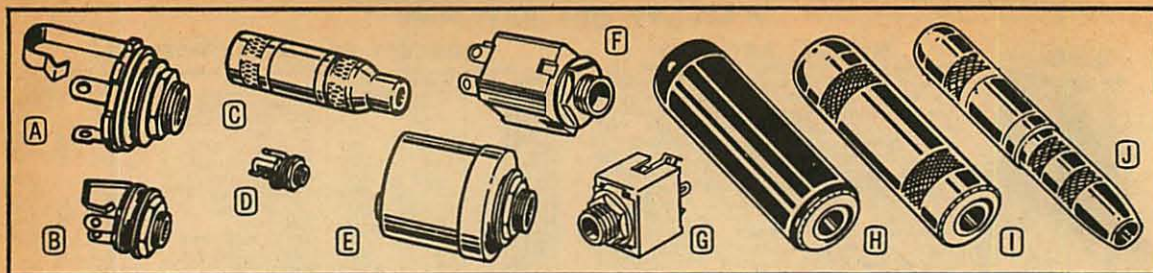


# SWITCHCRAFT Phone Jacks



## "LITTEL-JAX" PHONE JACKS

**A** Economical phone jacks with notched insulating washers mechanically interlock springs and solder lugs. "V" bend in tip spring firmly "holds" mating plug. Minimum space requirements; mount in single  $\frac{3}{8}$ " hole, panels up to  $\frac{1}{4}$ " thick, except L-11 and L-12A in panels up to  $\frac{1}{2}$ " thick. Nos. C-11 and C-12B have locating pins (non-turn devices). No. S-11 similar to No. 11 except 210° I.D. sleeve. Typical Mating: All mate with standard  $\frac{1}{8}$ " dia. plug except: C-11 (JJ-034) and C12A (JJ-089) mate with 440 (PJ-055B) plug; C-12B (JJ-033), S-12B and S-13B mate with 480 (JAN-PJ-068) or 484 (W.E. 309) plug. No. 14B Stereo Littell-Jax switches-out speakers when connecting stereo headphones. Dual, NO switch contacts, open both stereo circuits independently when a three-conductor plug is inserted.

### TWO-CONDUCTOR TYPES

Part No.	Schematic Number	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
11	I	\$0.24	\$0.192	\$0.164	\$0.144	\$0.135	\$0.128
C-11*	I	.36	.325	.279	.244	.229	.217
L-11	I	.30	.225	.193	.169	.159	.15
S-11	I	.27	.233	.20	.175	.165	.156
12A	III	.27	.233	.20	.175	.165	.156
C-12A*	III	.45	.35	.30	.263	.247	.233
L-12A	III	.33	.267	.229	.20	.188	.178
13	V	.54	.50	.429	.375	.353	.333
13A	VI	.51	.458	.393	.344	.324	.306
13E	IX	.54	.50	.429	.375	.353	.333

### THREE-CONDUCTOR TYPES

Part No.	Schematic Number	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
12B	IV	\$0.33	\$0.297	\$0.254	\$0.223	\$0.209	\$0.198
C-12B*	IV	.42	.383	.329	.288	.271	.256
L-12B	IV	.39	.347	.297	.26	.245	.231
S-12B	IV	.39	.358	.307	.269	.253	.239
13B	VIII	.45	.417	.357	.313	.294	.278
S-13B	VIII	.57	.517	.443	.388	.365	.344
14B	X	.57	.50	.43	.38	.36	.34

\*Per JAN-J-641.

## "TINI-JAX" MINIATURE PHONE JACKS

**B** Miniature 2-conductor jacks mate with 750 plug. Approximately  $\frac{1}{2}$  the size of "Littell-Jax"; otherwise similar in construction. Mount in  $\frac{1}{8}$ " dia. hole; panel up to  $\frac{1}{8}$ " thick. No. 43A has a unique spring design that requires a pear shaped tip, such as Switchcraft "Tini-Plug" No. 750.

Part No.	Schematic Number	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
41	I	\$0.24	\$0.192	\$0.164	\$0.144	\$0.135	\$0.128
42A	III	.27	.233	.20	.175	.165	.156
43A	VI	.42	.367	.314	.275	.259	.244

## "TINI-EXTENSION JAX"

**C** An extension or cable jack to mate with "Tini-Plugs". Two-conductor. Metal housing for ruggedness and electrical shielding. Solder lug terminals.

Part No.	Net Each	1-24	25-49	50-99	100-249	250-499	500-999
125		\$0.75	\$0.667	\$0.571	\$0.50	\$0.471	\$0.444

## "MICRO-JAX" SUBMINIATURE PHONE JACK

**D** Precision manufactured jack for miniaturized applications. Only  $\frac{1}{25}$ th the size of standard phone jacks. Mates with "Micro-Plug", Series 850, 880. Two-conductor, single closed circuit. Silver plating on special tempered nickel silver springs. Internally keyed nylon insulation interlocks springs and solder lugs to eliminate shorts. Fits .190" dia. hole in panels to  $\frac{1}{8}$ " thick.

Part No.	Schematic Number	1-24	25-49	50-99	100-249	250-499	500-999
TR-2A	III	\$0.27	\$0.233	\$0.20	\$0.175	\$0.165	\$0.156

## "SHIELDED JAX"

**E** A unique modification of the "Littell-Jax". The shield is assembled into and made part of the jack. Ideal for high impedance circuits. CN-11 and CN-12A are 2-conductor type, mate with 250 Plug; others are 3-conductor and mate with 267 Plug.

