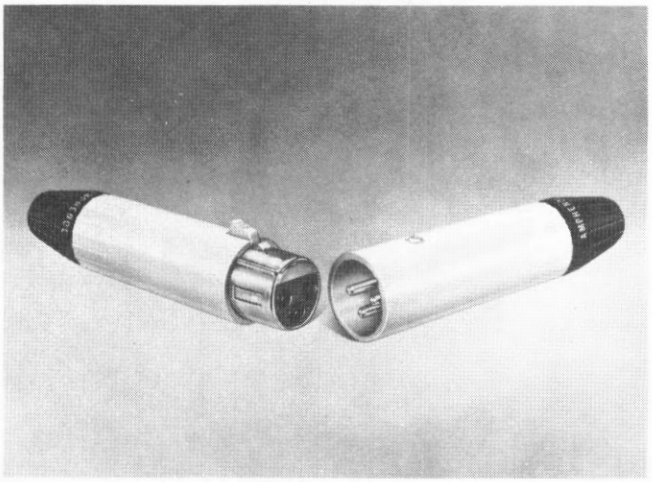
CONNECTORS FOR AUDIO/ELECTRONIC APPLICATIONS

NEW AMPHENOL 91-Q SERIES

The originator of the quick-disconnect microphone connector now brings you a new generation of connectors for audio/electronics that are intermateable and interchangeable with standard latch-lock type audio connectors.

The QWIK 91 Series is completely re-designed with rugged, high-strength zinc die-cast construction to withstand most severe uses without breakage. The non-reflective satin-nickel finish enhances the appearance of virtually any studio or test equipment.

The new 91-Q Series cable connectors also feature a "Twist-Lock" cable grip that uses no screws and needs no tools to assemble. The grip accommodates a wide range of cable diameters. This feature, plus unitized inserts, means the new 91-Q Series connectors give increased savings on connector assembly and termination.



Quality Features

Construction — Zinc die-cast connector shells and pushbutton latch.

Shell-to-Shell Ground Terminal — Separate and positive ground-to-shell terminals provided on all assemblies.

"Twist-Lock" Cable Grip — An internal, positive cable clamp activated by twisting the threaded back nut. No tools needed. No disassembly/assembly required. Quick and firm grip on 3/16" to 5/16" O.D. cables.

Anti-Vibration Springs — Place tension on mated connectors to dampen vibration and reduce hum and noise.

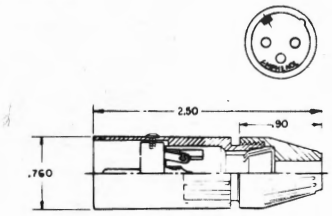
Latchlock — Pushbutton latching mechanism provides fast, positive lock and release. New die-cast construction for maximum service.

Shell Styles — Select from round or rectangular receptacle shells.

Contacts — Precision made from a copper alloy for optimum service life.

STRAIGHT CORD PLUGS

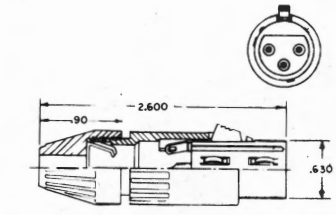
Figure A



Pin Contacts

Number of Contacts	3	4	5
Amphenol Part Number	91-3CM	91-4CM	91-5CM

Figure B

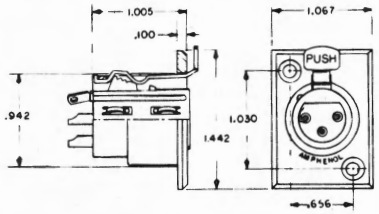


Socket Contacts

Number of Contacts	3	4	5
Amphenol Part Number	91-3CF	91-4CF	91-5CF

WALL MOUNTING RECEPTACLES

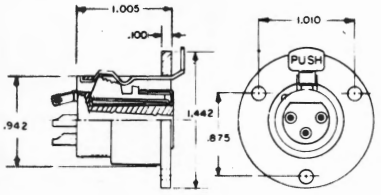
Figure A-1



Socket Contacts (mates with Fig. A)

