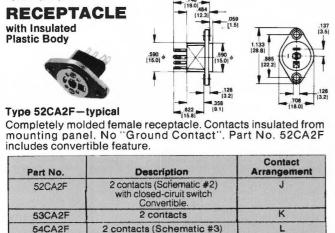
Mounts directly to P.C. boards. Plugs connect at right angle to mount-ing surface. Part No. 57PC3F mates with either 3 or 5-pin (at 180°) plugs because of two extra blanks in contact insert. "Ground Contact" provides complete shielding through receptacles.

Part No.	Description	Contact Arrangement
57PC3F	3 contacts at 180°	B
57PC5F	5 contacts at 180°	F
60PC4F	4 contacts at 210°	D
61PC5F	5 contacts at 240°	E
61PC6F	6 contacts at 240°	G
62PC7F	7 contacts at 270°	Н
62PC8F	8 contacts at 270°	N
70PC8F	8 contacts at 262°	P

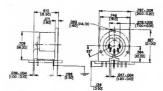
CONTROL and SWITCHING RECEPTACLES

Originally designed for connecting a remote speaker to existing equipment, or for stereo applications, these singular receptacles are also ideal for use in many types of electronic test and measurement equipment.

When inserting mating plug, Part No. 01QK2M contact is made to terminal Nos. 1 and 2. The receptacle's built-in closed-circuit switch is not actuated. Plug can then be turned 180°, without a polarity change, and re-inserted in receptacle to open switch and make contact to terminal No. 2.



with closed-circuit switch. Not convertible. Available on special order only; contact Switchcraft for price and delivery

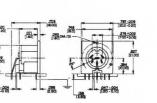


57PC3F, 57PC5F, 60PC4F-typical

L 197 (5.00) A (7) FOR STPCSF 094 DIA (2)

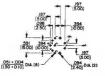
57PC3F, 57PC5F

197 394 11



61PC5F, 61PC6F-typical

60PC4F





Hole for pin 6 not used on 61PC5F

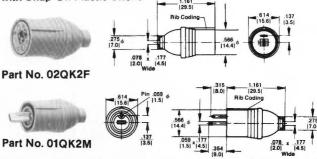


62PC7F, 62PC8F, 70PC8F-typical

62PC7F, 62PC8F, 70PC8F

RECEPTACLE **CONTROL and SWITCHING PLUGS**

with Snap-On Plastic Shells



Miniature plugs with short insulated plastic shell. No ground connection. Insert snaps in shell for quick assembly and disconnection. Insert snaps in shell for quick assembly and dis-assembly. Cable is fed through plastic shell and cable clamp ring. After soldering, crimp ring around cable and retract cable. Snap insert assembly in shell. Part No. 01QK2M male plug mates with all control and switching receptacles and No. 02QK2F, female cord plug. Use these straight cord plugs for interconnecting audio cable. Standard color is gray, other colors available on special order.

Part No.	Description	Pin/Contact Arrangement
01QK2M	Male plug, 2 contacts Female plug, 2 contacts.	8
02QK2F	remale plug, 2 contacts.	I K

SWITCHCRAFT DIN CONNECTOR MATING CHART

This Switchcraft DIN mating chart gives you the recommended plug and receptacle mating part numbers. To assure proper selection of connectors always refer to this chart.

SPECIFYING NOTE

Alternate mating selections are possible and are indicated by numbers (1 & 2) in the chart. All 1 & 2 items are fully intermateable, but functions may not be fully utilized, as follows:

KEY	DESCRIPTION
1	Locking function not completely used.
2	No "Through-Grounding" function.

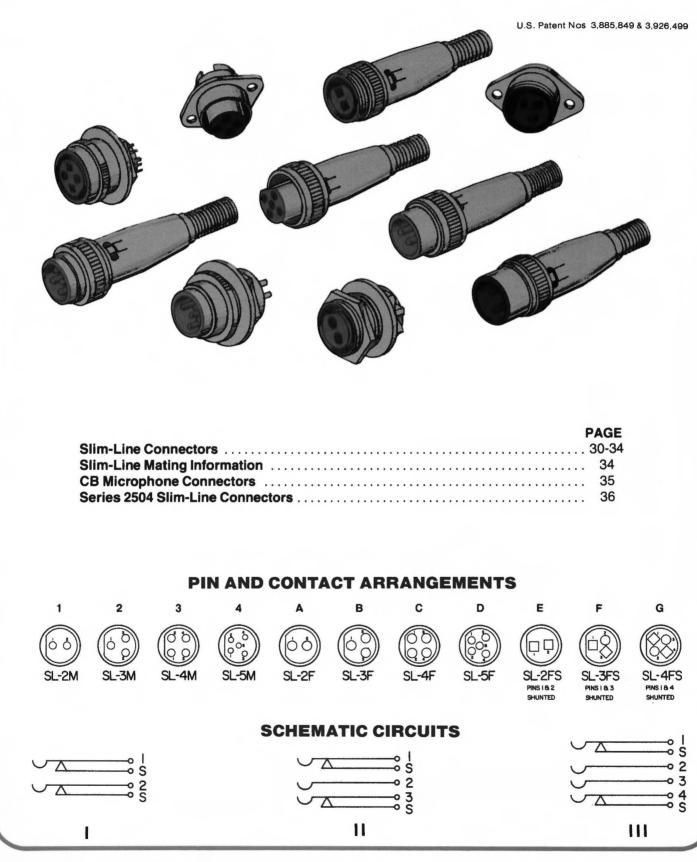
					F	FEN	MA	LE	PL	JG	S														,					F	EM	ALE	RE	C	EPT	AC	LE	5						
		02QK2F	04AL2F	06AL3F	06AL5F	06EL3F	06EL5F	10AL4F	10EL4F	13AL5F	13AL6F	15AI 7F	52CA2F	53CA2F	54CA2F	55GA2F	55HA2F	57GA3F	57GB3F	57GB5F	57HA3F	57HA5F	57HB5F	57NC5F	57PC3F	57PC5F	58NC3F	59GB5F	60GA4F	60GB4F	60HA4F	60PC4F	1CADIO	Londor a	61HA5F	61NC5F	61PC5F	61PC6F	62GB7F	62GB8F	62PC7F	62PC8F	70GB8F	70PC8F
	01QK2M	•																								-																		
	03BL2M		•													•												T	Τ					T		Τ								
	03CL2M																•								T									T		T	1							
	03DL2M		•											T		•																1		T	1		1						1	
	05BL3M		1	•		1								1		1		•	•		1				•		• •							T	1	1	1							
	05BL5M				•		1							T		1				•		1		•	1	•		•						1	1							1	1	
	05CL3M			1		•						-	1	1	1			1			•				1									1	\top	1	1						+	
	05CL5M				1		•						1	1	1					1		•	•	1		1								T	1	1		1					+	-
	05DL3M		1	•	1	1				1		+	1	1	1	\uparrow		•	•	-	1	1	+		•	1	• •		1		\square		+	1	+	\uparrow	\top				+	1	-	
	05DL5M	-	1	-	•		1					+	+	1	+	\mathbf{T}			-	•	+	1	-+	•	-	•	-		+			+	+	+	+-	-	+	1	\square		-		+	\neg
	05GM3M	+	1	•		1	-			-+	-	+	+	+	-	+-		•	•	-	1	+	+	-	•		•		1	1		-	+	+	+	+	+	1-		-	-+	+	+	-
	05GM5M	-	+	+	•	·	1		-+		+	+	+	+-	+	+			-	•	-+	1	+	•	-	•			+	-		+	+	t	+	+-	+	+		-	-+	+	+	-
	05LK3M	-	+	1	1	1	-			+	+	+-	+	+	+	+		•		-	1	-+	+	-	•	-		-	+		\vdash	+	+	+	+	+	+			-	-+	+	+	-
	05LK5M		+	-	•	-	1		-	+		+	+	+	+	+		-	-	•	-	1	+	•	-	•		•	+	-		+	+	+	+-	+	+-	+			-+	+	+	-
	05UK3M	-	-	•	-+	1,2			-	-+		+	+	+	+	+	\vdash	•	•	-			+		•	-	2 4	-	+	-				+	+		+	+			-	+	+	-
	05UK5M		-+-		•	1,6			+	+	+	+-	+	-	+	+		-	-	•	-	-+	-	•		•		2	+	1		+	+	+	+	+	+	+		-	-+	-	+	-
	05YL5M		+	+	-	-	•			+		+	+	+	+	+		-+		-	+	•	•	-	-	-		+-	+		1	-	-	╈	+-	+	+	+		-	+	+	-+	-
	09BL4M	-	-	+	+	-	-	•	1	-+			+	+	+	+	$\left \right $			-	+	-	-	-+	-+	-		+	•	•	1	•	+	+	+	+	+-	+	\vdash		-+	-+	-+	
MALE	09CL4M	+	+	+	+	-	-	1	•	+		+	+	+	+	+			-	+	-+	-+	+	-+	+	-+-		+	1	-	•	-	+	+	+	+	+	+		-	+	-+	+	
MA	09CL4M			+	+	-		•	1	+		+	+	+	+			-	-+		+	-	-+		-+-	+	+	+		•	1	•	+	+	+	+-	+	+		-	+	-+	-+	-
- LL	09DL4M 09GM4M		+	+	+	-		•	1	-+	-	+	+	+	-	+		-	-+		-	-	+	-	+	-	-		•	•	1	•	+	+	+	+	+	+	\square		-			-
	09LK4M	-	+	+	+	-		•	1	+	-	+	+	-	-	+			+	-		-+			-			+		•	1	•	+	+	+-	+	+	-		-	+	+	-	
	09LL4M	- +	+	+	+			1	•	-		+	+-		+	+		-	+		-	-+	+	-+		-	+	+	1	1	•	-		+	+	+	+	-			-	-		-
	12BL5M		+	+	+			-		•		+		+	+	+		-+	-	-	-	-+	-+	-+	-		+	+	1	-	-		-	+	+			-	\square		+	-+		-
	12BL6M		+	+	+				-		•	+	+	-	+	+		-+	-	-	-+-		+	-+	-+-	-		+	+				-		-	-	-	-			+	+	\rightarrow	
	12CL5M		+	+		-			-+	1		+-	+	+	+	+		+	-+		-+	-+		-	+			+-	+		\vdash	+		+	+	+	+	•	\square	_	-+	-+	\rightarrow	-
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	12DL5M	-+-	+	-	-		-			-	-	+	+	-	+			-+	-+	-	+	-	-	+		+	-	+	+	-		-		+1				-		-	-		\rightarrow	_
	12GM5M		+	-	+		_		+	•	• 1	-	+	-	+-	+-		-+		-	-	+	+	\rightarrow	-				+			-	-	+	1	•	•	T-	\vdash		\rightarrow	\rightarrow		
	12GM6M	-		+	+		-		+	-		-	+	+	+	-		-		-		-	+		+	-		-	-	-		-	•	-	-	-	-	•			-	-	-+	_
	12LK5M		+	+	+	-				•			+	-	+	-		-			-	-	+		+		+	+	+			_	_	+	1	•		-		-		-		_
	12YL5M		+	+	+	-			+	1	•	+	-	-				-		-+	-	-	+		+	-		+	-			-	4	+	•	•	1.				-	+	\rightarrow	_
	15BL7M		+	+	+				+	+		•	-	+	-	-					+		-	+	+	-+-	+		-				+	+	+	+-	+		•	-	•	-		_
	15BL8M	-		+	+				-	+		+	+	-	+	-		-		-		+	-	_				+	-			+	+	+	+	+	-			•		•	\rightarrow	_
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N N	61KD5M	-	-	+	\rightarrow	_		-		•	1	-	-	-	-				-			-	_	-	_	-	+	+	-				+	+	+	-	-	-		_		4	\rightarrow	_
MALE RECEPTACLES		_	+	+		-			_	-		-	-	-	-	-			-	-	-	_	_	-+	-	-	+	+	-			_	+	+	+	+	-				-	-		_
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SLIM-LINE CONNECTORS

