

DIN CONNECTORS (continued)

DIN CORD PLUG PART NUMBERING SYSTEM

Contact Arrangement Angle	Series	Color	Number of Contacts	Gender
03 -	B STRAIGHT METAL SHELL	L BLACK	3	M MALE
05 180°	C LOCKING METAL SHELL		4	
09 210°	D RIGHT ANGLE METAL SHELL		5	
12 240°	G STRAIGHT PLASTIC SHELL	M GREY (G SERIES ONLY)	6	
15 270°	J STRAIGHT PLASTIC SHELL		7	
20 262°	Y LOCKING RIGHT ANGLE METAL SHELL		8	
04 -	A STRAIGHT METAL SHELL			F FEMALE
06 180°	E LOCKING METAL SHELL			
10 210°				
13 240°				
15 270°				

DIN CONNECTOR PART NUMBERING SYSTEM

Contact Arrangement Angle	Series	Terminal Type	Number of Contacts	Gender	Options
57 180°	G FLANGED FRONT MOUNT	A STRAIGHT SOLDER TERMINALS	3	M MALE	
58 180° (3 PIN, 2 BLANKS)	H LOCKING FLANGED FRONT MOUNT	B FLARED SOLDER TERMINALS	4	F FEMALE	
59 180° (PLUS SWITCH)	N STRAIGHT PC MOUNT	C PC TERMINALS	5		
60 210°	P RIGHT ANGLE PC MOUNT		6		S SHIELDED
61 240°			7		T SHORT SHIELD
62 270°			8		
70 262°					

NOTES: 1. OPTIONS AVAILABLE ON P SERIES ONLY.

 DIMENSIONS ARE FOR REFERENCE ONLY $\frac{\text{Inch}}{\text{(mm)}}$

NOTE: Contact your Switchcraft Representative for price and delivery.

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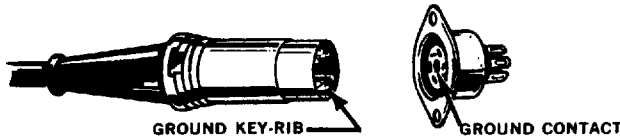
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DIN CONNECTORS

APPLICATIONS

The DIN family of connectors 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.

DESIGN FEATURES



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.

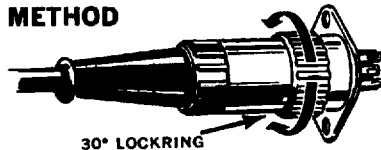
BUILT-IN SWITCHING:

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:

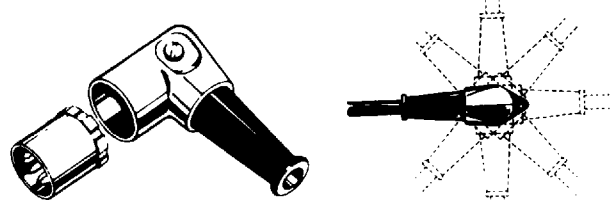
On locking types, locking couples mating plugs and receptacles securely, even under shock and vibration conditions.

CONTACT PINS AND 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.

Designed for 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 among the most popular, high quality, low-cost connectors in the world.

8-POSITION RIGHT-ANGLE PLUG



Unique 8-position barrel enables positioning of 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.

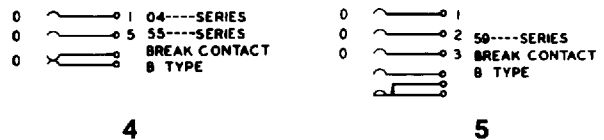
POLARIZATION

Polarization by contact arrangement and a ground key-rib virtually eliminates possibility of incorrect mating.

CABLE ENTRIES

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

SCHEMATIC CIRCUITS



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DIN CONNECTORS (continued)

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)
Contact Rating: 5-pin; 3A, 34 V DC
Leakage Resistance: 10⁵ MΩ
Recommended Wire Size: 22 wire gauge maximum

MECHANICAL

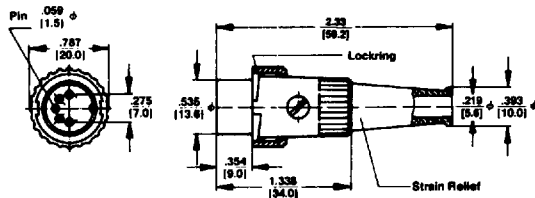
Insertion/Withdrawal Forces:

Number of Contacts	Insertion Force pound/N	Withdrawal Force pound/N
2	3.6/(16)	.45- 2.7/(2-12)
3	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)

NOTE: All connectors meet DIN specifications #41524. Din specification numbers (except for 4-pin, 5-pin @ 240°, and 8-pin @ 262°)

DIN PLUGS

STRAIGHT CORD PLUG with 30° lock ring



Type 05CL5M - typical Male plug with ground key-rib. Unique 30° turn locking securely fastens two halves of connector. Mates with lock flange female connectors and receptacles. Insert screw holds insert assembly in shell and also retains locking on shell. Flexible black strain relief with 7/32" diameter cable entry. Heavy duty clamp.

