

Mode Electronics Ltd. head office and warehouse is located in Burnaby, B.C., Canada. Our products are sold exclusively through Electronic Distributors across Canada and the USA. Please check our web site at [www.mode-elec.com](http://www.mode-elec.com) for the Distributor in your area. These Distributors stock many of the products in this catalog and will provide professional and friendly service.

This catalog contains information on the products that are stocked in quantity in our warehouse. The catalog is arranged in order by product type. Please use the "Quick Index" below for the major product categories. Full index is at the end of the catalog.



## MODE ELECTRONICS LTD.

211 - 2999 UNDERHILL AVE.,  
BURNABY, B.C., CANADA, V5A 3C2

Phone: 604-435-6633  
 Fax: 604-435-8890  
 Toll Free: 1-800-663-4992  
 Web Site: [www.mode-elec.com](http://www.mode-elec.com)

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### **MODE PART NUMBERING SYSTEM**

**Most items in this catalog are available in bulk as well as display packaged and the appropriate numbers are prominently shown throughout the catalog. Our display packages are designed for hanging on pegboard type store displays. The packaged product is slightly more costly than bulk product due to the extra packaging costs. Bulk product numbers always end in a -0. Packaged items usually indicate the the quantity per package, after the last dash.**

**For example: 21-059-0 is bulk product  
21-059-10 is a display package containing 10 pieces**

**The packaged product is intended for small quantity sales and walk-in traffic. Please specify bulk product numbers for larger quantity orders.**

**Mode part numbers are organized by type of product. The part number prefixes specify the product type. For example: Part numbers starting with 13 (13-XXX-X) are Category 5 Modular Telephone products, part numbers that start with 24 are Audio plugs and jacks, etc.**

**This catalog is organized in ascending numerical order from 12 series up. This arrangement keeps all similar parts together in the catalog and makes it easier to find parts in the catalog.**

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### **Important information about RoHS compliance.**

RoHS EU directive 2002/95/EC concerns the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The RoHS (restriction of hazardous substances) of the 27th January 2003 bans the use of certain substances in new electrical and electronic equipment put on the market from 1st July 2006 (there are exceptions for certain applications). The banned substances are lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE).

Mode Electronics Ltd. will make every effort to obtain compliance information on every component we carry. Many of our products have never contained any of these restricted substances so are therefore compliant by default.

As we determine the compliance or non-compliance of our products we will post this information on the Mode web site ([www.mode-elec.com](http://www.mode-elec.com)).

In cases where an item is not compliant at the present time we will attempt to source product that is compliant. In many cases we will continue to offer the non-compliant product, as cost may be an important factor. Where we offer both compliant and non-compliant products we will differentiate these items with a unique part number for the compliant part (we will add the letters EU to the part number).

Although we agree in principal with the intent of the EU directive we also feel that some clarification of the directive will be necessary to make it feasible. For this reason there are a number of proposed exemptions being considered at this time.

It must be understood that, in some areas, there will be a greater cost incurred to ensure that none of these restricted materials are present in a product. A typical example of this problem is where a manufacturer uses recycled plastics (considered environmentally responsible) to manufacture their products. It would be very difficult as well as prohibitively expensive to test each batch of recycled material for the presence of minute quantities of the restricted substances. In cases such as this the only reasonable solution would be to use virgin plastic at much higher costs.

We will continue our efforts to obtain and make available through the web site information regarding the compliance of Mode products.

**MODULAR TELEPHONE CORDS**



Modular Cables with 6P/4C plugs on both ends (Ivory)

**12-183A-0** 6P/4C 7' Length  
Use -1 for Display Package

**MODULAR 'T' ADAPTER**



Modular 'T' adapter joins two cables to one jack.

**12-210-0** 6P/4C  
**12-213-0** 6P/6C  
**12-214-0** 8P/8C  
Use -1 for Display Package

**MODULAR JOINER**



Jack to jack joiner for connecting two cables.

**12-202-0** 6P/4C  
Use -1 for Display Package

**SURFACE MOUNT WALL JACK (SINGLE)**



Surface mount wall jack with adhesive back for easy mounting. Screw terminals for connections. Available in Ivory or White.

**12-221-0** Ivory 6P/4C  
**12-221W-0** White 6P/4C  
**12-225W-0** White 8P/8C  
Use -1 for Display Package

**DATA JOINERS**



**12-203D-0** 6P/6C  
**12-204D-0** 8P/8C  
Use -1 for Display Package

**Data** joiners are connected from pin 1:1, 2:2, etc. Standard telephone joiners are cross connected - for example a 6P/6C is connected 1:6, 2:5, 3:4, 4:3, 5:2, 6:1.