SECTION 3



We reserve the right to change the prices, specifications and/or part numbers contained herein when circumstances make it necessary.

SLIM-LINE AUDIO CONNECTORS

Precision design and construction of Slim-Line makes wiring and assembly a simple, easy task. Positive, snap-together assembly. Male and female inserts (2 through 5 pin/contacts) are interchangeable between plugs and receptacles for maximum versatility.

CORD PLUGS

Miniature Cord Plugs feature nickel plated brass housings with matter finish on exterior parts. Plugs may be specified with inserts having 2-, 3-, 4- and 5-pins (male) or contacts (female), or 2-, 3-, or 4-contact receptacles having shunts (N.C.) on two contacts. Extra large cable clamp protects against pulling and twisting strains on terminations. Strain relief spring protects against excess cable wear at entry point at rear of housing. Cord plugs accept cables up to .281 in. (7.14 mm) diameter. Captive coupler ring feature (Series SL-40) provides secure mechanical connection and protection against shock and vibration between cord plugs and mating plug (Series SL-41) or receptacle.

DESIGN FEATURES

"Slim Line" Audio Connectors are a unique series of premium quality connectors featuring interchangeable inserts which allow any plug or receptacle to be male or female. This versatility will prove its value in a wide variety of applications. Some obvious uses are in microphones, public address, 2-way radio, CB, ham, marine radio, audio-visual systems, industrial control and instrumentation, broadcast, security and medical electronics.

INSERTS

Inserts are molded of high strength plastic, and are completely interchangeable between plug and receptacle housings at any time. Inserts are keyed to housings, and male and female inserts are polarized to prevent mismating.

Pin/Contact Configurations:

Pins	Contacts	Contacts (Shunts)
2	2	2 (N.C. shunt on each contact)
3	3	3 (N.C. shunts on contacts 1 and 3)
4	4	4 (N.C. shunts on contacts 1 and 4)
5	5	

Insert is installed from front, and the captive latch spring locks insert to housing. To remove insert from receptacle, depress latch spring and apply pressure to rear of insert (DO NOT APPLY PRESSURE TO TERMINALS). On cord plugs, depress latch spring and press in on strain relief to free the insert.

RECEPTACLES

Three types of receptacles can be specified:

- Flange mount (Series SL-10)
- Rear of panel mount (Series SL-17)
 Front of panel mount (Series SL-18)

Receptacles can be specified with same male and female insert combinations as cord plugs. For rear and front of panel mounting types, hex nuts, lock washers, and flat washers are supplied. For flange mount receptacles, mounting holes in flange accept #4 machine screw or .125 in. (3.18 mm) diameter rivet.

GROUNDING/SHIELDING

Housings shield internal connections and provide ground (common) connections without using a pin/contact. On cord plugs, ground lead (or shield) is connected to cable clamp. For receptacles Cable Clamp, **Part No. SL-04** is ordered separately and installed if desired ground/shield connection may then and installed. If desired, ground/shield connection may then be made to clamp. When mated, a continuous, shielded, low resistance path is made through the connector.

MOUNTING

Cord Plugs: Plugs accept cables up to .281 in. (7.14 mm) diameter.

Receptacles: Flange mount type mounts in panels or chassis up to .188 in. (4.78 mm) thick. .125 in. (3.18 mm) diameter holes accept #4 machine screws or .125 in. (3.18 mm) diameter rivets. Rear and front of panel types mount in "D-shaped" hole in panels or chassis up to .219 in. (5.56 mm) thick. Hex nut (Part No. SL-01), lock washer (Part No. SL-02), and flat washer (Part No. SL-03) are supplied for mounting.

CABLE CLAMP AND STRAIN RELIEF

Cord Plugs: Plugs are supplied with rugged cable clamps and strain relief springs. Cable clamp serves two valuable functions: 1, firmly holds cable to prevent pulling or twisting strains on soldered terminations, and 2, connecting point for ground (common) or shield when grounding/shielding through the connector is required.

Receptacles: Receptacles are not supplied standard with cable clamp for strain relief. If grounding/shielding feature is desired, separate Cable Clamp, **Part No. SL-04**, is installed on receptacle insert.

APPLICATIONS

Retrofit/Replacement; "Slim Line" Cord Plug (SL-40-5M) and Receptacle (SL-10-5F) are recommended as a possible choice to replace Switchcraft/DIN plug (12CL5M) and receptacle (55HA5F). Receptacle SL-10-5F fits the same mounting holes as the Switchcraft/DIN receptacle.

Four pin/contact "Slim-Line" plugs and receptacles are recom-mended as direct replacements for the original "Slim-Line" con-nectors, Series 2504, and for the molded version of the "Slim-Line" connector, Style ST-34 (See Catalog M-701c).

MATERIAL SPECIFICATIONS

Receptacle Housings-Die-cast zinc, nickel plated.

Cord Plug Housings-Brass, nickel plated.

Inserts-High strength black molded plastic. UL 94-VC.