Number of Contacts	3	4	5
Amphenol Part Number	91-3SF	91-4SF	91-5SF

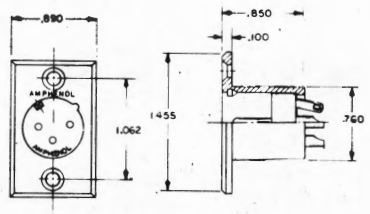
Figure A-2



Socket Contacts (mates with Fig. A)

Number of Contacts	3	4	5
Amphenol Part Number	91-3RF	91-4RF	91-5RF

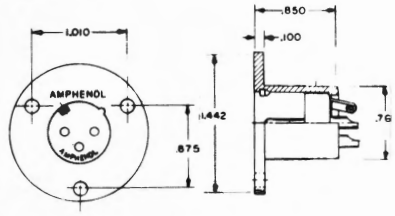
Figure B-1



Pin Contacts (mates with Fig. B)

Number of Contacts	3	4	5
Amphenol Part Number	91-3SM	91-4SM	91-5SM

Figure B-2

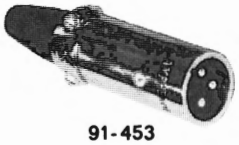


Pin Contacts (mates with Fig. B)

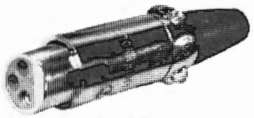
Number of Contacts	3	4	5
Amphenol Part Number	91-3RM	91-4RM	91-5RM

91 SERIES
MICROPHONE CONNECTORS

BUNKER RAMO AMPHENOL



91-453



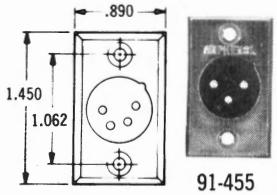
91-454

FEMALE CABLE PLUGS

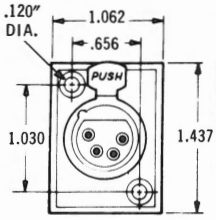
Number of Contacts		3	4	5
Part Number		91-454	91-458	91-462
Electrical	Cannon	XLR-3-11C	XLR-4-11C	XLR-5-11C
Equivalent	Switchcraft	A3F	A4F	A5F

MALE CABLE PLUGS

Number of Contacts		3	4	5
Part Number		91-453	91-457	91-461
Electrical	Cannon	XLR-3-12C	XLR-4-12C	XLR-5-12C
Equivalent	Switchcraft	A3M	A4M	A5M



91-455



91-456

CHASSIS RECEPTACLES (Mate with Female Cable Plugs)

Number of Contacts		3	4	5
Part Number		91-455	91-459	91-463
Electrical	Cannon	XLR-3-32	XLR-4-32	XLR-5-32
Equivalent	Switchcraft	D3M	D4M	D5M

CHASSIS RECEPTACLES (Mate with Male Cable Plug)

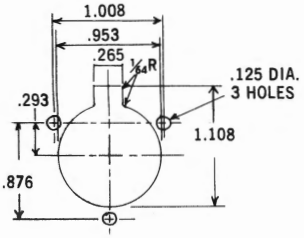
Number of Contacts		3	4	5
Part Number		91-456	91-460	91-464
Electrical	Cannon	XLR-3-31	XLR-4-31	XLR-5-31
Equivalent	Switchcraft	D3F	D4F	D5F

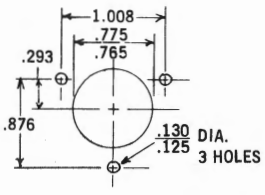
91-853

91-854

91-856

91-855





EXCELLITE CONNECTORS

A low cost, dependable audio-type connector with latchlock coupling. Made of sturdy ABS molded plastic with lustrous nickel plating, Excellite connectors resist denting, chipping, peeling or tarnishing. They are available in cable plugs and panel receptacles with 3, 4 and 5 contacts.

FEATURES

ECONOMICAL — Lower initial procurement cost, less downtime for installation, rewiring, field repairs.

LIGHTWEIGHT — Considerable weight savings over comparable die-cast zinc configurations.