**MODULAR TELEPHONE DESIGNATIONS**

The designation 6P/4C, 6P/6C, etc. refers to the number of contacts / number of wires used. The other common designations are:

4P/4C		for telephone handsets
6P/4C	RJ-11	Standard 4-conductor
6P/6C	RJ-12	Standard 6-conductor
8P/8C	RJ-45	Standard 8-conductor

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**DOUBLE OUTLET FLUSH MOUNT WALL PLATE**



Double wall plates. Fits standard electrical box.

**12-236-0** Ivory 8P/8C  
Use -1 for Display Package

**MODULAR TELEPHONE PLUGS**

Modular telephone plugs with 15µ" gold plated contacts.



**12-253-0** 4P/4C  
**12-254-0** 6P/4C  
**12-256-0** 6P/6C  
**12-258-0** 8P/8C  
Use -10 for Display Package  
Use -50 for 50 Packs

**MODULAR TELEPHONE PLUGS (for round cable)**

Modular telephone plugs for round jacket cable with 15µ" gold plated contacts. **R** types are for stranded wire, **S** type is for solid wire and **U** type is for both stranded and solid wire.



**12-254S-0** 6P/4C  
**12-254U-0** 6P/4C  
**12-256R-0** 6P/6C  
**12-256S-0** 6P/6C  
**12-256U-0** 6P/6C  
**12-258R-0** 8P/8C  
**12-258S-0** 8P/8C  
**12-258U-0** 8P/8C  
Use -10 for Display Package  
Use -50 for 50 Packs

**12-254R-0** 6P/4C

**DELUXE MODULAR CRIMP TOOL**



Deluxe crimp tool cuts, strips and crimps modular plugs.

**12-306-1** 6P/4C & 6P/6C **12-308-1** 8P/8C

**DELUXE MODULAR CRIMP TOOL**



- 8P/8C (RJ45) precision crimper.
- Cuts and strips both flat and round modular cable.
- Extremely comfortable cushioned handles.
- Ratchet action with easy release.

**12-309-1**

**MODULAR CRIMP TOOL**



This versatile tool will crimp 4, 6 and 8 pin modular plugs. It also has a wire cutter and stripper built-in. Simple to use, extremely durable.

**12-310A-1**

**MODULAR TELEPHONE CABLE**



28AWG stranded modular telephone cable.  
Jacket color: silver

**12-403-0 SILVER** 4-conductor 1000'  
**12-603-0 SILVER** 6-conductor 1000'  
**12-805-0 SILVER** 8-conductor 1000'  
100' not on spools

**PC MOUNT MODULAR JACKS**

Printed circuit mount modular jacks. 6µ" gold plating.

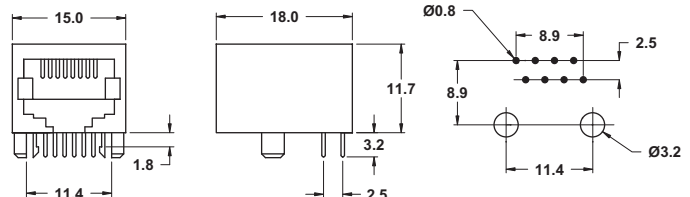
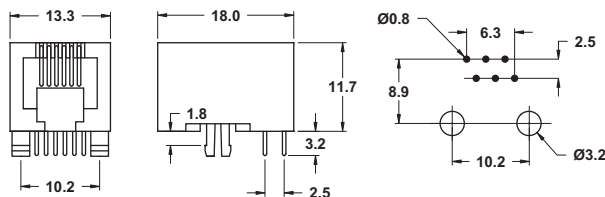


**12-264-0**



**12-264-0** 6P/4C  
**12-288-0** 8P/8C

**12-288-0**



The items shown in this catalog are normal stock items at Mode, but we can also source many additional products from reliable sources. If you have a requirement for a product not shown in this catalog, please contact us or your local distributor for price and delivery.



## CATEGORY 5 PLUGS (8P/8C)

For round jacket/solid conductor cable.



**13-101-0** \* 30μ" Gold  
**13-102-0** \* 50μ" Gold  
 Use -5 for Display Package  
 \* Use -50 for 50 Packs

## DOUBLE SURFACE MOUNT BOX



Double outlet surface mount box for 13-111-0 or 13-112-0 series jacks.



**13-122-0** White  
 Use -1 for Display Package

## CATEGORY 5e KEYSTONE JACK



This jack requires no tooling. A color coded lift-up lid is used to place and insert the wires.