- Female Contacts-Phosphor bronze, silver plated, solder lug type.
- Pins-Brass, silver plated, solder cup type.

Cable Clamp, Strain Relief, and Mounting Hardware-Steel, cadmium plated.

Latch-Steel, nickel plated.

MOUNTING HARDWARE

(supplied with Series SL-17 and SL-18 receptacles)

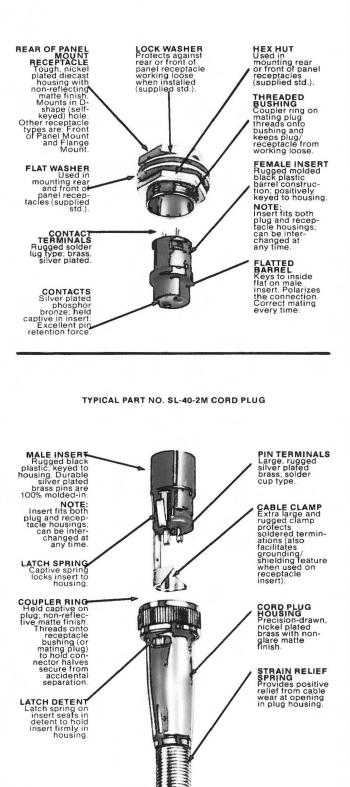
Part No.	Item
SL-01	Hex Nut
SL-02	Lockwasher
SL-03	Flat Washer

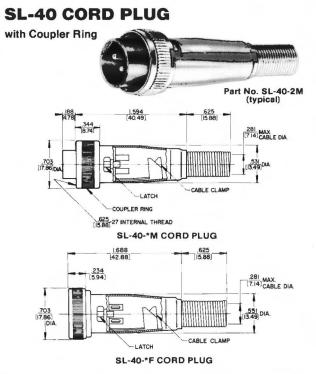
CB CONNECTORS

Refer to page 35 for complete specifications on CB connectors.

SLIM-LINE CONNECTORS

TYPICAL PART NO. SL-17-2F REAR MOUNT RECEPTACLE





Non-reflective metal shell; coupling ring; 2 thru 5 pins (male) or 2 thru 5 contacts (female). Also 2-, 3- and 4-contact inserts with 2 shunted (N.C.) contacts. Efficient cable clamp and strain relief.

"SL" MALE CORD PLUGS

Part No.	Pins	Pin Arrangements
SL-40-2M	2	1
SL-40-3M	3	2
SL-40-4M	4	3
SL-40-5M	5	4

"SL" FEMALE CORD PLUGS

Part No.	Contacts	Contact Arrangements
SL-40-2F	2	A
SL-40-3F	3	В
SL-40-4F	4	C
SL-40-5F	5	D
⊕ SL-40-2FS	2 (1 & 2 shunted) Schematic I	E
⊕ SL-40-3FS	3 (1 & 3 shunted) Schematic II	F
⊕ SL-40-4FS	4 (1 & 4 shunted) Schematic III	G

STRAIN RELIEF SPRING

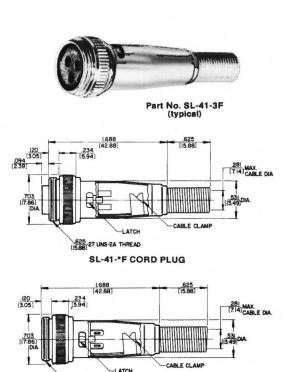
Strain Relief Spring Part No. SL-05



SLIM-LINE CONNECTORS

SL-41 CORD PLUG

without Coupler Ring



SL-41-*M CORD PLUG

Non-reflective metal shell; 2 thru 5 pins (male) or 2 thru 5 contacts (female). Also 2-, 3- and 4-contact inserts with 2 shunted (N.C.) contacts. Efficient cable clamp and strain relief.

"SL" MALE CORD PLUGS

625-27 UNS-2A THREAD

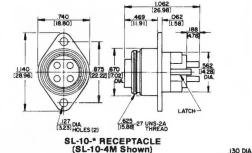
Part No.	Pins	Pin Arrangements
⊕ SL-41-2M	2	1.000
⊕ SL-41-3M	3	2
@ SL-41-4M	4	3
⊕ SL-41-5M	5	4

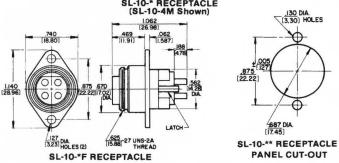
"SL" FEMALE CORD PLUGS

Part No.	Contacts	Contact Arrangements
SL-41-2F	2	A
SL-41-3F	3	В
SL-41-4F	4	С
SL-41-5F	5	D
⊕ SL-41-2FS	2 (1 & 2 shunted) Schematic I	E
⊕ SL-41-3FS	3 (1 & 3 shunted) Schematic II	F
⊕ SL-41-4FS	4 (1 & 4 shunted) Schematic III	G

SL-10 RECEPTACLES







Flange mounted; 2 thru 5 pins (male) or 2 thru 5 contacts (female). Also 2-, 3- and 4-contact inserts with 2 shunted (N.C.) contacts.

"SL" MALE RECEPTACLES

Part No.	Pins	Pin Arrangements
SL-10-2M	2	1
SL-10-3M	3	2
SL-10-4M	4	3
SL-10-5M	5	4

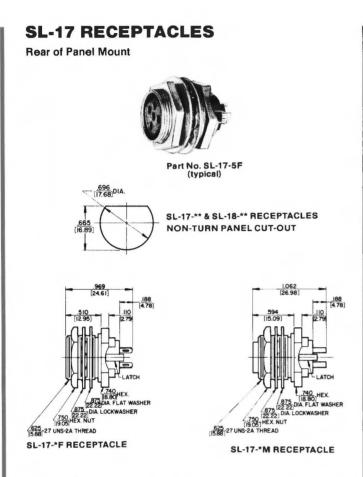
"SL" FEMALE RECEPTACLES

Part No.	Contacts	Contact Arrangements
SL-10-2F	2	A
SL-10-3F	3	В
SL-10-4F	4	С
SL-10-5F	5	D
⊕ SL-10-2FS	2 (1 & 2 shunted) Schematic I	E
⊕ SL-10-3FS	3 (1 & 3 shunted) Schematic II	F
⊕ SL-10-4FS	4 (1 & 4 shunted) Schematic III	G

Ospecial order only; contact factory for price and delivery.
NOTE: Contact your Switchcraft Representative for pricing.

We reserve the right to change the prices, specifications and/or part numbers contained herein when circumstances make it necessary.

SLIM-LINE CONNECTORS



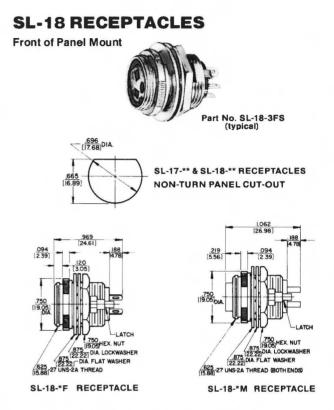
Rear of panel mount; 2 thru 5 pins (male) or 2 thru 5 contacts (female). Also 2-, 3- and 4-contact inserts with 2 shunted (N.C.) contacts. Mounting locknut (part no. SL-01), lock washer (part no. AL-02, and flat washer (part no. SL-03) supplied.

"SL" MALE RECEPTACLES

Part No.	Pins	Pin Arrangements
⊕ SL-17-2M	2	1
SL-17-3M	3	2
SL-17-4M	4	3
SL-17-5M	5	4

"SL" FEMALE RECEPTACLES

Part No.	Contacts	Contact Arrangements
SL-17-2F	2	A
SL-17-3F	3	В
SL-17-4F	4	С
SL-17-5F	5	D
⊕ SL-17-2FS	2 (1 & 2 shunted) Schematic I	E
⊕ SL-17-3FS	3 (1 & 3 shunted) Schematic II	F
⊕ SL-17-4FS	4 (1 & 4 shunted) Schematic III	G



Front of panel mount; 2 thru 5 pins (male) or 2 thru 5 contacts (female). Also 2-, 3- and 4-contact insert with 3 shunted (N.C.) contacts. Mounting locknut (part no. SL-01), lockwasher (part no. SL-02), and flat washer (part no. SL-03) supplied.

