

























































































































































































# JACKS & PLUGS

82

## Jack Series Dimension Drawings MT 1/4" Jack Series

MT334B, WMT334B, YMT334BN



# Switel

# JACKS & PLUGS

Plug Series **83**

## Littel 1/4", Right Angle 1/4", Silent, Super Heavy Duty Plug Series

Switchcraft Littel Plugs all feature one-piece tip rods for added strength and durability. All are offered in a wide variety of configurations, including straight, right angle, shielded, screw or solder terminals. The Heavy Duty Speaker plugs have larger cable clamps and are rated at 15A. The Silent plugs have a unique circuit-closing device which stops hums, pops, and squeals when the plug is removed or inserted from the jack. Miti plugs feature heavy duty brass construction, rugged cable clamps, and spring flex reliefs. All plugs meet EIA standards for tip configuration, which ensures you they mate properly with the jack.



### Specifications

#### Electrical

- Contact Resistance (typical Depends on Mating Jack):  
< 0.020 ohms
- Dielectric Withstand Voltage: 500 VAC (minimum)
- Insulation Resistance @ 500 VDC: 2,000 megohms (minimum)
- Insulation Resistance (after Mil-Std-202 Salt Spray): 1,000 megohms (minimum)
- Working Voltage: 250 VAC, 140 VDC
- Insert/Withdrawal Force:  
Depends on Mating Jack
- Soldering Requirement:  
ANSI/J-Std-001
- Temperature Range: -40°C to +85°C
- U.L. Component Recognition File No: E118169
- Life: Depends on Mating Jack

#### Materials

- Tip: Nickel-plated copper alloy
- Sleeve: Nickel-plated copper alloy
- Handle: Nickel-plated copper alloy
- Tip Terminal: Copper alloy, electrotin-plated
- Cable Clamp: Copper alloy, electro-tinplated

See Next Page for Ordering Information

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

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# JACKS & PLUGS

## 84 Plug Series

### Ordering Information

Part No.	Typical Conductors	Terminals	Mating Jack	Handle	Notes
<b>1/4" Littel Plug Series</b>					
240	2	Screw	11	Black	
245	2	Screw	11	Red	
250	2	Solder	11	Black	
260	2	Screw	11	Black	
270	2	Screw	11	Black	
280	2	Solder	11	Shielded	
281	2	Solder	11	Shielded	Unassembled
580	2	Solder	11	Shielded	Diecast handle
285	2	Solder	11	Shielded	Unassembled
285L	2	Solder	11	Shielded	Larger cable clamp
267	3	Solder	12B	Black	
290	3	Screw	12B	Shielded	
297	3	Solder	12B	Shielded	
299	3	Solder	12B	Shielded	Diecast handle
<b>Heavy Duty Speaker Plugs</b>					
184	2	Solder	11 or Z15J	Shielded	Accepts Cable OD up to .375"
188	2	Solder	11 or Z15J	Shielded	Accepts Cable OD up to .450"
187	2	Solder	11 or Z15J	Shielded	Accepts Cable OD up to .330"
187B	2	Solder	11 or Z15J	Shielded	Black Handle, accepts Cable OD up to .330"
<b>Right Angle 1/4" Plugs</b>					
226	2	Solder	11	Shielded	
228	2	Solder	11	Shielded	Flat handle
236	3	Solder	12B	Shielded	
238	3	Solder	12B		Flat handle
<b>Silent Plug</b>					
172	2	Screw	11	Shielded	
181	2	Solder	11	Shielded	
<b>Miti Plugs</b>					
174S	2	Solder	11 or Z15J	Shielded	Brass finish, spring flex relief

See Pages 88-89 for Mechanical Drawings

# Switel

# JACKS & PLUGS

## Plug Series

85

### Tini, Micro, 3.5mm Stereo, Right Angle 3.5mm Stereo, Phono, Right Angle Phono Plugs Series

Switchcraft offers a wide variety of Tini, Micro, 3.5mm, and RCA or Phono plugs. Tini plugs are 2 conductor plugs with plug finger diameters of .141" or 3.57mm. Micro plugs are 2 conductor plugs with plug finger diameters of .097" or 2.47mm. Our 35HD Series are true 3.5mm plugs, available in both straight and right angle versions; and available only in 3 conductor. The RCA or Phono plugs come with either hollow pins or solid pins. The 3502 offers hollow pins and standard size handle, the 3502L offers the same pin, but with a larger handle, accommodating cables up to .290". The 3502A and 3502RA Series offer solid pins and the larger cable clamps and handles. The 3558 Series offers a low cost alternative, with hollow pins and plastic handles.