WIRING — Unitized inserts (shell, button and insert are all one assembly) are easily removed and feature screw-machined solder cup type contacts for quick efficient termination.

POSITIVE GROUND — In all Excellite latchlock-type connectors, contact #1 engages first for use as ground — eliminating chance of accidental electrical damage to solid-state equipment or microphones.

POLARIZATION — Key on female connector, lock-in keyway on male to prevent mismating.

SPECIFICATIONS

- **SHELL AND CABLE CLAMP** — Molded plateable grade ABS (acrylonitrile butadiene styrene) with nickel plate over copper finish.
- **INSERT DIELECTRIC** — Molded type 6 nylon.
- **CONTACTS** — Copper alloy, silver plated and chromate dipped. Screw machine design with solder cup termination.
- **CABLE RELIEF** — General purpose 40-60 durometer neoprene rubber.
- **CABLE CLAMP** — Cable clamp and gland accepts commonly used .250" to 0.313" diameter cable.
- **ELECTRICAL CHARACTERISTICS**

	3 Contact	4 Contact	5 Contact
Voltage	133 V (RMS)	133 V (RMS)	133 V (RMS)
Current	15 A.	10 A.	7.5 A

- **TEMPERATURE RATING** — — 20°F to 160°F
- **DIELECTRIC WITHSTANDING VOLTAGE** — 1400 V at 60 Hz for one minute between any two contacts or between any contact and connector shell.

STANDARD CONTACT ARRANGEMENT
(Face View-pin insert)

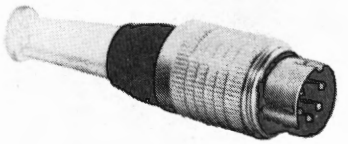
QWIKS - 91 SERIES

Efficient, easy-to-operate, quick-disconnect microphone connectors. Connectors automatically lock when fully mated. To disconnect, merely slide forward the button on female cable plug or depress button on male cable plug. Cable connectors mate for cable to cable applications — or mate cable plugs with chassis receptacles.

Qwiks are finished in attractive corrosion-resistant satin nickel, with bodies of high grade zinc alloy. Contacts are bronze, gold-plated over silver for high conductivity. Dielectric is diallyl phthalate.

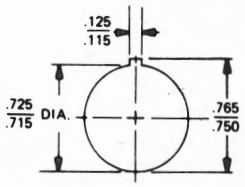
ORDERING INFORMATION

Description	3 Contacts	4 Contacts
Male Cable Plug	91-853	91-857
Female Cable Plug	91-854	91-858
Male Chassis Receptacle	91-855	91-859
Female Chassis Receptacle	91-856	91-860

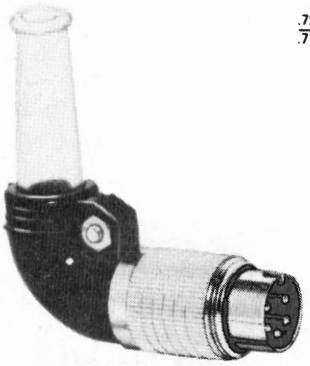


91T-3360-1

91T-3363-9



PANEL CUTOUT



91T-3360-6

91T-3363-9

91T SERIES

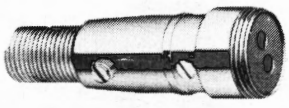
These miniature audio/electronic cable to panel connectors are available with up to 12 contacts in straight or right angle plug styles. They are ideal for use with microphones, recorders, two-way radios, test instruments, industrial controls and data processing. Approximately 33% smaller than Amphenol's standard 91 Series coupling ring connectors, these miniatures are intermateable with some types of imported European electronic equipment. They provide high density, low cost, top quality interconnections for many modern equipment requirements.