"SL" MALE RECEPTACLES

Part No.	Pins	Pin Arrangements
⊕ SL-18-2M	2	1
SL-18-3M	3	2
SL-18-4M	4	3
SL-18-5M	5	4

"SL" FEMALE RECEPTACLES

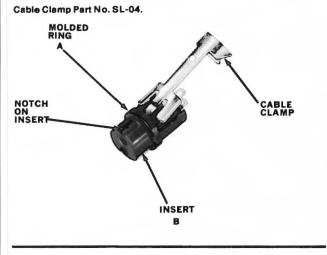
Part No.	Contacts	Contact Arrangements
SL-18-2F	2	A
SL-18-3F	3	В
SL-18-4F	4	C
SL-18-5F	5	D
⊕ SL-18-2FS	2 (1 & 2 shunted) Schematic I	E
⊕ SL-18-3FS	3 (1 & 3 shunted) Schematic II	F
B SL-18-4FS	4 (1 & 4 shunted) Schematic III	G

OSpecial order only; contact factory for price and delivery.

SLIM-LINE CONNECTORS

INSTALLING CABLE CLAMP ON INSERT

- To install cable clamp on any insert, proceed as follows:
- 1. Position insert approximately as shown in the diagram.
- Hold clamp at approx. 30° angle (as shown). Place tip of clamp center finger into slot under molded ring A. Note position of notch on insert in relation to slot.
- Press center finger forward into slot and reduce angle of clamp until clamp shoulders seat just ahead of molded barrier on rear of insert B.



NOTE: Slim-Line inserts are available for custom designs. Contact Switchcraft for price and delivery.

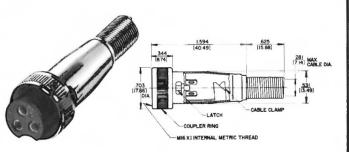
SLIM-LINE MATING CHART "SLIM- "SLIM-LINE" CORD PLUGS LINE" with Coupler Rings OAM SL-41-2M Male Cord Plugs SL-41-3 M Without SL-41-4M **Coupler Ring** SL-41-5M SL-41-2F SL-41-3F . **Female Cord Plugs** SL-41-4F . . Without SL-41-5F **Coupler Ring** . SL-41-2FS SL-41-3FS . SL-41-4FS . . . SL-10-2M . . **Male Receptacles** SL-10-3 M . . **Flange Mounted** SL-10-4M . . SL-10-5M SL-10-2F SL-10-3F . SL-10-4F . **Female Receptacles** SL-10-5F **Flange Mounted** SL-10-2FS SL-10-3FS . SL-10-4+S . • SL-17-2M . . Male Receptacles SL-17-3M . . Rear of SL-17-4 M . ٠ **Panel Mount** SL-17-5M . SL-17-2F . SL-17-3F . SL-17-4F . . . **Female Receptacles** SL-17-5F Rear of . **Panel Mount** SL-17-2FS . SL-17-3FS . SL-17-4FS . . . SL-18-2M . . Male Receptacles SL-18-3M . . Front of SL-18-4M . . Panel Mount SL-18-5M . SL-18-2F . SL-18-3F SL-18-4F . . **Female Receptacles** SL-18-5F . Front of SL-18-2FS . Panel Mount SL-18-3FS . SL-18-4FS . . *2504FP . . . Rear of *2504FR . . . **Panel Mount** NOTES: 1. Part No. 2504M is original "Slim-Line" Cord Plug. See Page 36. 2. Part No. ST-34 is molded cable version of No. 2504M. See Catalog M-701c. *"Slim-Line" Receptacle. See page 36.

ENGINEERING SPECIFICATIONS Λ C 5 0 2 h

"CB" MICROPHONE CONNECTORS

"CB" connectors are miniature 3- and 4-circuit, high performance audio connectors intended for CB radios and similar mobile radio/communications equipment. "CB" connectors mate directly with connectors on most popular CB units, and provide direct pin-compatible replacement/retrofit for many units currently in service. Small size accommodates limited space needs of mobile radios, and robust design withstands rough handling/abuse. Large cable clamp on plugs protects terminations, while strain relief spring avoids cable damage by prohibiting sharp bends and kinks. Pin/contact numbers are permanently molded into inserts.

CORD PLUGS

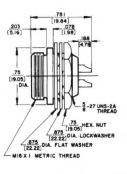


Part No. CB-3F 3-contact female cord plug. Knurled coupling ring has internal metric M16x1 thread (fits most CB microphone receptacles). Solder lug terminals accept wires up to #18 AWG. Accommodates cables up to .281-in. (7.14 mm) dia

Part No. CB-4F Same as CB-3F, except 4 contacts.

RECEPTACLES





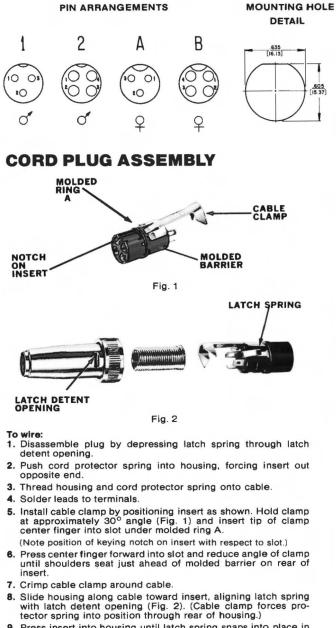
Part No. CB-3M 3-pin male receptacle. Housing keys insert of mating plug; bushing with external M16x1 metric thread mates with coupling ring on plug. Cup-type terminals accept wires up to #16 AWG. Mounts in .64-in. (16.26 mm) dia. hole from front of panels up to .125-in (3.18 mm) thick, using washer and locknut supplied. Can also be "D"-hole mounted for non-turn mounting (see drawing).

⊕Part No. CB-4M Same as CB-3M, except 4 pin.

IMPORTANT NOTE: "CB" connectors are available in blister packaged cards. Cross-reference replacement data is supplied with each connector.

MATERIAL SPECIFICATIONS

Receptacle Housing: Die-cast zinc, nickel plated. Plug Housing: Brass, nickel plated. Inserts: High strength molded plastic. Contacts: Phosphor bronze, silver plated. Pins: Brass, silver plated. Latch: Steel, nickel plated. Cable Clamp, Strain Relief Spring & Mounting Hardware: Steel, cadmium plated.



9. Press insert into housing until latch spring snaps into place in latch detent opening.

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

SWITCHCRAFT[®]

SERIES 2504 "Slim-Line" CONNECTORS

CORD PLUG

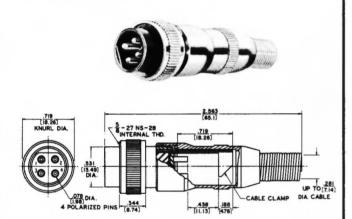
"Slim-Line" connectors enhance appearance of equipment in applications where space is limited. Polarized "D"-shaped inserts in plugs and receptacles assure proper mating.

NOTE: Switchcraft also offers No. 2504M plug molded directly to a choice of cables. Refer to Switchcraft Catalog No. M-701c.

NOTE: Refer to pages 30-34 for Slim-Line connectors (available in 2-thru 5-pin/contact configurations and shunted versions).

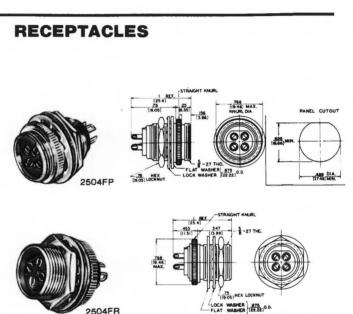
MATERIAL SPECIFICATIONS

Shell & Coupling Ring: H.H. brass, bright nickel plated. Barrel & Insert Assembly: High impact thermoplastic. Pin Contacts: Brass, silver plated. Socket Contacts: Phosphor bronze, silver plated. Cord Protector Spring, Cable Clamp & Mounting Hardware: Steel, cadmium plated.



Part No. 2504M Shielded, 4-pin male cord plug. Handle removes readily for quick, easy cable installation. Large solder cups facilitate wiring; built-in cable clamp provides superior strain relief. Cord protector spring eliminates cable bending and kinking at point of entry. Mates with 2504FP and 2404FR receptacles.

NOTE: Contact your Switchcraft Representative for pricing.



2504FR

Shielded receptacles mount in panels from .062 to .218-in. (1.58 to 5.55 mm) thick in .688-in. (17.46 mm) dia. hole, using flat washer, lock-washer, and .75-in. (19.05 mm) hex nut (supplied). Can also use .688 x 656-in. (17.46 x 16.67 mm) hole for non-turn "D"-hole mount.