**13-111E-0** 5e white color  
 Use -1 for Display Package

## FLUSH MOUNT WALL PLATES



White flush mount wall plates for 13-111-0 or 13-112-0 series jacks.

**13-131-0** for 1 jack - White  
**13-132-0** for 2 jacks - White  
**13-134-0** for 4 jacks - White  
 Use -1 for Display Package



## TV/PHONE PLATE

**13-135WH-0** White  
 Use -1 for Display Package

## INSERTS FOR SURFACE MOUNT PLATES



Blank Insert-White

**13-140-0** Bulk  
**13-140-2** Pkg (2)

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**PATCH CORDS**



Category 5e patch cord.

**13-162BL-0** 7' Long Blue

**COLOR CODED CABLE BOOTS**



- 13-190BK-0** Black
- 13-190BL-0** Blue
- 13-190GR-0** Green
- 13-190GY-0** Grey
- 13-190RD-0** Red
- 13-190YL-0** Yellow

Use -4 for Display Package

**CATEGORY 5 TOOLING**



**13-180-0** Bulk **13-180-1** Pkg.  
Adjustable impact punch tool - using one of the inserts (below) this tool will insert and trim wires for the 13-112-0 & 13-113-0 keystone jacks.

**13-186-1** Pkg.  
Adjustable impact punch tool c/w 13-183-0 insert.  
Attractive display Package.



**13-181-0** Bulk **13-181-1** Pkg.  
Non-impact punch tool - using one of the inserts (below) this tool will insert and trim wires for the 13-112-0 & 13-113-0 keystone jacks.

**13-187-1** Pkg.  
Non-impact punch tool c/w 13-183-0 insert. Attractive display package.

**INSERTS FOR 13-180-0 AND 13-181-0 PUNCH TOOL**



**13-182-0**  
For 66 type terminals- reversible punch or punch & cut



**13-183-0**  
For 110 type terminals-reversible punch or punch & cut

Use -1 for Display Package

Since modern twisted pair cabling must be expected to carry high signal rates, it is necessary to avoid stressing the wire. Tight 90-degree bends are not permissible, and any tie-wraps or other securing straps must not be cinched excessively tight. Care should be taken to avoid routing cables within 18 inches of electrical noise generating devices such as transformers and lighting ballasts. Please see our selection of hook and loop cable ties which are suitable for securing bundles of Cat 5 or Cat 5E cables.

**CABLE STRIP TOOL**



**13-185-0**  
Universal stripping tool for round or flat Cat 5 cable.  
Use -1 for Display Package

**ECONOMY PUNCH-DOWN TOOL AND CABLE STRIPPER**



**13-189-0**  
For stripping wire diameter 5-6.2mm. Top end for 110/88 type insertion use.  
Use -1 for Display Package

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The Category 5 products shown on pages 5 and 6 are stocked items. We have access to many additional items such as patch panels, different styles of outlet boxes, etc. If you have a requirement for an item or items not shown on these pages, please contact us or your local Mode Distributor for price and delivery information.

## MATCHING TRANSFORMER

Broadband (5-900Mhz) antenna matching transformer.  
75-300Ω.



**16-109-0** Bulk  
**16-109-1** Package

## COAXIAL SPLITTERS

5-900 Mhz bandwidth 75Ω splitters. DC power passing, epoxy sealed back cover, anti-corrosion plating, zinc alloy diecast case with ground screw.



**16-113-0** 3-way Bulk  
**16-114-0** 4-way Bulk  
*Use -1 for Display Package*

## CATV WALL PLATE



Wall plates with double female F connector. Fits standard electrical outlet box, complete with screws.

**16-170W-0** Bulk White  
**16-170W-1** Pkg White

## BLANK CATV WALL PLATE



Blank white wall plate. Fits standard electrical outlet box, complete with screws.

**16-171W-0** Bulk  
**16-171W-1** Package

## DUPLEX CATV WALL PLATE



Duplex white wall plate. Fits standard electrical outlet box, complete with screws.

**16-172W-0** Bulk  
**16-172W-1** Package

## RG6 COAX CABLES



**16-203BK-0** 3' Length Black  
**16-212WH-0** 12' Length White  
**16-225WH-0** 25' Length White  
**16-250WH-0** 50' Length White  
*Use -1 for Display Package*

## TV SELECTOR SWITCH



Two way switch for 75Ω coaxial cable.

**16-902-0** Bulk  
**16-902-1** Package

## BNC COAXIAL CABLES



BNC-BNC RG58/u coaxial cables.