Part No.	Schematic Number	1-24	25-49	50-99	100-249	250-499	500-999
CN-11	I	\$0.48	\$0.417	\$0.357	\$0.313	\$0.294	\$0.278
CN-12A	III	.51	.45	.386	.338	.318	.30
CN-12B	IV	.57	.517	.443	.388	.365	.344
CN-13B	VIII	.69	.633	.543	.475	.447	.422



The above electrical schematics do not necessarily indicate relative solder lug positions.

## "HI-D JAX" PHONE JACKS

**F** Compact phone jacks mate with std.  $\frac{1}{8}$ " phone plugs. Molded box body protects integral silver-plated, nickel silver springs. Low contact resistance and electrical leakage with little capacity between the springs. Mount on  $\frac{3}{8}$ " centers in single  $\frac{3}{8}$ " dia. hole, panels up to  $\frac{1}{2}$ " thick, depth behind panel, 1 $\frac{1}{2}$ ". All part nos. with "L" prefix mount in panels up to  $\frac{1}{2}$ " thick; part nos. with "N" prefix feature a threaded nylon bushing to provide complete insulation of jack sleeve from mtg. panel. Stereo "HI-D Jax", Nos. 114B, L-114B, N-114B: Switches out speakers when connecting stereo headphones. Dual NO switch contacts open both stereo circuits independently when a 3 cond. plug is inserted.

### TWO CONDUCTOR TYPES—MATE NO. 250 PLUG

Part No.	Schematic Number	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
111	I	\$0.24	\$0.192	\$0.164	\$0.144	\$0.135	\$0.128
L-111	I	.30	.225	.193	.169	.159	.15
N-111	I	.30	.225	.193	.169	.159	.15
112A	III	.27	.233	.20	.175	.165	.156
L-112A	III	.33	.267	.229	.20	.188	.178
N-112A	III	.33	.267	.229	.20	.188	.178
113	V	.54	.50	.429	.375	.353	.333
113D	VI	.54	.50	.429	.375	.353	.333
113E	IX	.54	.50	.429	.375	.353	.333

### THREE CONDUCTOR TYPES—MATE NO. 267 PLUG

Part No.	Schematic Number	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
112B	IV	\$0.30	\$0.225	\$0.193	\$0.169	\$0.159	\$0.15
L-112B	IV	.39	.347	.297	.26	.245	.231
N-112B	IV	.39	.347	.297	.26	.245	.231
113B	VIII	.39	.347	.297	.26	.245	.231
L-113B	VIII	.45	.417	.357	.313	.294	.278
N-113B	VIII	.45	.417	.357	.313	.294	.278
113F	VII	.39	.347	.297	.26	.245	.231
114B	X	.45	.417	.357	.313	.294	.278
L-114B	X	.51	.451	.391	.34	.323	.306
N-114B	X	.51	.451	.391	.34	.323	.306

## "TINI-D JAX" SUBMINIATURE PHONE JACKS

**G** Small completely enclosed, molded phone jack mate with "Tini-Plugs" No. 750. Phenolic housing protects the bifurcated beryllium copper springs from being bent during mounting. Two conductor. No. 142A has threaded bushing for conventional mtg.; No. PC-142A, with plain bushing. Both have tip spring terminals that "snap-in" P.C. boards. Mount on  $\frac{3}{8}$ " ctrs.,  $\frac{1}{8}$ " dia. hole, panels to  $\frac{1}{8}$ " thk., depth behind panel,  $\frac{1}{8}$ ".

Part No.	Schematic Number	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
142A	III	\$0.27	\$0.233	\$0.20	\$0.175	\$0.165	\$0.156
PC-142A	III	.30	.265	.23	.20	.19	.18

## "EXTENSION JAX" CABLE EXTENSION JACKS

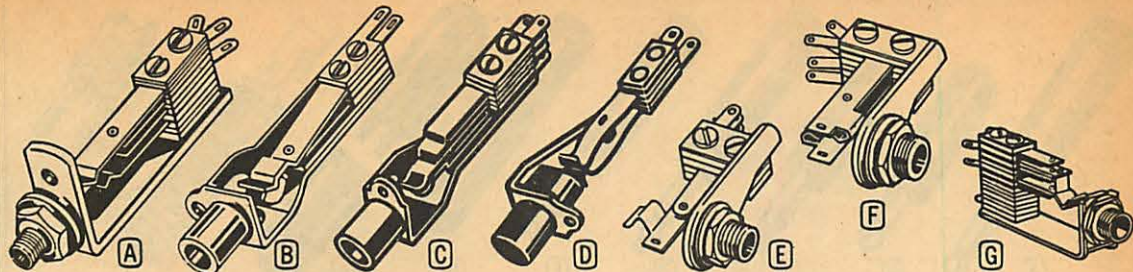
**H I J** Standard  $\frac{1}{8}$ " dia. 2- and 3-conductor extension phone jacks with solder lugs or screw type terminals. Black handles, durable plastic; shielded handles are brass, bright nickel-plated. Size,  $\frac{1}{8}$ " O.D., 2 $\frac{1}{2}$ " lg.; Nos. 121, 131,  $\frac{1}{2}$ " O.D., 2 $\frac{1}{2}$ " lg.