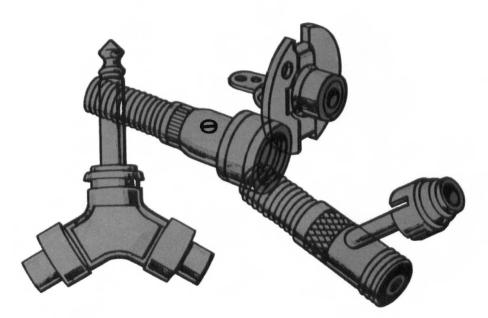
Part No. 2504FP 4-contact female receptacle. Mounts from front of panel or chassis with hex nut and washer (supplied).

Part No. 2504FR 4-contact female receptacle. Mounts from rear of panel or chassis with hex nut and washer (supplied).



GENERAL PURPOSE CONNECTORS

SECTION 4



Switchcraft offers a wide range of standard and miniature microphone connectors, phono jacks and plugs, RF-jacks, RF plugs and Y-connectors for a variety of general purpose connections.

	PAGE
Series 2500 Microphone Connectors	
Series 5500 "Mini-Con" Connectors	
Series 3500 Phono Jacks and Plugs	40
Phono Jacks, RF-Jacks, RF Plugs	41
Y-Connectors & Phono Jack-To-BNC Adapter	42

SERIES 2500-MICROPHONE CONNECTORS

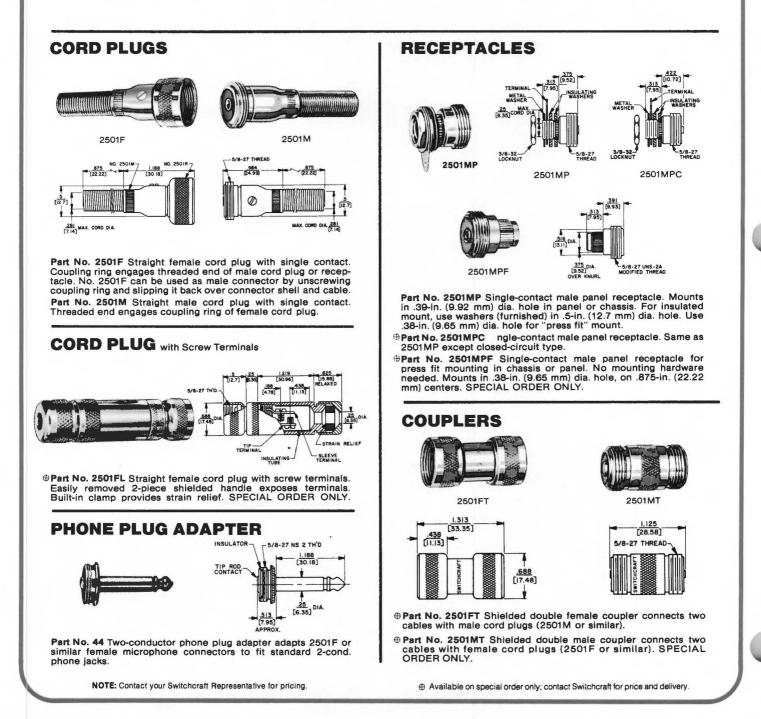
Switchcraft microphone connectors, intended for use with single-conductor shielded microphone cable, are widely used with microphones, amplifiers, transmitters, tape recorders, and headphones, and with public address, sound reinforcement, and industrial communication equipment. Shield braid can be bent back over protector spring and soldered to provide ground termination and strain relief. Spring is then clamped into connector shell, with set screw.

MATERIAL SPECIFICATIONS

Shell & Coupling Ring: Brass, machined, bright nickel plated.

Cord Protector Spring: Spring steel wire, cadmium plated. Insulation: XXXP paper base phenolic. Eyelet: Brass, hot tinned.

NOTE: Switchcraft also offers Series 2500 connectors molded directly to cables. See Catalog M-701c.

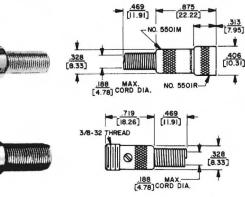


SERIES 5500—"Mini-Con" CONNECTORS

Approximately one-half the size of Switchcraft Series 2500 microphone connectors; average net weight is .5 oz. (14.9 g). Ideal for miniature lapel microphones, musical instruments, etc.—wherever small

cable is used. Accepts single-conductor shielded cable up to .187-in. (4.76 mm) dia. Cable braid can be soldered to cable protector spring, which is clamped into shell by hollow point screw.

CORD PLUGS



Part No. 5501F Single-contact female cord plug. Coupling ring is removable for quick change from female to male connector.

Part No. 5501M Single-contact male cord plug.

RECEPTACLES 5501MP 5501MF METAL WASHER 10.30 266 METAL WASHER .109 [2.77] 3/8-32 THREAD 25 DIA. 35] FRMINAL 16 #10-32 LOCKNU ۲ WASHERS 3/8-

Part No. 5501MF Single-contact male panel receptacle. Mounts with locknut from rear of panel in .375-in. (9.52 mm) dia. hole. INSULATED MTG.: Use Nos. S-1028 and S-1029 insulating washers (not furnished) with .875-in. (22.22 mm) dia. hole.

Part No. 5501MP Single-contact male panel receptacle. Mounts with locknut from front of panel in .187-in. (4.76 mm) dia. hole. INSULATED MTG.: Use insulating washers (furnished) with .25-in. (6.35 mm) dia. mounting hole.

[⊕] Part No. 5501MPC Same as 5501MP, except shorting type. SPECIAL ORDER ONLY.

MATERIAL SPECIFICATIONS

 Shell & Coupling Ring: Machined brass, bright nickel plated.

 Cord Protector Spring: Spring steel wire, cadmium plated.

 Insulation: XXXP paper base phenolic.

 Eyelet: Brass, hot tinned.

 Washer: Steel cadmium plated.

 Locknut: Brass, nickel plated

 Insulating Washers: Flat—bakelite; shoulder—swaged fiber.

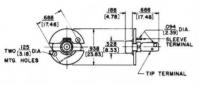
NOTE: Contact your Switchcraft Representative for pricing

SERIES 3500-PHONO JACKS AND PLUGS

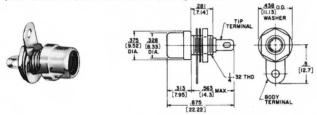
Switchcraft phono jacks and plugs are recommended for semi-permanent connections in audio and electronic applications.

PHONO JACKS

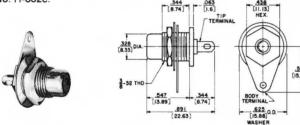




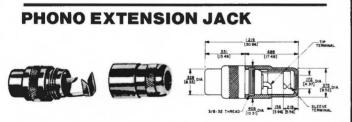
Part No. 3501F 2-cond. phono jack with phenolic mounting flange. Mounts from rear of panel through .406-in. (10.32 mm) dia. hole, plus 2, .125-in. (3.18 mm) dia. mounting holes.



Part No. 3501FP 2-cond. phono jack for front-of-panel mount, using hex nut (supplied). Only .438-in. (11.12 mm) O.D., can be mounted on .5-in. (12.7 mm) centers. Has 1/8-32 bushing, mounts in .281-in. (7.14 mm) dia. hole in panels up to .25-in (6.35 mm) thick. INSULATED MOUNT: Use Nos. S-2207 and S-1564 insu-lating washers (not supplied) with .313-in. (7.92 mm) dia. mounting hole. Order washers separately from Switchcraft Catalog No. H-602c.



Part No. 3501FR 2-cond. phono jack for rear-of-panel mount, using 3/8-32 locknut (supplied). Locknut can be tightened con-veniently by holding .438-in. (11.12 mm) hex body with Spintite wrench from rear. Can be mounted on .688 in. (17.48 mm) centers through .391 in. (9.93 mm) dia. hole in panels up to .203-in. (5.16 mm) thick. INSULATED MOUNT: Use Nos. S-1028 flat washer and S-1029 extruded fiber washer (not furnished), with .438-in. (11.13 mm) dia. mounting hole. (Order washers separately from Switchcraft Catalog No. H-602c.)



Part No. 3503 2-cond. shielded extension phono jack. Use on end of cable. Large, heavy duty cable clamp, removable handle and durable bright nickel plate on body and handle.

® Registered tradename of Switchcraft, Inc.

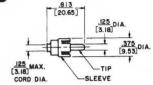
NOTE: Contact your Switchcraft Representative for pricing.

NOTE: Where frequent connect/disconnect is anticipated, Switchcraft Littel-Jax® phone jacks and Littel-Plug® phone plugs are suggested.