ORDERING INFORMATION

Number of Contacts	Part Numbers		
	Cable Plugs		
	Straight	Right Angle	Panel Receptacles
*2	91-T-3200-1	91-T-3200-6	91-T-3203-9
3	91-T-3260-1	91-T-3260-6	91-T-3263-9
4	91-T-3300-1	91-T-3300-6	91-T-3303-9
5	91-T-3360-1	91-T-3360-6	91-T-3363-9
6	91-T-3400-1	91-T-3400-6	91-T-3403-9
7	91-T-3475-1	91-T-3475-6	91-T-3478-9
12	91-T-3635	91-T-3635-6	91-T-3638-9

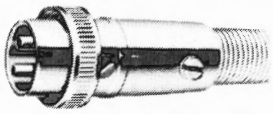
*Special Order Only.

JACK



80MC2F

PLUG



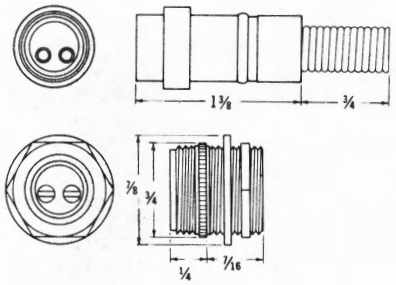
80-MC2M

PLUG

80-PC2M

RECEPTACLE

80-PC2F



80 SERIES - SINGLE AND DOUBLE CONTACTS

Connector Assemblies for use with shielded cables, single and two-conductor cables, applications for microphone cables, twisted pairs, concentric lines, photo cell leads, patch cords, and electronic instruments. Suitable for connecting many kinds of small apparatus.

Element is black phenolic; shell is machined from solid brass and finished in polished chrome.

Chassis connectors have same precision construction, assuring positive connections free from noise, leaks, or shorts. Cable plugs and panel receptacles of 80 Series are available with either male or female contacts. All mount in ⅝" holes. Maximum chassis thickness for lock-nut type receptacles is 1 1/32". Can be mounted directly on mike body with ⅝"-27 tapped hole. Cable spring guard accommodates cables to 5/16". Cap and chain 75-CCC1 can also be used with 80 Series connectors.

ORDERING INFORMATION

Contacts	Part No.	Description	Mates With
1	80-M	Male Cable Plug	80-C
1	80-C	Female Panel Receptacle	80-M
2	80-MC2M	Male Cable Plug	80-MC2F or 80-PC2F
2	80-MC2F1	Female Cable Plug	80-PC2Mor 80-MC2M1
2	80-MC2F	Female Cable Jack	80-MC2M
2	80-MC2M1	Male Cable Jack	80-MC2F1
2	80-PC2F	Female Panel Receptacle	80-MC2M
2	80-PC2M	Male Panel Receptacle	80-MC2F1
	75-CCC1	Cap & Chain for Receptacle	

91 SERIES THREADED COUPLING MICROPHONE CONNECTORS

These are 3, 4, and 6-contact connectors designed primarily for audio equipment but used extensively on all types of portable equipment.

Positive screw-type coupling ring connection eliminates accidental disconnects. Squeeze type clamp grips cable securely after assembly and prevents pulling and twisting strain on soldered contacts.

Dielectric is molded from black phenolic cable. Shells are of brass, finished in bright chrome plating.

Cord protector springs on a 3-contact style have .281" I.D.; 4 and 6-contact styles have .385" I.D. Chassis receptacles mount in 27/32" dia. chassis holes up to 1/8" thick. Service end accommodates coupling ring on cable connector or cap and chain to seal open chassis units against dirt or tampering.

ORDERING INFORMATION

No. Contacts	P/N	Description	Mates With
3	91-MC3F	Female Cable Jack	91-MC3M
3	91-MC3F1	Female Cable Plug	91-MC3M1, 91-PC3M
3	91-MC3M	Male Cable Plug	91-MC3F, 91-PC3F
3	91-MC3M1	Male Cable Jack	91-MC3F1
3	91-PC3F	Female Panel Receptacle	91-MC3M
3	91-PC3M	Male Panel Receptacle	91-MC3F1
4	91-MC4F	Female Cable Jack	91-MC4M
4	91-MC4F1	Female Cable Plug	91-MC4M1, 91-PC4M
4	91-MC4M	Male Cable Plug	91-MC4F, 91-PC4F
4	91-MC4M1	Male Cable Jack	91-MC4F1
4	91-PC4F	Female Panel Receptacle	91-MC4M
4	91-PC4M	Male Panel Receptacle	91-MC4F1
6	91-MC6F	Female Cable Jack	91-MC6M
6	91-MC6F1	Female Cable Plug	91-MC6M1, 91-PC6M
6	91-MC6M	Male Cable Plug	91-MC6F, 91-PC6F
6	91-MC6M1	Male Cable Jack	91-MC6F1
6	91-PC6F	Female Panel Receptacle	91-MC6M
6	91-PC6M	Male Panel Receptacle	91-MC6F1
—	91-CCC3	Cap & Chain for Receptacle	