### WITH BLACK PLASTIC HANDLE

Part No.	Fig.	Cond.	Term.	Net Each, Lots of					
				1-24	25-49	50-99	100-249	250-499	500-999
80	H	2	Screw	\$0.69	\$0.625	\$0.536	\$0.469	\$0.441	\$0.417
80	H	2	Solder	.60	.525	.45	.394	.371	.35
830	H	3	Screw	.93	.825	.707	.619	.582	.55
S-830	H	3	Screw	1.20	1.13	.971	.85	.80	.756
838	H	3	Solder	.84	.742	.636	.556	.524	.494

### WITH SHIELDED HANDLE

Part No.	Fig.	Cond.	Term.	Net Each, Lots of					
				1-24	25-49	50-99	100-249	250-499	500-999
120	I	2	Screw	\$0.93	\$0.825	\$0.707	\$0.619	\$0.582	\$0.55
121	J	2	Solder	.96	.883	.757	.663	.624	.589
126	I	2	Solder	1.08	.967	.829	.725	.682	.644
128	I	2	Solder	.84	.742	.636	.556	.524	.494
S-128	I	2	Solder	.90	.833	.714	.625	.588	.556
131	J	3	Solder	1.20	1.13	.971	.85	.80	.756
1230	I	3	Screw	1.17	1.07	.914	.80	.753	.711
S-1230	I	3	Screw	1.50	1.40	1.20	1.05	.988	.933
1238	I	3	Solder	1.08	.967	.829	.725	.682	.644



### "M-JAX" MILITARY TYPE PHONE JACKS

**A** Very heavy long frame jacks often referred to as the Navy Jack. For industrial and military equipment. Long, heavy duty springs with fine silver contacts. Mount on single  $\frac{3}{8}$ " hole, in panels up to  $\frac{1}{4}$ " thick.

Part Number	Schematic Number*	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
M-441	I	\$0.90	\$0.767	\$0.657	\$0.575	\$0.541	\$0.511
M-442A	III	1.02	.90	.771	.675	.635	.60
M-443A	VI	1.17	1.02	.871	.763	.718	.678
M-443B	VII	1.26	1.05	.90	.788	.741	.70
M-444*	XII	1.38	1.12	.957	.838	.788	.744
M-444B	XII	1.32	1.07	.914	.80	.753	.711
M-445	XIII	1.65	1.22	1.04	.913	.859	.811
M-446	XIV	2.10	1.73	1.49	1.30	1.22	1.16
M-446A	XVI	2.34	1.82	1.56	1.36	1.28	1.21

\*Bushing, .2085".

### "MT-JAX" MILITARY TELEPHONE JACKS

**B** Long frame, telephone switchboard jacks designed for high quality communication and military equipment. Springs are of a special nickel silver alloy with welded cross bar palladium contacts. "A" frame design with side mounting ear. All jacks listed mate with  $\frac{1}{4}$ " diameter phone plugs, unless otherwise indicated.

**C** "C" frame design with mounting ear centered at top of frame; to order, add prefix "C" to part number.

Part Number	Schematic Number*	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
MT-331	I	\$0.90	\$0.633	\$0.543	\$0.475	\$0.447	\$0.422
MT-332	II	1.02	.75	.643	.563	.529	.50
MT-332A	III	1.02	.75	.643	.563	.529	.50
MT-332B	IV	1.02	.75	.643	.563	.529	.50
MT-332C	VIII	1.17	.833	.714	.625	.588	.556
MT-333	V	1.17	.883	.757	.663	.624	.589
MT-333B	VII	1.17	.883	.757	.663	.624	.589
MT-333E	IX	1.17	.883	.757	.663	.624	.589
MT-334A	XI	1.20	.917	.786	.688	.647	.611
MT-334B	XII	1.20	.917	.786	.688	.647	.611
MT-334C	XVII	1.20	.917	.786	.688	.647	.611
MT-334E	XXV	1.20	.917	.786	.688	.647	.611
MT-334F	XIX	1.20	.917	.786	.688	.647	.611
MT-335	XIII	1.35	1.02	.871	.763	.718	.678
MT-335A	XXVI	1.35	1.18	1.01	.888	.835	.789
MT-336	XX	1.35	1.02	.871	.763	.718	.678
MT-336A	XIV	1.65	1.32	1.13	.988	.929	.878
MT-336B	XXI	1.65	1.32	1.13	.988	.929	.878
MT-336C	XXII	1.65	1.32	1.13	.988	.929	.878
MT-336E	XXIII	1.65	1.32	1.13	.988	.929	.878
CMT-336E	XIII	1.65	1.32	1.13	.988	.929	.878
MT-337	XXIV	1.65	1.32	1.13	.988	.929	.878
CMT-337	XXIV	1.65	1.32	1.13	.988	.929	.878
MT-339	XXVII	2.40	2.05	1.76	1.54	1.45	1.37
MT-342B*	IV	1.17	.783	.671	.588	.553	.522
MT-344B*	XII	1.35	.967	.829	.725	.682	.644

\*Bushing, .2085".

### "T-JAX" TELEPHONE TYPE PHONE JACKS

**B** Long frame, switchboard type, phone jacks. For high quality communication equipment. Springs of nickel silver alloy for maximum life and corrosion resistance. Fine silver contacts are standard. "A" frame design with side mounting ear. All jacks listed mate with standard  $\frac{1}{4}$ " diameter phone plugs.