NOTE: Series 3500 Phono Plugs molded directly to cables are available. Refer to Switchcraft Catalog No. M-701c

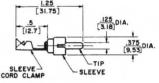
PHONO PLUGS





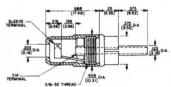
Part No. 3501M 2-cond. phono plug accepts cable up to .125-in. (3.18 mm) dia.





Part No. 3501MC 2-cond. phono plug with cable clamp.



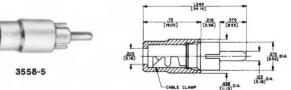


Part No. 3502 Handy Grip Phono Plug, 2-cond. shielded. Heavy duty cable clamp and removable handle; accepts cables up to .203-in (5.16 mm) dia. Terminals may be crimped with pliers (tem-porary connections) or soldered (permanent connections). Plus accommodates multiple jacks spaced on .438-in. (11.13 mm) centers. Bright nickel plated brass body and handle.





3558-2



Part No. 3558-1 2-cond. phono plug with red plastic snap-on handle for color coding. Has cable clamp and accepts cables up to .203-in (5.16 mm) dia

Part No. 3558-2 Same as 3558-1 above, except black handle. Part No. 3558-5 Same as 3558-1 above, except white handle.

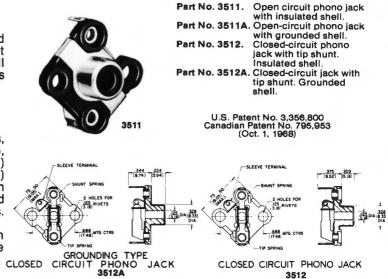
3512

PHONO JACKS, RF-JACKS, RF PLUGS

4-LEAF CLOVER JAX - PHONO JACKS

4-Leaf Clover Jax are available in four models and feature dual contact surfaces for minimum contact resistance and high reliability. Ideal for use on all types of phonographs, tape recorders, radios, TV's broadcast and sound recording equipment, etc.

4-Leaf Clover Jax mate with Switchcraft phono plugs, Nos. 3501M, 3501MC, 3502, and 3558-1, -2 and -5, and with any phono plug that has a .125-in (3.18 mm) dia. pin. Can be mounted on .75-in. (19.05 mm) centers through a .406-in. (10.31 mm) dia. hole in panels up to .203-in. (5.16 mm) thick, and fastened with .125-in. (3.18 mm) dia. rivets or No. 5 screws. Requires only .375-in. (9.52 mm) depth behind panel. Body keys all springs, mechanically locking them in place to prevent shifting of parts and possible shorting.

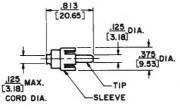


"RF-PLUG" RF PHONO PLUGS

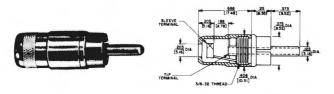
Coaxial phono connectors employ low-loss nylon insulation and are ideally suited to rf applications where semi-permanent connection of moderate power handling capability is required. Perfect for applications where space is at a premium and cost is important. "RF-Jax" jacks and "RF-Plug" plugs have been used successfully to 1 kW at 30 MHz.

"RF-PLUG" PLUGS





3504M 2-cond. phono plug. Mates with No. 2505F jack.



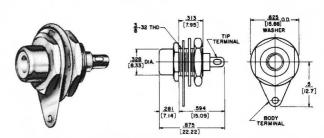
3507 2-cond. phono plug with bright nickel-plated brass body and screw-on handle. Mates with No. 3505F jack.

SPECIFYING NOTE: OEM ACCOUNTSI-Switchcraft can mold the No. 3507 "RF-Plug" to RG-type cable. Your inquiries are invited.

Available on special order only: contact Switchcraft for price and delivery

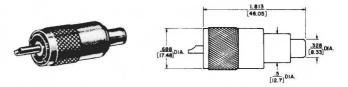
NOTE: Contact your Switchcraft Representative for pricing

"RF-JAX" RF PHONO JACKS



3505F 2-cond. phono jack for front-of-panel mounting. Fastens with 3/8-32 hex nut (supplied) to minimize tampering. Body has 438-in. (11.11 mm) hex shape on front, can be held conveniently with Spintite wrench while tightening locknut. Can be mounted on .688 in. (17.48 mm) centers, through a .391 in (9.93 mm) dia. hole in panels up to .172-in. (4.37 mm) thick. Mates with Nos. 3504M and 3507 "RF-Plug" plugs.

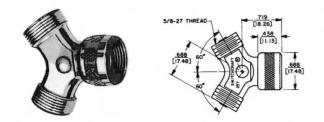
RF-ADAPTER CONNECTOR



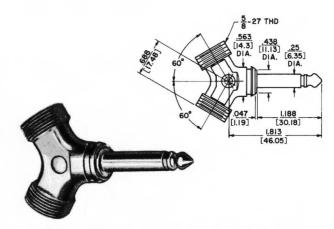
⊕3506 Connector has coaxial connector (similar to Amphenol No. 83-1SP) on one end and a Switchcraft No. 3505F "RF-Jax" jack on the other. No. 3506 adapter is designed to interconnect many amateur and commercial transmitters using standard rf connec-tors and antenna accessories using plugs that mate with No. 3505F "RF-Jax" jack. SPECIAL ORDER ONLY.

Y-CONNECTORS

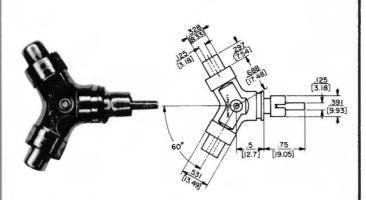
Fully shielded connectors make it possible to connect two cables (with standard microphone or phono connectors) in parallel to a single connector. Two inputs can be combined into a single output, or a single input can be split into two outputs.



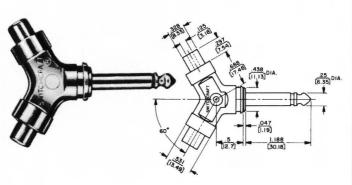
Part No. 25Y Connects two cables with standard female microphone connectors (such as Switchcraft No. 2501F) in parallel to a single female microphone cord plug or receptacle output.



⊕ Part No. 330M Connects two cables with standard female microphone connectors (such as Switchcraft No. 2501M) in parallel to standard .25-in. (6.35 mm) phone plug output.



Part No. 330F Connects two cables with standard phono plugs (such as Switchcraft No. 3501M) in parallel to standard phono plug output.



Part No. 330PJ Connects two cables with standard phono plugs (such as Switchcraft No. 3501) in parallel to standard phone plug output.

PHONO JACK-TO-BNC CONNECTOR ADAPTER

Connector-Adapter has phono jack input and BNC coaxial connector output for connections to test equipment and instrumentation, such as oscilloscopes, meters, bridges, etc., and hi-fi audio applications and circuit tracing. Recommended for use up to 30 MHz. Housing is nickel plated brass, and jack contact is cadmium plated brass. BNC housing and contact pin are silver plated brass.

Special order only; contact Switchcraft for price and delivery.

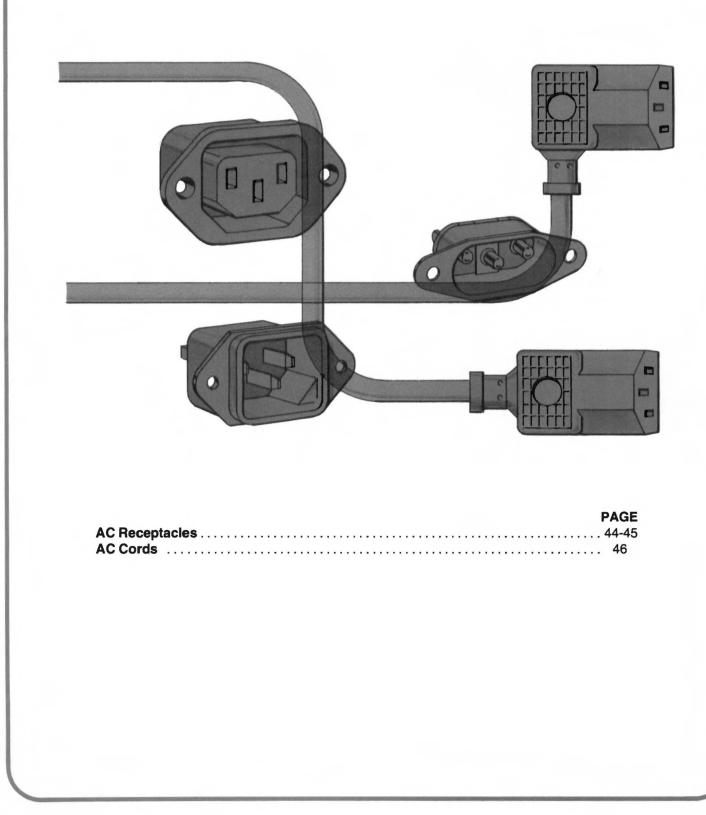


Part No. 3513

NOTE: Contact your Switchcraft Representative for pricing.