ORDERING INFORMATION

Part Number	Description	Pin Arrangement
03CL2M	2 pins with insulated switch actuator	1
05CL3M	3 pins at 180°	2
09CL4M	4 pins at 210°	3
12CL5M	5 pins at 240°	4
15CL7M	7 pins at 270°	7
15CL8M	8 pins at 270°	9

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

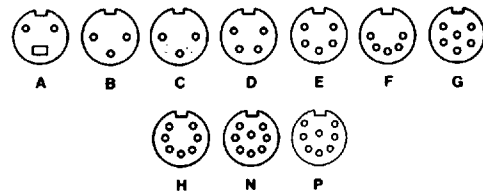
MATERIAL

Shell: Die-cast zinc alloy, nickel-plated.
Receptacle Mounting Flange: Steel.
Receptacle Body: Plastic.
Insert Material: Plastic.
Socket Contacts: Tin-plated.
Pin Contacts: Tin-plated.
Switching Contacts: Silver-plated.
Cable Relief Bushing: Soft plastic.

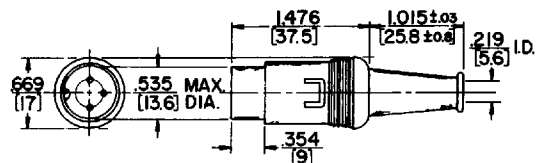
PIN ARRANGEMENTS



CONTACT ARRANGEMENTS



STRAIGHT CORD PLUG with Shielded Barrel



Type 15GM7M - typical Male cord plug with shielded barrel and insulated snaplock plastic body. Two piece 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 place. Standard color of plastic shell is gray. All-purpose cable clamp.

ORDERING INFORMATION

Part Number	Description	Pin Arrangement
05GM3M	3 pins at 180° Gray body and strain relief.	2
09GM4M	4 pins at 210° Gray body and strain relief	3
12GM5M	5 pins at 240° Gray body and strain relief	4
12GM6M	6 pins at 240° Gray body and strain relief	6
15GM7M	7 pins at 270° Gray body and strain relief	7
15GM8M	8 pins at 270° Gray body and strain relief	9
20GM8M	8 pins at 262° Gray body and strain relief	10

SPECIFYING NOTE: Use letter "JL" in place of "GM" to order same part number with black housing.

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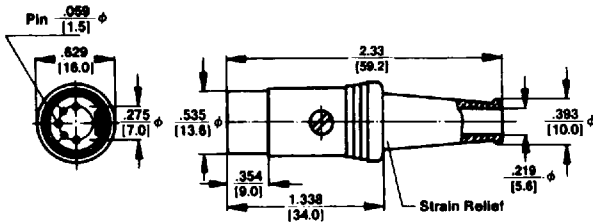
DIN PLUGS AND RECEPTACLES

STRAIGHT CORD PLUG with Extended Barrel



Type 12BL6M - typical

Male plug with ground key-rib. Nickel-plated diecast handle. Contact friction coupling. Flexible black strain relief. Heavy duty cable clamp.



ORDERING INFORMATION

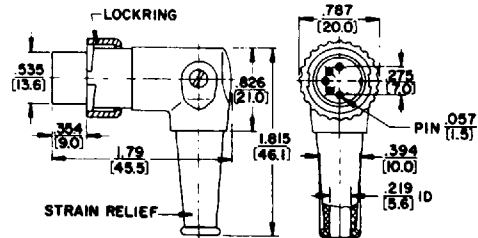
Part Number	Description	Pin Arrangement
03BL2M	2 pins with insulated switch actuator	1
05BL3M	3 pins at 180°	2
05BL5M	5 pins at 180°	5
09BL4M	4 pins at 210°	3
12BL5M	5 pins at 240°	4
12BL6M	6 pins at 240°	6
15BL7M	7 pins at 270°	7
15BL8M	8 pins at 270°	9
20BL8M	8 pins at 262°	10

RIGHT-ANGLE CORD PLUG with 8 Position Barrel and 30° Lockring



Type 05YL5M - typical

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 locking securely fastens two halves of connector.