**C** "C" frame design with mounting ear centered at top of frame; to order, add prefix "C" to part number.

Part Number	Schematic Number*	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
T-331*	I	\$0.63	\$0.517	\$0.443	\$0.388	\$0.365	\$0.344
T-332A*	III	.72	.60	.514	.45	.424	.40
T-332B†	IV	.72	.60	.514	.45	.424	.40
T-332C*	VIII	.87	.692	.593	.519	.488	.461
T-333*	V	.81	.742	.636	.556	.524	.494
T-334A*	XI	.90	.775	.664	.581	.547	.517
T-334B†	XII	.96	.825	.707	.619	.582	.55
T-334C*	XVII	.90	.825	.707	.619	.582	.55
T-334F*	XIX	.90	.825	.707	.619	.582	.55
T-335*	XIII	.96	.875	.75	.656	.618	.583
T-336*	XXVI	1.05	.825	.707	.619	.582	.55

\*Two-conductor, mates with 250 Plug. †Three-conductor, mates with 267 Plug.

### "LAMP JAX" SWITCHBOARD PANEL TYPE

**D** Black nylon lamp housing completely insulates lamp from frame. Interchangeable with W.E. Nos. 47A and 47B. Accepts standard switchboard lamps and lamp caps, W.E. Nos. 2 and 72, etc.

LT-47	.....	\$0.84	\$0.742	\$0.636	\$0.556	\$0.524	\$0.494
-------	-------	--------	---------	---------	---------	---------	---------

### "SF-JAX" SHORT FRAME PHONE JACKS

**E** Series 20—High quality commercial jacks, solder lugs parallel to mounting surface. Mount in  $\frac{3}{8}$ " dia. holes, panels up to  $\frac{1}{4}$ " thick.

**F** Series 50—Similar to Series 20, except solder lug location. Require more depth but less panel space; panels up to  $\frac{1}{4}$ " thick. Series C-20 and C-50—Similar to commercial Series 20 and 50, except have military insulation and finishes; both will mount in panels up to  $\frac{1}{4}$ " thick. MIL designation: C-23 (JJ-099), C-23A (JJ-098), C-23E (JJ-102), C-51 (JJ-096), C-52A (JJ-097), C-52B (JJ-103), C-53A (JJ-092), C-54A (JJ-093), C-54B (JJ-101), C-55B (JJ-095).

All "SF-Jax" mate with standard  $\frac{1}{4}$ " diameter plugs, except as noted.

#### SERIES 20 AND C-20

Part No.	Schematic Number*	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
21	I	\$0.39	\$0.358	\$0.307	\$0.269	\$0.253	\$0.239
22	II	.48	.442	.379	.331	.312	.294
22A	III	.48	.442	.379	.331	.312	.294
22B	IV	.48	.442	.379	.331	.312	.294
23	V	.57	.533	.457	.40	.376	.356
C-23*	V	.81	.767	.657	.575	.541	.511
23A	VI	.57	.533	.457	.40	.376	.356
C-23A*	VI	.81	.767	.657	.575	.541	.511
23B	VII	.57	.533	.457	.40	.376	.356
23C	VIII	.57	.533	.457	.40	.376	.356
23E	IX	.57	.533	.457	.40	.376	.356
C-23E*	IX	.81	.767	.657	.575	.541	.511
24	X	.66	.617	.529	.463	.438	.411
24A	XI	.66	.617	.529	.463	.435	.411
24B	XII	.66	.617	.529	.463	.435	.411
25	XIII	.78	.742	.636	.556	.524	.494
26	XIV	.84	.80	.686	.60	.565	.533

#### SERIES 50 AND C-50

Part No.	Schematic Number*	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
51	I	\$0.39	\$0.355	\$0.304	\$0.266	\$0.251	\$0.237
C-51*	II	.72	.675	.579	.506	.476	.45
52	III	.48	.433	.371	.325	.306	.289
52A	III	.48	.433	.371	.325	.306	.289
C-52A*	III	.78	.733	.629	.55	.518	.489
52B	IV	.48	.433	.371	.325	.306	.289
C-52B†	IV	.78	.733	.629	.55	.518	.489
53	V	.57	.517	.443	.388	.365	.344
53A	VI	.57	.517	.443	.388	.365	.344
C-53A*	VI	.93	.825	.707	.619	.582	.55
53B	VII	.57	.517	.443	.388	.365	.344
53C	VIII	.57	.517	.443	.388	.365	.344
53E	IX	.57	.517	.443	.388	.365	.344
54	X	.66	.592	.507	.444	.418	.394
54A	XI	.66	.592	.507	.444	.418	.394
C-54A*	XI	.96	.883	.757	.663	.624	.589
54B	XII	.66	.592	.507	.444	.418	.394
C-54B†	XII	.96	.883	.757	.663	.624	.589
55	XIII	.78	.717	.614	.538	.506	.478
C-55B†	XV	1.11	1.05	.90	.788	.741	.70
56	XIV	.84	.767	.657	.575	.541	.511

\*Mates with 440 Plug. †Mates with 480 Plug.

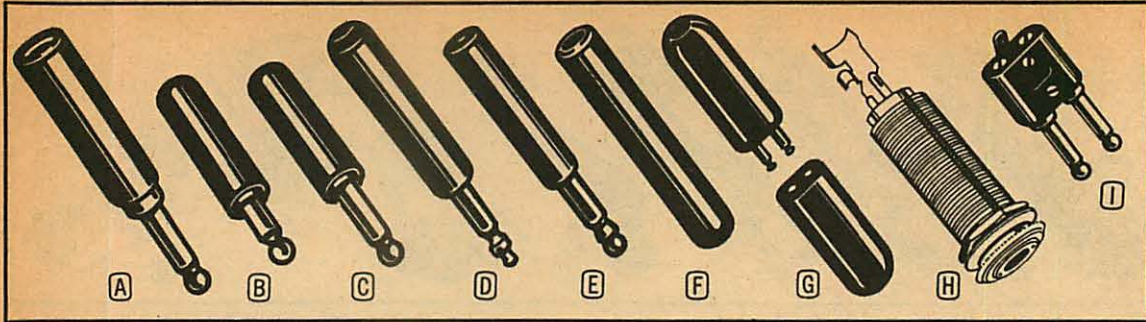
### "LF-JAX" LONG FRAME JACKS

**C** Quality long frame phone jacks with integral ground lug. Fine silver contacts rated 3 amps, 300 watts AC, non-inductive. Mount in single  $\frac{3}{8}$ " dia. hole, panels up to  $\frac{1}{4}$ " thick. Depth behind panel, 2 $\frac{1}{2}$ ". Frame also available with a non-torn device, add prefix "R" to part number, e.g., R31.