AC CORDS & RECEPTACLES

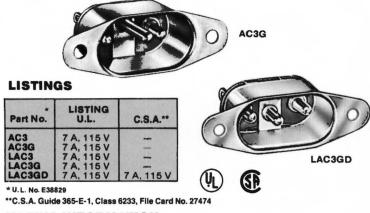
SECTION 5



AC RECEPTACLES

TYPES AC AND LAC

AC and LAC receptacles are intended for safe use in all critical electrical/electronic applications. "Chassis-hugging" recessed mounting is suited to all types of equipment. Receptacles have self-aligning feature that permits movement of pins Nos. 1 and 3 within the shell to compensate for any slight off-centering of mating plug contacts. Center pin, No. 2, is stationary and acts as a guide.



MATING INFORMATION

Part No.	Belden	Miller		
ACS	PH-243			
AC3G	PH-243			
LAC3	PH-04, PH-95, PH-101,			
LAC3G	PH-104, PH-105, PH-163,	350-1, 350-2		
LAC3GD	PH-164 & 17258 CordSet.			

Part No. AC3 3-pin, ungrounded.

Part No. AC3G 3-pin; center pin grounded to case.

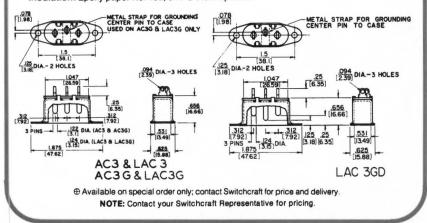
Part No. LAC3 3-pin, ungrounded.

Part No. LAC3G 3-pin; center pin grounded to case.

Part No. LAC3GD 3-pin; center pin grounded to case. Center pin is .125-in. (3.18 mm) longer. Ground circuit is established before power circuits "make", and is maintained until after power circuits "break".

MATERIAL SPECIFICATIONS

Shell: Steel, cadmium plated, chromate dipped. Pins and Terminals: Brass, silver plated and chromate dipped. Insulation: Epoxy paper No. 492, 94V O thermoplastic.



SERIES EAC



EAC-301

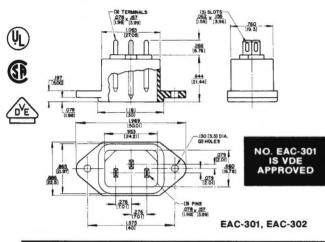


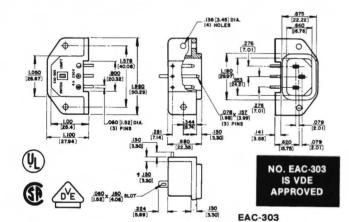
EAC-303

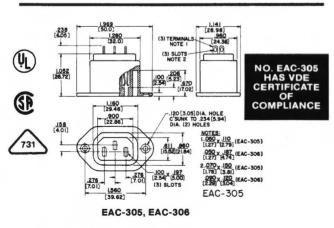


EAC-305

Three-pin/contact grounding type primary power receptacles are for use in European and domestic instruments, test equipment and appliances. Male receptacles have center (ground) pin .125-in. (3.18 mm) longer. Ground circuit is established before power circuits "make", and is maintained until after power circuits "break".







NOTE: Contact your Switchcraft Representative for pricing.

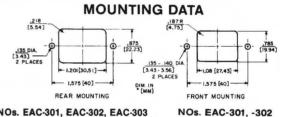
LISTINGS

	LISTING									
Part No.	U.L.	C.S.A.	VDE							
EAC-301	6 A, 250 V AC	6 A. 250 V	6 A, 250 V AC							
EAC-302	15 A, 250 V AC	15 A. 250 V								
EAC-303	6 A, 250 V AC	6 A. 250 V	6A. 250 VAC							
EAC-305	6 A. 250 V AC	6 A, 250 V	*							
EAC-306	15A, 250 V AC	15 A, 250 V	-							

EAC-301, EAC-302, EAC-303-UL No. E38829 *Certificate of Compliance EAC-305, EAC-306-UL No. E65081 C.S.A. Guide 365-E-1, Class 6233, File Card No. 27474

MATING/MOUNTING INFORMATION

Part No.	Switchcraft	Belden	Mounting (Fig.)		
EAC-301 EAC-303	P-2392, P-2720, P-2721, P-2722, P-2725, P-2727, P-2728	SPH-386	1,2		
EAC-302 EAC-305 EAC-306	P-2723, P-2724 P-2721, P-2725	SPH-386 SPH-388	1,2 3 3		



NOs. EAC-301, EAC-302, EAC-303

1.275 32.38

25 R

36 DIA MTG (3.45) HOLES (2) .070 ±.003 275 975 (24.76)

1.580

275 790 . -1.560 [39.62] DIM. I e 283 FRONT MOUNTING LAYOUT NOs. EAC-305, -306 No. EAC-303

Part No. EAC-301 3-pin male receptacle. Solder lug terminals. Mounts from front or rear of panel with 2, #5 screws or .125-in. (3.18 mm) dia. rivets (not supplied).

Part No. EAC-302 3-pin male receptacle. Similar to EAC-301 except higher rating.

Part No. EAC-303 3-pin male receptacle. Right-angle housing for PC board mount. PC pin terminals project .125-in (3.18 mm) to extend through PC board. Rear of panel mount. Two, .136-in. (3.45 mm) dia. holes permit fastening to PC board; two additional .136-in. dia. holes for fastening to panel or chassis, if required. Ground pin connects to ground solder lug on rear of receptacle.

Part No. EAC-305 3-contact female receptacle. Front mount with 2, #4 screws or .094 in. (2.38 mm) dia. rivets (not supplied).

Part No. EAC-306 3-contact female receptacle. Similar to EAC-305, except higher rating

SPECIFICATIONS

ELECTRICAL

ELECTRICAL Current Rating: EAC-301, EAC-303, EAC-305-6 Å, 250 V AC. EAC-302, EAC-306-15 Å, 250 V AC. Insulation Resistance: 2 million + megohms min. @ 500 V DC. Dielectric Strength: 1500 V (rms). Arcing Test: Meets U.L. 498 Std. (except EAC-303).

MECHANICAL

Solderability Standard: Meets MIL-STD-202, method 208, EIA 178/ANSI C-83.93-1973; superceded by EIA RS-186-9E.

ENVIRONMENTAL Thermal Range: ~55°C to +85°C. Salt Spray: Meets MIL-STD-202, method 101, EIA-186, method 5.

MATERIAL

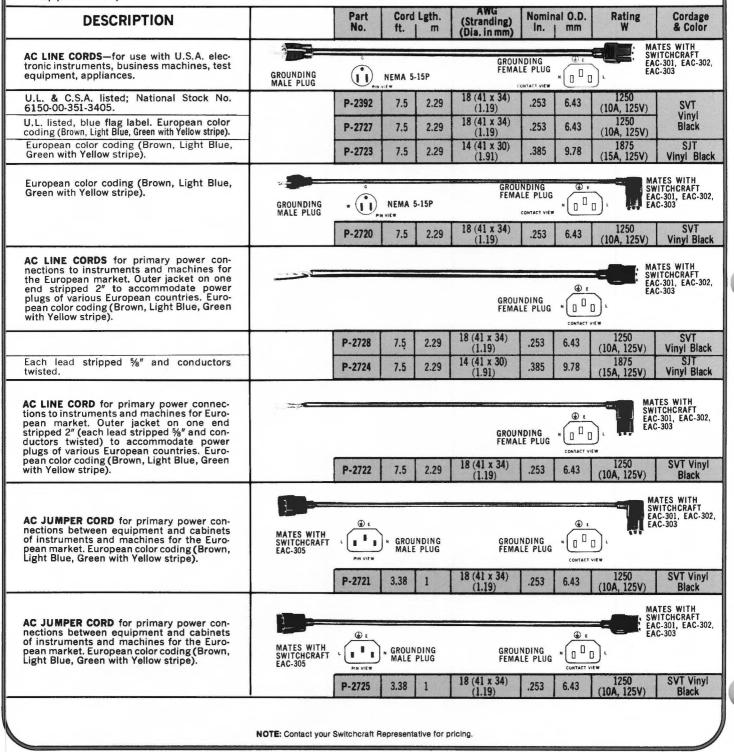
Shell: Black, glass-filled thermoplastic, U.L. 94 flammability rating of 94V-O. Pins and Terminals: Brass, silver plated (EAC-301, EAC-302, EAC-303). Contacts and Terminals: Bright dipped brass (EAC-305, EAC-306).