#### Specifications

##### Mechanical

Life rating: 5,000 insertion/  
withdrawals  
Insertion/Withdrawal Force: 1 lb  
(depending on mating jack)

##### Electrical

Insulation Resistance:  
> 100 megohms  
Dielectric Withstanding Voltage:  
250 VAC

##### Environmental

Thermal Range: -55°C to +85°C  
(non operating); -20°C to 65°C  
(operating)  
Thermal Shock: Mil-Std 202,  
method 107  
Humidity: Mil-Std 202,  
method 106  
Salt Spray: Mil-Std 202,  
method 101  
(continued on next page)



# JACKS & PLUGS

## 86 Plug Series

### Materials

Tip, Rod and Body (also integral coupling collar on lock micro-plug):  
Nickel-plated copper alloy  
Insulation: Molded thermoplastic  
Sleeve Termination and Cable Clamp: Tinned copper alloy

Handle: Nickel-plated copper alloy, or anodized aluminum, or thermoplastic. See factory for details.

### Ordering Information

Part No.	Conductors	Terminals	Typical Mating Jack	Handle	Notes
<b>Tini-Plug (.141")</b>					
740	2	Screw	41	Black	
750	2	Solder	41	Black	
755	2	Solder	41	Red	
780	2	Solder	41	Shielded	
<b>Micro-Plugs (.097")</b>					
850	2	Solder	TR2A	Black	
855	2	Solder	TR2A	Red	
851	2	Solder	TR2A	Black	Locking version
880	2	Solder	TR2A	Shielded	
881	2	Solder	TR2A	Shielded	Locking version
<b>3.5mm Stereo Plugs</b>					
35HDNN	3	Solder		Shielded	
35HDBAU	3	Solder		Black Shielded	Gold-plated finger
35HDNAU	3	Solder		Shielded	Gold-plated finger
<b>3.5mm Right Angle Stereo Plugs</b>					
35HDRANN	3	Solder		Shielded	
35HDRABAU	3	Solder		Black Shielded	Gold-plated finger
35HDRAAU	3	Solder		Shielded	Gold-plated finger
<b>Phono Plugs</b>					
3502	2	Solder	3501FP	Shielded	Hollow Pin
3502A	2	Solder	3501FP	Shielded	Large cable clamp, solid pin
3502AAU	2	Solder	3501FP	Shielded	Gold-plated finger
3502ABAU	2	Solder	3501FP	Black shielded	Gold-plated finger
3502L	2	Solder	3501FP	Shielded	Hollow pin, large cable clamp
35581	2	Solder	3501FP	Red	Plastic handle
35582	3	Solder	3501FP	Black	Plastic handle
35585	3	Solder	3501FP	White	Plastic handle
<b>Right Angle Phono Plugs</b>					
3502RA	2	Solder	3501FP	Shielded	
3502RABAU	2	Solder	3501FP	Black Shielded	Gold-plated finger
3502RAAU	2	Solder	3501FP	Shielded	Gold-plated finger

See Pages 90-92 for Mechanical Drawings

# Switel

# JACKS & PLUGS

## Plug Series

87

### TT or Bantam, Mil-Style 1/4" Plugs Series

Switchcraft leads the industry when developing innovative TT and MT Style plugs. Our "N" version plugs offer nickel-plated plug fingers to reduce tarnishing and corrosion. Our "NC" version plugs not only offer nickel-plated plug fingers, but also large, easy to use solder cups and terminals, plus easy to use cable clamps that really secure your cable to the plugs.

#### Specifications

#### Materials

Tip Rod, Body and Screws:  
Copper alloy, natural finish  
Terminals (NC Version): Tinned copper alloy  
Insulation: Thermoplastic, per Mil-P-22985, Type II, Class 1  
Handles: Thermoplastic, Type 6, per Mil-M-20693, Type II  
Shielded (NC Version): Machined from copper alloy, nickel-plated



See Page 93 for Mechanical Drawings

#### Ordering Information

Part No.	Conductors	Terminals	Handle	Notes
<b>TT or Bantam Plugs</b>				
TT253	3	Screw	Black	
TT253N	3	Screw	Black	Nickel-plated finger
TT253NC	3	Solder	Black	Nickel-plated finger
TT254	3	Screw	Red	
TT254N	3	Screw	Red	Nickel-plated finger
TT254NC	3	Solder	Red	Nickel-plated finger
<b>Mil-Style 1/4 Plugs</b>				
480	3	Screw	Black	0.206" OD
482	3	Screw	Red	
482N	3	Screw	Red	Nickel-plated finger
482NC	3	Solder	Red Shielded	Nickel-plated finger
482NCP	3	Solder	Red	Nickel-plated finger
483	3	Screw	Black	
483N	3	Screw	Black	Nickel-plated finger
483NC	3	Screw	Black Shielded	Nickel-plated finger
483NCP	3	Solder	Black	Nickel-plated finger
484	3	Screw	Red	0.206" OD
485NC	3	Solder	Shielded	Nickel-plated finger



# JACKS & PLUGS

88

## Plug Series Dimension Drawings Littel Plug 1/4" Series

260



No. 260 typical — shown with screw-type terminals and plastic handle.