75 SERIES SINGLE CONTACT

Standard type used on microphones, amplifiers, speakers, transmitters, etc. Brass machined shells with chrome finish. Threaded coupling and unique button contact permits plugs to be converted to jacks by removal of coupling ring. Receptacles mount in .385" holes when grounding. .500" holes for ungrounded two circut operation. Spring cord protection for 1/4" cable.

ORDERING INFORMATION

Description	Part No.
Chassis Receptacle	80-75-PC1M
Straight Plug	80-75-MC1F
Cable Jack	80-75-MC1M
Angle Plug	80-75-MC1FA
Cap & Chain	80-75-CCC1
Phone Plug Adapter	80-75-MC1P

91 SERIES MINIATURE CABLE CONNECTORS ORDERING INFORMATION

High quality compact connectors for shielded or unshielded cables. Make ideal battery or antenna connectors. Can also serve as inexpensive microphone connectors.

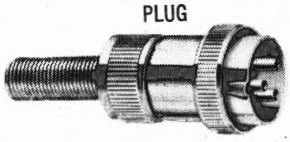
Black phenolic elements, housed in cadmium plated brass shells and held in place by set screws in side. Polarized contact spacing prevents incorrect insertion. Accommodate cables up to 1/4" diameter. Rated 3 amps., 500 volts.

ORDERING INFORMATION

No. Contacts	Short Shell 13/16" Long	Long Shell 13/16" Long	Mating Sockets: Cable Socket Short 13/16"	Mating Sockets: Cable Socket Long 13/16"	Mating Sockets: *Chassis Shielded	Mating Sockets: Chassis Unshielded
3	91-MPM3S	91-MPM3L	91-MPF3S	91-MPF3L	78-PCG4	78-S3S
4	91-MPM4S	91-MPM4L	91-MPF4S	91-MPF4L	78-PCG3	78-S4S
5	91-MPM5S	91-MPM5L	91-MPF5S	91-MPF5L	78-PCG5	78-S5S
6	91-MPM6S	91-MPM6L	91-MPF6S	91-MPF6L	78-PCG6	78-S6S

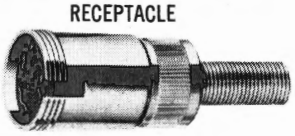
*Note — long shell only.