SWITCHCRAFT[®]

AC LINE CORDS and AC JUMPER CORDS

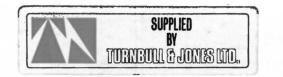
Designed for primary power and jumper connections in U.S., Canadian and European Electrical/Electronic Equipment (test equipment, business machines, electronic instruments, computers and appliances).

NOTE: All Cords are U.L. listing No. E81919 except P-2722, P-2724 & P-2728 are U.L. No. E50647. All Cords are C.S.A. listed No. LR29309 except P-2722 is C.S.A. No. LR49109 and P-2724, P-2728 are C.S.A. No. LL37250.



CROSS REFERENCE CHART Part Number vs. Page Number

	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No. F	Page No.	Part No.	Page No.	Part No.	Page No.
and the second se	A3F A3FB A3FD A3FL A3FLD	8 8 8 8	D4F D4M D5F D5M D6F	11 11 11 11 11	QG5M QG6F QG6FD QG6M QG7F	13 13	SL-18-2F SL-18-2F SL-18-2M SL-18-3F SL-18-3F	S 33 M 33 33	TA3ML TA4F TA4FL TA4M TA4ML	5 5 5 5 5 5	05GM5M 05LK3M 05LK5M 05UK3M 05UK3M		61GA6F	26 24 24	3504M 3505F 3506 3507 3511	41 41 41 41 41
And the second se	A3M A3MB A3ML A4F A4FD	8 8 8 8	D6M D7F D7M EAC-30 ² EAC-302		QG7FD QG7M QGP-3- QGP-3- QGP-3-	13 22 8 23 8	SL-18-3M SL-18-4F SL-18-4F SL-18-4M SL-18-5F	= 33 =S 33 M 33		5 5 5 5 5	05YL5M 06AL3F 06AL5F 06EL3F 06EL5F	24 23 23 24 24	61HA5F 61KD5M 61NC5F 61PC5F 61PC6F	A 25 25 26		41 41 41 41 39
A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER	A4FL A4M A4ML A5F A5FD	8 8 8 8	EAC-300 EAC-300 G3MS G4MS	5 45	QGP-3- QGP-3- QGP-3- R3F R3FL	62 11	SL-18-5M SL-40-2F SL-40-2F SL-40-2M SL-40-3F	S 31 A 31	TB4M TB5M TQG3F TQG3M TQG4F	5 5 5 5 5	09BL4M 09CL4M 09DL4M 09GM4M 09LK4M	23 23 23 23 23 24		24 26 26	5501MF 5501MF 5501MF	o 39
	A5FL A5M A5ML A6F A6FD	8 8 8 8	H3MS H4MS J3FS J4FS K3FS	12 12 12 12 12	R3M R3ML R4F R4FL R4M	9 9 9 9	SL-40-3F SL-40-3N SL-40-4F SL-40-4F SL-40-4F	M 31 31 S 31	TQG4M TQG5F TQG5M TY3F TY3FPC	5 5 5 5 5	09YL4M 10AL4F 10EL4F 12BL5M 12BL6M	24 23 24 23 23	70PC8F 321 322 323 324	26 14 14 14 14	9144 9151 9180	18 18 18 18 18
	A6FL A6M A6ML A7F A7FD	8 8 8 8	K4FS L3M L3MN L4M L4MN	12 17 17 17 17	R4ML R5F R5FL R5M R5ML	9 9 9 9	SL-40-5F SL-40-5M SL-41-2F SL-41-2F SL-41-2F	A 31 32 S 32	TY4F TY4FPC TY5F TY5FPC TYEF-01	5 5 5 5 5	12CL5M 12DL5M 12GM5M 12GM6M 12LK5M	23 23 23 23 24	330F 330M 330PJ 335A 339A	42 42 42 14 14	9229 9244	18 18 18 18 18
A REAL PROPERTY AND A REAL	A7M A7ML AC3 AC3G B3F	8 8 44 44 10	L5M L5MN LAC3 LAC3G LAC3G	17 17 44 44 0 44		9 9 9	SL-41-3F SL-41-3F SL-41-3N SL-41-4F SL-41-4F	S 32 A 32 32	TYEF-02 TYEF-03 TYEF-04 TYEF-05 TYEF-08	5 5 5	12YL5M 13AL5F 13AL6F 13EL5F 15AL7F	24 23 23 24 23	383A 384A 386A 387A 389	14 14 14 14 14	9282 9287 3558-1	18 18 18 40 40
Contraction of the local distance of the loc	B3FB B3M B3MB B4F B4M		M3M M4M M5M M-1437 N3MS	17 17 17 13 12	S4FM S5FM S-3519 SL-01 SL-02	15 15 13 30 30	SL-41-4N SL-41-5F SL-41-5N T3F T3FL	32	TYEF-11 W3M W4M W5M W6M	5 12 12 12 12	15BL7M 15BL8M 15DL8M 15GM7M 15GM8M	23 23 23 23 23	390 398 391Q13 391Q23 391Q33	17	3558-5	40
	85F 85M 86F 86M 87F	10 10 10 10	P3M P4F	9 9 9 9	SL-03 SL-04 SL-05 SL-10-2 SL-10-2		T3FLM T3FM T4F T4FL T4FLM	10 10 10 10	W7M Y3F Y3FD Y3FDPC Y3FPC		20BL8M 25Y 44 52CA2F 53CA2F	23 42 38 26 26	391Q43 391Q53 391Q63 399M3F 399M3F	17 17 3 16		
	B7M C3F C3M C4F C4M11	11 10	P5M P-2392 P-2720 P-2721 P-2722	46 46	SL-10-2 SL-10-3 SL-10-3 SL-10-3 SL-10-3 SL-10-4	F 32 FS 32 M 32	T4FM T5F T5FL T5FLM T5FM	10 10 10 10	Y3MPC YEF-01 YEF-02 YEF-03 YEF-04	11 11	54CA2F 55GA2F 55HA2F 57GA3F 57GB3F	26 24 25 24 24	399M3N 399M3N 2501F 2501FL 2501FT	A3 16 A4 16 38 38 38		
	C5F C5M C6F C6M C7F	11 10 11	P-2723 P-2724 P-2725 P-2727 P-2728	46 46 46	SL-10-4 SL-10-4 SL-10-5 SL-10-5 SL-17-2	M 32 F 32 M 32	T6F T6FL T6FLM T6FM T7F	10 10 10	YEF-05 YEF-08 01QK2M 02QK2F 03BL2M	11 1 26 26	57GB5F 57HA3F 57HA5F 57HB5F 57KD3M	24 25 25 25 25	2501M 2501MF 2501MF 2501MF 2501MF	PC 38 PF 38		
	C7M CB-3F CB-3M CB-4F CB-4M	35 35 35	QG3F QG3FD QG3FDF QG3FPC QG3M	13 PC 13 C 13	SL-17-2 SL-17-2 SL-17-3 SL-17-3 SL-17-3	M 33 F 33 FS 33	T7FM TA-01 TA-02 TA-03 TA-04	10 6 6 6	03CL2M 03DL2M 04AL2F 05BL3M 05BL5M	23 23 23	57KD5M 57NC5F 57PC3F 57PC5F 58NC3F	25 25 26 26 25	2504FP 2504FR 2504M 3501F 3501FP	36 36 36 40 40		
	D3F D3FB D3FD D3M D3MB	11 11	QG4F QG4FD QG4M QG5F QG5FD	13 13 13	SL-17-4 SL-17-4 SL-17-4 SL-17-5 SL-17-5	FS 33 M 33 F 33	TA-05 TA-06 TA3F TA3FL TA3M	6 6 5 5 5	05CL3M 05CL5M 05DL3M 05DL5M 05GM3M	23 23 23	59GB3F 59GB5F 60GA4F 60GB4F 60HA4F	25 25 24 24 25	2501FR 3501M 3501MC 3502 3503	40 40 40 40 40		
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