280 Typical



No. 280 typical — shown with solder lug terminals, cord clamp and shielded handle.

188



187BL



No. 187BL (Typical)

# Switchcraft

# JACKS & PLUGS

## Plug Series Dimension Drawings Littel Right Angle 1/4", Silent, Super Heavy Duty Plug Series

### 228 Right Angle 1/4" Plugs



### 236 Right Angle 1/4" Plugs



### 172



### 181 Silent Plug



### 174S Super Heavy Duty Plug



DIMENSIONS ARE FOR REFERENCE ONLY  
Inch (mm)

# JACKS & PLUGS

90

## Plug Series Drawings Tini, Micro Plug Series

### 740, 750 Tini-Plugs



740 Screw Terminals Series



750 Clamp-Lug Terminals

### 850, 851 Micro Plugs



850 (typical) Series



851 (typical) Series

# Switel

# JACKS & PLUGS

## Plug Series Drawings 35HD 3.5mm Stereo Plug Series

### 35HDNN, 35HDBAU, 35HDNAU



### 35HDRANN, 35HDRABAU, 35HDRAAU



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

# JACKS & PLUGS

92

## Plug Series Drawings Phono and Phone Right Angle Plug Series

### 3502, 3502A, 35581 Phono Plug



3502 Series



35581 Series



3502A Series

### 3502RA Plug



# JACKS & PLUGS

## Plug Series Drawings TT or Bantam, Mil-Style 1/4" Plug Series

### TT253, TT253NC Plug



TT253 Series



TT253NC Series

### 480, 482, 482NC, 484 Mil-Style 1/4" Plug



480 Series



482NC Series



482 Series



484 Series

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

# SWITCHES

## 94 Switch Series Guitar and Knobs, and Broadcast Switch Series

The 12000 Series switches are premium grade switches used primarily in guitars as pick-up switches. The largest names in the industry rely on our switches for quality and durability. Our 84000 Series and PL Series switches are used in broadcast studios, theater lighting, anywhere large illuminated switches are needed.

### Specifications - 12000 Series

#### Electrical

- Contact Ratings: Fine silver contacts rated at 3A, 300W maximum AC non-inductive load standard. Other contacts available
- Leakage Resistance: 1,000 MW or greater
- Dielectric Strength: 250 VDC

#### Materials

- Frame: Copper alloy, plated (3,000, 13,000); Steel, plated (12,000)
- Bushing and Shaft: Copper alloy, plated
- Springs: Copper alloy
- Knob: Black molded thermoplastic
- Mounting Hardware: Knurled copper alloy locknut T10711, supplied. P10531 hex locknut, special order
- Insulation: Rigid plastic spacers with plastic tubing through stack. Rigid plastic and/or thermoplastic lifters. Thermoplastic cam on actuator end



**Note: Knobs must be ordered separately.**

### Specifications - 8400 Series

#### Electrical

- Temperature Range: -22°F to 158°F (-30°C to +70°C)
- Dielectric Strength: 1 kV DC
- Leakage Resistance: 1,000 MW or greater

#### Materials

- Mounting/Retaining Clips and Covers: Steel, plated
- Contact Ratings: Gold crossbar rated at 1A, 200W Maximum AC non-inductive loads (continued on next page)



# Switel

(continued from previous page)

Springs: Copper alloy, plated  
Lamp Terminals: Copper alloy, plated  
Lamp Socket: Zinc, plated  
Terminals: Copper alloy, plated,  
straight solder lugs  
Housing, Escutcheon, Knob,  
Actuator and Switching Stacks  
Insulation: Molded plastic

### Specifications - PL Series

PUSH-LITE Switches Series and  
PL Indicators

#### Contacts

Welded crossbar Gold Alloy,  
rated at 2 amps., 200 watts  
max., AC non-inductive load.

#### Electrical

6,000 Minimum Life (Gold  
Alloy Contacts) per UL 1054.

#### Materials

Push-Lite Switch Assemblies:  
Housing, Lifters, Switch Modules,  
Barriers and Pushbuttons:  
Molded Plastics  
Contacts Springs: Phosphor  
Bronze, Silver Plated  
Lamp Terminals: Brass, Silver plated  
Lamp Socket, Light Divider and  
Yoke Assembly: Nickel Silver  
Mounting Bracket and Retaining  
Clips: Steel with iridescent  
iridite over Cadmium Plating

Series PL Pushbuttons:

Housing, Color Filter Inserts and  
Display Screens: High impact  
thermoplastic

PL Indicators:

Housing: Molded glass filled  
Plastics  
Mounting Bracket: Steel, irides-  
cent over cadmium Plating.  
Lamp Retainer and Terminals:  
Nickel Silver.  
Display Screen (Pushbutton):  
Molded Plastics.