Part Number	Schematic Number*	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
31*	I	\$0.45	\$0.417	\$0.357	\$0.313	\$0.294	\$0.278
32*	II	.57	.533	.457	.40	.376	.356
32A*	III	.57	.533	.457	.40	.376	.356
32B†	IV	.57	.533	.457	.40	.376	.356
33*	V	.63	.592	.507	.444	.418	.394
33A*	VI	.63	.592	.507	.444	.418	.394
33B†	VII	.63	.592	.507	.444	.418	.394
33C†	VIII	.63	.592	.507	.444	.418	.394
33E*	IX	.63	.592	.507	.444	.418	.394
34†	X	.72	.683	.586	.513	.482	.456
34A*	XI	.72	.683	.586	.513	.482	.456
34B†	XII	.72	.683	.586	.513	.482	.456
35*	XIII	.87	.833	.714	.625	.588	.556
36†	XIV	1.02	.975	.836	.731	.688	.65

\*2-conductor; mates with 250 Plug. †3-conductor; mates with 267 Plug.

\*REFER TO PREVIOUS PAGE FOR ELECTRICAL SCHEMATICS.



**MILITARY TYPE "LITTEL-PLUGS" AND "EXTENSION JAX"**  
 "Littel-Plugs" are made in accordance with MIL-P-642(A) specifications. One-piece tip rod and one-piece sleeve and plug body provide internal interlock to prevent parts shifting in position. Type 820 "Extension Jax" meets MIL-J-641(A) specifications and mates with "Littel-Plug" Nos. 430, 435, 450, and 455. All handles are plastic except that of No. 470 which is shielded. 2-conductor except 480 Series, 3-conductor. All plugs have screw terminals.

Part No.	Fig.	MIL Type	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
420*	A	PJ-047B	\$0.90	\$0.817	\$0.70	\$0.613	\$0.576	\$0.544
425†	A	PJ-047R	.90	.817	.70	.613	.576	.544
430*	B	PJ-054B	.84	.70	.60	.525	.494	.467
435†	B	PJ-054R	.84	.70	.60	.525	.494	.467
440*	C	PJ-055B	.84	.65	.557	.488	.459	.433
445†	C	PJ-055R	.84	.65	.557	.488	.459	.433
450*	B	PJ-540B	.84	.70	.60	.525	.494	.467
455†	B	PJ-540R	.84	.70	.60	.525	.494	.467
470		PJ-055M	1.20	.917	.786	.688	.647	.611
480*	D	PJ-068	2.16	1.42	1.21	1.06	1.00	.944
482†	E	PJ-051R	2.40	1.58	1.36	1.19	1.12	1.06
483*	E	PJ-051B	2.40	1.58	1.36	1.19	1.12	1.06
484†	E	PJ-309	2.16	1.58	1.36	1.19	1.12	1.06
820*	F	JJ-026	1.20	1.03		.886	.775	.729

\*Black handle. †Red handle.

**Switchcraft Part No. P-1074-1**—Strain Relief Clamp. Nickel-plated brass. Net Per Package of 25..... 51c

### TYPE 410 PLUG AND TYPE 810 JACK

Miniature 2-conductor extension jack and mating plug; often referred to as "Throat Microphone Plug and Jack". Both jack and plug are of two-piece molded construction. Plug has solder-cup terminals; jack has solder lugs. After wiring, shells must be cemented and clamped till dry. Overall size (engaged), 2 1/4" x 1 1/4" x 3/4".

Part No.	Plug or Jack	MIL Type	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
410	Plug	PJ-291	\$0.36	\$0.33	\$0.283	\$0.248	\$0.233	\$0.22
810	Jack	JJ-048	.48	.433	.371	.325	.306	.289

### "THICK PANEL JAX"

Phone jacks with long bushing. Mount in single 1/4" dia. hole in panels up to 1 1/4" thick. Solder lug terminals. Extra shielding virtually eliminates audio hum. Ideal for use with microphones. No. 151, 2-conductor mates with 240, 245, 250, 255, 270 and 280 Plugs. No. 152B, 3-conductor mates with 260, 267, 269 and 297 Plugs. Nickel plated.