PLUG

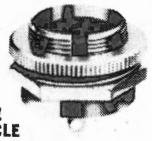


91-MC3M

RECEPTACLE

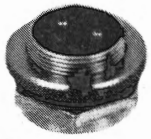


91-MC3F



FEMALE RECEPTACLE

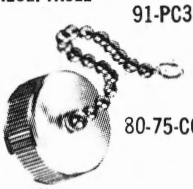
91-PC3F



MALE RECEPTACLE

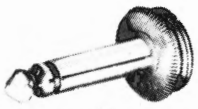
91-PC3M

80-75-PC1M

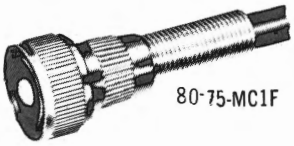


80-75-CCC1

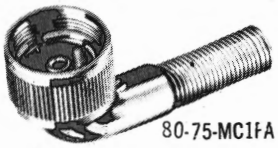
80-75-MC1M



80-75-MC1P

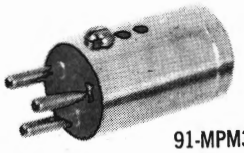


80-75-MC1F

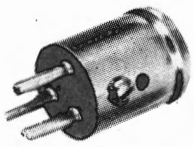


80-75-MC1FA

91-MPF3L



91-MPM3L



91-MPM3S

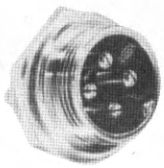
91-MPF3S

ORDERING INFORMATION — CABLE SOCKETS

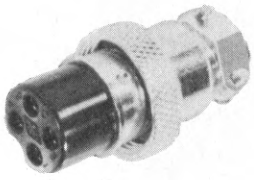
No. Contacts	Short Shell 13/16" Long	Long Shell 13/16" Long	Mating Plugs: Cable Plug Short 13/16"	Mating Plugs: Cable Plug Long 13/16"	Chassis Unshielded
3	91-MPF3S	91-MPF3L	91-MPM3S	91-MPM3L	86-CP3S
4	91-MPF4S	91-MPF4L	91-MPM4S	91-MPM4L	86-CP4S
5	91-MPF5S	91-MPF5L	91-MPM5S	91-MPM5L	
6	91-MPF6S	91-MPF6L	91-MPM6S	91-MPM6L	

MICROPHONE CONNECTORS

BUNKER RAMO AMPHENOL



80-871



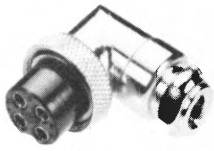
80-870

PLUG AND CHASSIS MOUNT RECEPTACLE

Coupling ring design assures positive electrical contact. Quality materials and craftsmanship provide years of trouble free preformance.

ORDERING INFORMATION

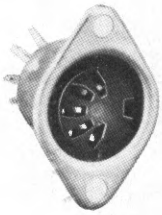
No. Contacts	Part No.	Description	Mates With
3	80-868	Female Plug	80-869(M) Chassis Receptacle
4	80-870	Female Plug	80-871(M) Chassis Receptacle
5	80-890	Female Plug	80-891(M) Chassis Receptacle
6	80-874	Female Plug	80-875(M) Chassis Receptacle



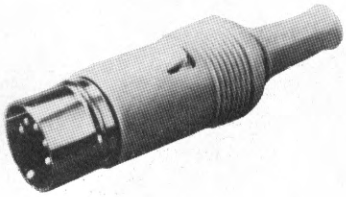
80-870AP

80-870AP 4 PIN ANGLE MIKE PLUG

Right Angle (F) connector for tight installations and where receptacle is on side of transceiver. Mates with 80-871(M) Chassis Receptacle (above).



80-883

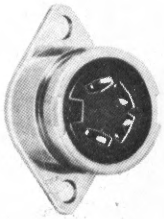


80-882

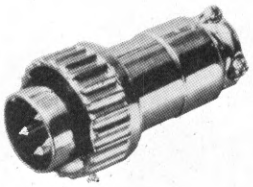
DIN TYPE PLUGS

ORDERING INFORMATION

No. Contacts	Part No.	Description	Mates With
4	80-892	Male Plug	—
5	80-882	Male Plug	80-883(F) Receptacle
6	80-884	Male Plug	80-885(F) Receptacle



80-877

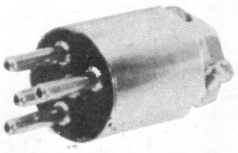


80-876

TWIST LOCK PLUGS

ORDERING INFORMATION

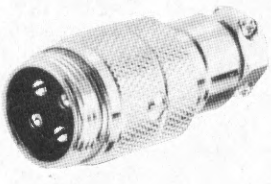
No. Contacts	Part No.	Description	Mates With
4	80-876	Male Plug	80-877(F) Receptacle
5	80-878	Male Plug	80-879(F) Receptacle



80-872

80-872 4 PIN "Y" PLUG

Designed for fast, reliable assembly, these "Y" configuration microphone plugs are designed to mate with the receptacles on many imported CB sets.



80-886

80-886 4 PIN (M) "IN-LINE" RECEPTACLE

A fast solution for extending CB mike cords for use with external PA systems . . . or for extending base station mike cords to give the operator more freedom of movement. Simply terminate the right length of mike cord with the male mike receptacle (80-886) on one end and the matching female plug (80-870) on the other.