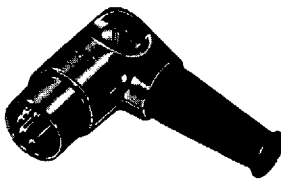


ORDERING INFORMATION

Part Number	Description	Pin Arrangement
05YL3M	3 pins at 180°	2
05YL5M	5 pins at 180°	5
09YL4M	4 pins at 210°	3
12YL5M	5 pins at 240°	4

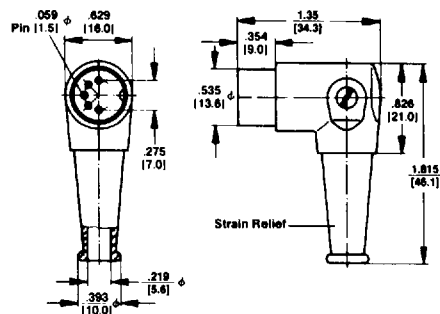
RIGHT-ANGLE CORD PLUG with 8 Position Barrel

05DL5M shown



Type 05DL5M - typical

Right-angle chassis hugging, male plug with flexible black rubber strain relief. Unique 8-position barrel offers a choice of eight different cable entry angles.



ORDERING INFORMATION

Part Number	Description	Pin Arrangement
03DL2M	2 pins with insulated switch actuator	1
05DL3M	3 pins at 180°	2
05DL5M	5 pins at 180°	5
09DL4M	4 pins at 210°	3
12DL5M	5 pins at 240°	4
12DL6M	6 pins at 240°	6
15DL7M	7 pins at 270°	7

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

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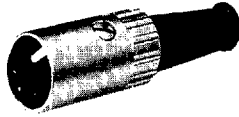
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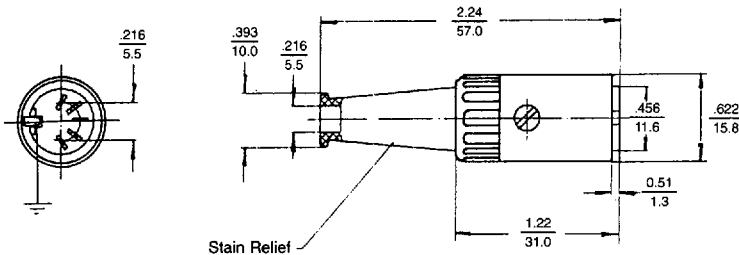
DIN PLUGS AND RECEPTACLES (continued)

STRAIGHT CORD PLUG with Flush Socket Insert



Type 04AL2F — typical

Female plug with ground contact. Diecast metal shell, nickel-plated. Two contact plug, Part number 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.



ORDERING INFORMATION

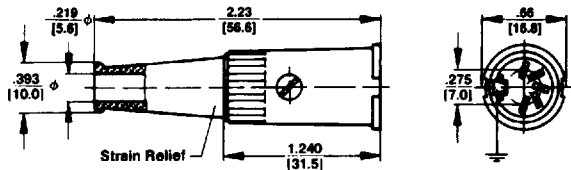
Part Number	Description	Contact Arrangement
◊04AL2F	2 contacts with closed-circuit switch (Schematic #4)	A
◊06AL3F	3 contacts at 180°	B
◊06AL5F	5 contacts at 180°	F
◊10AL4F	4 contacts at 210°	D
◊13AL5F	5 contacts at 240°	E
◊13AL6F	6 contacts at 240°	G
◊15AL7F	7 contacts at 270°	H
◊15AL8F	8 contacts at 270°	N

STRAIGHT CORD PLUG with Lock Flange



Type 06EL5F - typical

Female plug with ground contact. Lock flange designed to accept 30° locking. Insert screw firmly holds insert assembly in shell. Flexible black strain relief with 7/32 inch diameter cable entry. Heavy duty cable clamp.

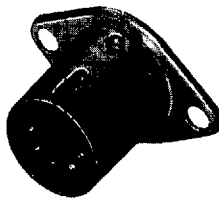


ORDERING INFORMATION

Part Number	Description	Contact Arrangement
◊04EL2F	2 contacts with insulated switch actuator	A
◊06EL3F	3 contacts at 180°	B
◊06EL5F	5 contacts at 180°	F
◊10EL4F	4 contacts at 210°	D
◊13EL5F	5 contacts at 240°	E
◊15EL7F	7 contacts at 270°	H
◊15EL8F	8 contacts at 270°	N

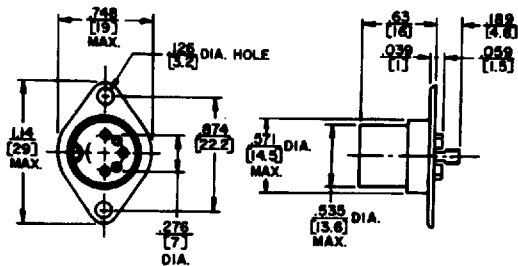
RECEPTACLE with Extended Shell

57KD5M shown



Type 57KD3M - typical

Male receptacle, 3 pins, with ground key-rib. Diecast extended shell and flange for chassis or panel mounting. Turret terminals.



ORDERING INFORMATION

Part Number	Description	Pin Arrangement
57KD3M	3 pins at 180°	2

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