Part No.	Description	Net Each, Lots of					
		1-24	25-49	50-99	100-249	250-499	500-999
151	Brass	\$0.81	\$0.70	\$0.60	\$0.525	\$0.494	\$0.467
152B	Brass	.90	.783	.671	.588	.553	.522

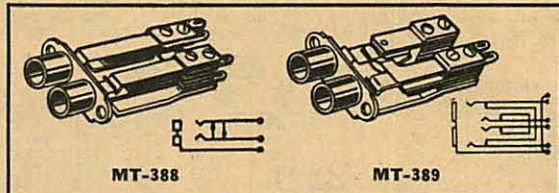
### MILITARY TYPE "TWIN-PLUGS"

Meet exact industrial and military requirements. "Twin-Plug" sleeves spaced 3/8" center to center with self-aligning feature. See table for MIL types.  
**Switchcraft Part No. 411**—Two electrically independent 2-conductor plugs in black plastic handle. Both design and material per MIL-P-642(A). Provision for No. S-2674 Cord Clamp.  
**Switchcraft Part No. 412**—Material used identical to that of No. 411. Two electrically independent 2-conductor plugs in black plastic handle. Has external cord clamp.  
**Switchcraft Part No. 413**—Material used identical to that of No. 411. Three circuit plug with two electrically independent tip circuits in heavy duty die cast frame. Molded black phenolic handle notched to indicate polarity.  
**Switchcraft Part No. 414**—Two electrically independent 3-conductor plugs in black polarized handle. Fingers, 1/4" dia.  
**Switchcraft Part No. 415**—Same as 414 but has one 1/4" dia. and one .206" dia. fingers. For automatic polarization.

Part No.	MIL Type	Replaces W.E. No.	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
411	PJ-327*	327	\$2.85	\$2.58	\$2.21	\$1.94	\$1.82	\$1.72
412	PJ-289	289B	2.70	2.42	2.07	1.81	1.71	1.61
413	PJ-421	241	2.70	2.33	2.00	1.75	1.65	1.56
414	.....	338A	5.40	4.77	4.14	3.60	3.42	3.24
415	.....	.....	6.00	5.30	4.60	4.00	3.80	3.60

\*Old Navy No. 491242.

**Switchcraft Part No. S-2674**—Strain Relief Clamp. Natural brass. For use with Nos. 411, 414, 415. Net Per Package of 10.... 30c



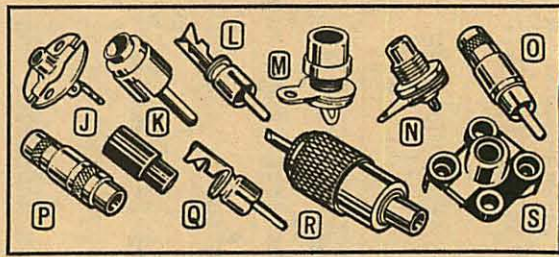
MT-388

MT-389

### "TWIN JAX" DUAL MILITARY JACKS

Similar in design to "MT-Jax" except width of frame is doubled. Two mounting ears on 1 1/2" centers; bushings are on 3/8" centers. MT-388 (MIL-Type No. JJ-088) mates with Nos. 411, 412, 413 "Twin-Plugs" or 420, 425 "Littel-Plugs". MT-389 has two 3-conductor jacks interconnected; mates with No. 482 "Littel-Plug".

Part No.	Net Each, Lots of					
	1-24	25-49	50-99	100-249	250-499	500-999
MT-388	\$3.09	\$2.18	\$1.87	\$1.64	\$1.54	\$1.46
MT-389	3.39	2.65	2.27	1.99	1.87	1.77



### PHONO JACKS AND PLUGS

Low cost 2-cond. jacks and plugs for record players, FM-AM tuners, tape recorders, test equipment, etc. **3501MC** has 3/8" O.D. shell and cable clamp. **3501FP** for front panel mount in 1/4" hole, in panels up to 3/8" thick. **3501FR** for rear panel mount in 3/8" hole, in panels up to 1 1/4" thick. **3502** has unique cable clamp with 3/8" O.D. shielded removable handle. **3503** extension jack has shielded removable handle, 1/2" O.D. with cable clamp. **3508 Series** phono plugs with cable clamp and "snap-on" plastic handle. **3511 Series** "4-Leaf Clover" molded phono jack with dual contact surfaces for minimum shunt resistance and greater reliability. Mates with all Switchcraft phono plugs. Open circuit type. **3512 Series** same as 3511 Series except is closed circuit type.

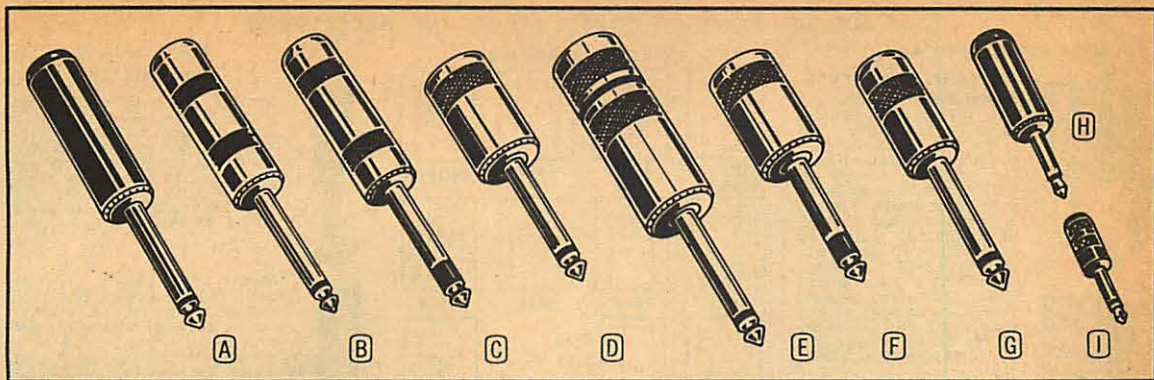
Part No.	Fig.	Description	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
3501F	J	Chassis jack	9c	5c	4.3c	3.8c	3.5c	3.3c
3501M	K	Plug, no clamp	6c	3.3c	2.9c	2.5c	2.4c	2.2c
3501MC	L	Plug, w/clamp	9c	7c	6c	5.3c	4.9c	4.7c
3501F	M	Chassis jack	21c	14.5c	12.4c	10.9c	10.2c	9.7c
3501FR	N	Chassis jack	24c	19c	16.3c	14.3c	13.4c	12.7c
3502	O	Plug/shield	30c	25.8c	22.1c	19.4c	18.2c	17.2c
3503	P	Ext. jack	36c	32.5c	27.9c	24.4c	22.9c	21.7c
3508-1	Q	Plug, red handle	15c	11.7c	10c	8.8c	8.2c	7.8c
3508-2	Q	Plug, blk handle	15c	11.7c	10c	8.8c	8.2c	7.8c
3508-5	Q	Plug, wht handle	15c	11.7c	10c	8.8c	8.2c	7.8c
3511*	S	Open circuit	15c	13.4c	11.4c	10c	9.4c	8.8c
3511A*	S	Open ckt., gnd.	15c	13.4c	11.4c	10c	9.4c	8.8c
3512*	S	Closed circuit	18c	16c	13.7c	12c	11.3c	10.7c
3512A*	S	Closed ckt., gnd	18c	16c	13.7c	12c	11.3c	10.7c