### Ordering Information

Part Number	Circuitry	Description
<b>Guitar Switches</b>		
12010	SPST(NC)/SPST(NC)	Straight, nickel finish, riveted silver contacts
12011	SPST(NC)/SPST(NC)	Straight, bright brass finish, riveted silver contacts
12012	SPDT(non-shorting)/SPST(NC)	Right angle, nickel finish, welded silver contacts
12013	SPST(NC)/SPST(NC)	Right angle, nickel finish, welded silver contacts
12014	SPST(NC)/SPST(NC)	Right angle, black finish, welded silver contacts
12015	DPDT(NC)/DPDT(NC)	Right angle, nickel finish, welded silver contacts
12016	SPST(NC)/SPST(NC)	Right angle, bright brass finish, riveted silver contacts
12017	SPST(NC)/SPST(NC)	Right angle, nickel finish, welded gold contacts
<b>Knobs</b>		
T12742		Black
T12745		White
T127410		Ivory
P2912		Amber
<b>Broadcast Switches</b>		
84206L	DPDT	2 Position, locking
84306L	SPDT(non-shorting) both sides	3 Position, locking
84312L	DPDT both sides	3 Position, locking
84324L	DPDT both sides	3 Position, locking
K131		Filter kit, 3 of ea. (amb, blu, grn, red, wht, and yel)
PL106205	DPDT	Momentary, single lamp
PL206205	DPDT	Momentary, twin lamp
PL106705	DPDT	Push-lock/Push-release, single lamp
PL206705	DPDT	Push-lock/Push-release, twin lamp

### See Next Page for Mechanical Drawings



# SWITCHES

## 96 Switch Series Drawings Guitar and Knobs, and Broadcast Switch Series

### 12000 Series RA Lev-R® Switches



### 84000 Series Lever-Lite® Switches



### 12000 Series Straight Lev-R® Switches



### PL Series Push-Lite® Switches



# Switches

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TA*FL	49	TTP96ASNN	28	VPP26K1HD*NT	34
TA*M	49	TTP96K1FN	22	VPP26K1SD*75T	34
TA*MB	49	TTP96K1HN	22	VPP26K1SD*NT	34
TA*ML	49	TTP96K1NN	22	VPP26K3HD*75T	34
TA01	63	TTP96K3BPNS	18	VPP26K3HD*NT	34
TA02	63	TTP96K3FN	22	VPP26K3SD*75T	34
TA04	63	TTP96K3HNN	22	VPP26K3SD*NT	34
TA05	63	TTP96K3NN	22	VSPP	44
TB*M	49	TTP96K5BPNS	18	WMT334B	70
TB*MB	49	TTPFA96K1NO	8	WTT34B	70
TT1	45	TTPFA96K1NS	8	YMT334BN	70
TT10	45	TTPH96K1NO	5	Z15J	66
TT122	45	TTPH96K1NS	5		
TT124	45	TTPH96K3NO	5		
TT126	45	TTPH96K3NS	5		
TT127	45	TTPW96K1HN	16		
TT128	45	TTPW96K1NN	16		
TT2	45	TTPW96K1NS	16		
TT253	87	TTPW96K3HNN	16		
TT253N	87	TTPW96K3NN	16		
TT253NC	87	TTPW96K3NS	16		
TT254	87	TY*F	49		
TT254N	87	VAPK1HD*75T	40		
TT254NC	87	VAPK1HD*NT	40		
TT3	45	VAPK1SD*75T	40		
TT34B	70	VAPK1SD*NT	40		
TT34BN	81	VAPK3HD*75T	40		
TT34BNY	70	VAPK3HD*NT	40		
TT4	45	VAPK3SD*75T	40		
TT5	45	VAPK3SD*NT	40		
TT6	45	VJHD*75TX	36		
TT7	45	VJHD*NTX	36		
TT8	45	VJSD*75TX	36		
TT9	45	VJSD*NTX	36		
TT96EDACNO	20	VMAFN	40		
TT96EDACNS	20	VMPP	44		
TTD1	45	VMVHD*75T	40		
TTD10	45	VMVHD*NT	40		
TTD2	45	VMVSD*75T	40		
TTD3	45	VMVSD*NT	40		
TTD4	45	VPP24K1HD*75T	34		
TTD5	45	VPP24K1HD*NT	34		
TTD6	45	VPP24K1SD*75T	34		
TTD7	45	VPP24K1SD*NT	34		

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