\*Chassis Jack.

### RF JACKS AND RF PLUGS

Standard phono jacks and plugs with nylon insulation. **3505F** mounts front of panel in 3/8" hole, panel up to 1 1/4" thick. **3506** has coaxial connector (Amphenol 83-1SP) one end; **3505E**, other end. **3507** has 1/4" O.D. shielded, screw-on handle with cable clamp.

Part No.	Fig.	Description	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
3504M	K	3/8" O.D. plug	\$0.12	\$0.107	\$0.091	\$0.08	\$0.075	\$0.071
3505F	M	Chassis jack	.36	.30	.257	.225	.212	.20
3506	R	Adapter	1.20	1.12	.957	.838	.788	.744
3507	O	Plug, shld. hdl.	.48	.417	.357	.313	.294	.278



### "LITTEL PLUG" PHONE PLUGS

Small size phone plugs fit standard  $\frac{1}{4}$ " phone jacks except Nos. S-250, S-260, S-280 and S-290 which have a .206" dia. sleeve. Nos. C-240, C-245 and C-270 feature an integral cable clamp with screw terminals. R-280 has short sleeve for Revere Recorders. No. 288 has a wide insulator between tip and sleeve for use in a 3-conductor jack to perform a 2-conductor function without shorting. Plugs with solder terminals have built-in cable clamp. Shielded metal handles are nickel plated brass; others are molded of durable plastic;  $\frac{3}{8}$ " long x  $\frac{1}{2}$ " dia.

### TWO-CONDUCTOR TYPE

Part No.	Fig.	Handle	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
240*	A	Black	\$0.45	\$0.407	\$0.349	\$0.305	\$0.287	\$0.271
C-240*	A	Black	.54	.483	.414	.363	.341	.362
245*	A	Red	.45	.407	.349	.305	.287	.271
C-245*	A	Red	.54	.483	.414	.363	.341	.322
250	A	Black	.42	.383	.329	.288	.271	.256
255	A	Red	.42	.383	.329	.288	.271	.256
270*	B	Shielded	.63	.542	.464	.406	.382	.361
C-270*	B	Shielded	.72	.65	.557	.488	.459	.433
280	B	Shielded	.60	.50	.425	.375	.353	.333
288	C	Shielded	.63	.567	.486	.425	.40	.378
S-250	A	Black	.45	.408	.35	.306	.288	.272
S-280	B	Shielded	.60	.533	.457	.40	.376	.356
R-280	B	Shielded	.75	.575	.443	.431	.406	.383

### THREE-CONDUCTOR TYPE

Part No.	Fig.	Handle	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
260*	A	Black	\$0.72	\$0.658	\$0.564	\$0.494	\$0.465	\$0.439
S-260*	A	Black	.99	.933	.80	.70	.659	.622
267	A	Black	.63	.583	.50	.438	.412	.389
269	A	Red	.63	.583	.50	.438	.412	.389
290*	B	Shielded	.84	.758	.65	.569	.535	.506
S-290*	B	Shielded	1.11	1.05	.90	.788	.741	.70
297	B	Shielded	.78	.733	.629	.55	.518	.489

\*Screw terminals; balance are solder type.

### STANDARD $\frac{1}{4}$ " PHONE PLUGS

Available with phenolic or shielded, nickel plated over brass handle.

### TWO-CONDUCTOR—SCREW TERMINALS

Typical mating jack "Littel-Jax" No. 11. Nos. 49 and 169 feature circuit closing device. Nos. 170 and 475 (MIL-PJ-636) have two-piece handle with built-in clamp for  $\frac{1}{4}$ " cable. No. 180 has wide insulator between tip and sleeve for use in a 3-conductor jack to perform a 2-conductor function without shorting.

Part No.	Fig.	Handle	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
40*	A	Black	\$0.45	\$0.407	\$0.349	\$0.305	\$0.287	\$0.271
45*	A	Red	.45	.407	.349	.305	.287	.271
49†	A	Black	.90	.825	.707	.619	.582	.55
70†	B	Shielded	.72	.675	.575	.506	.476	.45
160†	D	Shielded	.54	.483	.414	.363	.341	.322
169†	D	Shielded	1.05	.967	.829	.725	.682	.644
170†	E	Shielded	.99	.933	.80	.70	.659	.622
180†	F	Shielded	.63	.558	.479	.419	.394	.372
475†	E	Shielded	1.17	1.07	.914	.80	.753	.711

### THREE-CONDUCTOR—SOLDER TERMINALS

Typical mating jack "Littel-Jax" No. 12B. No. 190A has two-piece handle with built-in cable clamp for  $\frac{1}{4}$ " cable.

Part No.	Fig.	Handle	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
60†	A	Black	\$0.63	\$0.558	\$0.479	\$0.419	\$0.394	\$0.372
90†	D	Shielded	.78	.717	.614	.538	.506	.478
190†	B	Shielded	.90	.817	.70	.613	.576	.544
190A†	E	Shielded	1.17	1.08	.929	.813	.765	.722

Size (Lgth. x Dia.): \*2 $\frac{1}{16}$ " x  $\frac{3}{16}$ "; †2 $\frac{1}{16}$ " x  $\frac{1}{16}$ "; †1" x  $\frac{1}{16}$ "; †1" x  $\frac{3}{16}$ "; †1 $\frac{1}{8}$ " x  $\frac{3}{16}$ ".

### "MICRO-PLUGS" ULTRA-MINIATURE PHONE PLUGS

Ultra-miniature 2-conductor phone plugs, only  $\frac{1}{4}$ " long;  $\frac{1}{4}$ " O.D., .097" dia. sleeve. Mate with No. TR-2A. Have screw-on handles in black, red or natural anodized aluminum; accommodate cables up to  $\frac{1}{4}$ " dia. All plugs have integral cable clamps.

Part No.	Fig.	Handle	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
850	I	Black	\$0.45	\$0.383	\$0.329	\$0.288	\$0.271	\$0.256
855	I	Red	.45	.383	.329	.288	.271	.256
880	I	Natural	.45	.383	.329	.288	.271	.256

### "LUG-PLUG" PHONE PLUGS

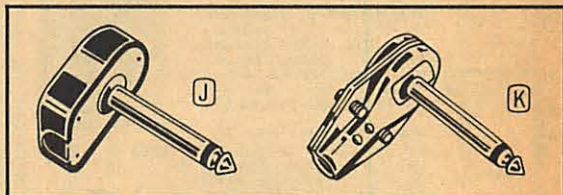
Low cost, 2-conductor phone plugs fit all  $\frac{1}{4}$ " phone jacks. No. 385 Plug has a .206" dia. sleeve and mates with S-11 "Littel-Jax". Solder lug terminals. Shielded metal or phenolic handle. Size (Lgth. x Dia.): Series 350, 1 $\frac{1}{8}$ " x  $\frac{1}{2}$ "; Series 380, 1" x  $\frac{1}{2}$ ".

Part No.	Fig.	Handle	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
350	A	Black	\$0.33	\$0.297	\$0.254	\$0.223	\$0.209	\$0.198
355	A	Red	.33	.297	.254	.223	.209	.198
380	G	Shielded	.42	.367	.314	.275	.259	.244
385	G	Shielded	.60	.45	.386	.338	.318	.30

### "TINI-PLUGS" SUBMINIATURE PHONE PLUGS

Miniature 2-conductor phone plugs for use with "Tini-Jax"; only  $\frac{1}{4}$ " the size of standard phone plugs. Handle 1 $\frac{1}{8}$ " overall length; plastic or brass, nickel plated. Terminals: Screw, Series 740, 770; Solder, Series 750, 780.

Part No.	Fig.	Handle	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
740	H	Black	\$0.45	\$0.407	\$0.349	\$0.305	\$0.287	\$0.271
745	H	Red	.45	.407	.349	.305	.287	.271
750	H	Black	.42	.383	.329	.288	.271	.256
755	H	Red	.42	.383	.329	.288	.271	.256
770	H	Shielded	.63	.55	.471	.413	.388	.367
780	H	Shielded	.60	.50	.429	.375	.353	.333



### "FLAT PLUGS" FLAT PHONE PLUGS

These  $\frac{1}{4}$ " phone plugs feature flat, space-saving handles. Ideal for applications where conventional plugs would protrude too far. Nos. 220, 225 have adapter clips which make them convenient to clamp standard phone tips to terminals. Shielded flat plugs, Nos. 228 and 238 have nickel plated steel handles; all others have red or black plastic handles. Nos. S-230 and S-235 have .206" dia. sleeve.

### TWO-CONDUCTOR TYPE

Part No.	Fig.	Handle	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
220*	J	Black	\$0.54	\$0.483	\$0.414	\$0.363	\$0.341	\$0.322
225*	J	Red	.54	.483	.414	.363	.341	.322
227†	J	Black	.51	.433	.371	.325	.306	.289
228†	K	Shielded	.57	.517	.443	.388	.365	.344
229†	J	Red	.51	.433	.371	.325	.306	.289

### THREE-CONDUCTOR TYPE

Part No.	Fig.	Handle	Net Each, Lots of					
			1-24	25-49	50-99	100-249	250-499	500-999
230*	J	Black	\$0.78	\$0.717	\$0.614	\$0.538	\$0.506	\$0.478
S-230*	J	Black	1.05	.967	.829	.725	.682	.644
235*	J	Red	.78	.717	.614	.538	.506	.478
S-235*	J	Red	1.05	.967	.829	.725	.682	.644
237†	J	Black	.75	.683	.586	.513	.482	.456
238†	K	Shielded	.84	.767	.657	.575	.541	.511
239†	J	Red	.75	.683	.586	.513	.482	.456

Terminals: \*Screw; †Solder.