**18-644-0** 3' Length  
**18-744-0** 6' Length  
**18-844-0** 10' Length  
*Use -1 for Display Package*

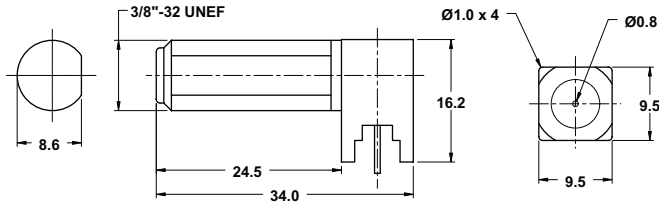
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**PC MOUNT 'F' JACK**



Right Angle PC mount 'F' Jack.  
**21-066-0** Bulk  
**21-066-2** Pkg (2)  
**21-066N-0** Nut only



**Chassis Jack**  
**21-061-0** Bulk  
**21-061-2** Package (2)



**Double 'F' chassis jack.**  
**21-081-0** Bulk  
**21-081-2** Package (2)

**COMPRESSION CRIMP TOOL**



- For crimping F/BNC/RCA Rg-58/59/62/6(3C/4C/5C) type compression
- Suitable for: 21-009, 21-010, 21-355, 21-356, 24-105 and 24-106 connectors
- Compressed dist. for F connector: 15.8~25.8mm
- Compressed dist. for BNC connector: 28.2~38.2mm
- Compressed dist. for RCA connector: 28.2~38.2mm
- Size: 9.1" (231mm)

**84-156-1** Pkg.

**'F' CONNECTORS**



**Standard crimp**  
**21-006-0** For RG6/u c/w ring  
**21-006-2** Package (2)



**Integral crimp ring**  
**21-007-0** For RG6/u  
**21-007-2** Package (2)



**Weatherproof**  
**21-008-0** For RG6/u  
**21-008-2** Package (2)  
 'O' ring and silicone seal for weather resistance.



**Premium waterproof**  
**21-009-0** For RG6/u  
**21-009-2** Package (2)  
 High quality positive clamp.



**Premium waterproof**  
**21-010-0** For RG59/u  
**21-010-2** Package (2)  
 High quality positive clamp.



**Screw-on style**  
**21-056-0** For RG6/u  
**21-056-2** Package (2)



**Screw-on style**  
**21-057-0** For RG59/u  
**21-057-2** Package (2)



**Integral crimp ring**  
**21-058-0** For RG59/u  
**21-058-2** Package (2)



**Standard crimp**  
**21-059-0** For RG59/u  
**21-059-2** Package (2)  
**21-059-10** Package (10)



**75Ω Terminator**  
**21-060-0** Bulk  
**21-060-2** Package (2)

**ECONOMY WATERPROOF 'F' TOOL**

**84-157-1**

This inexpensive tool is designed for waterproof F connectors. It also works on Augat/T&B Snap-N-Seal™ Connectors, Paladin SealTite™ Connectors, and AIM CATV F waterproof connectors



**WATERPROOF 'F' CONNECTOR TOOL**



- Works on F type RG-59(4C) & RG-6(5C) compression connectors
- This tool is designed for the 21-009 and 21-010 F connectors. It also works on Augat/T&B Snap-N-Seal™ Connectors, Paladin SealTite™ Connectors, and AIM CATV F waterproof connectors
- Compressed distance: 20.30±0.15mm
- Size: 8.5" (216mm)

**84-158-1** Pkg.

**HEAVY DUTY CRIMP TOOL**



**84-159-1**

This tool is suitable for all hexagonal crimp F59 connectors including integral ring types. Hex crimp size for RG59 (.255") and RG6 (.322"). Comfortable cushion grip handles.



# VIDEO & RF ADAPTERS



<b>F JACK</b>		<b>RCA PLUG</b>	
	21-115-0 21-115-1	Bulk Package	
<b>RCA JACK</b>		<b>BNC PLUG</b>	
	21-142-0 21-142-1	Bulk Package	
<b>RCA PLUG</b>		<b>F PLUG</b>	
	21-116-0 21-116-1	Bulk Package	
<b>F JACK</b>		<b>RCA JACK</b>	
	21-125-0 21-125-1	Bulk Package	
<b>RCA JACK</b>		<b>F PLUG</b>	
	21-126-0 21-126-1	Bulk Package	
<b>BNC JACK</b>		<b>RCA PLUG</b>	
	21-131-0 21-131-1	Bulk Package	
<b>F JACK</b>		<b>BNC JACK</b>	
	21-135-0 21-135-1	Bulk Package	
<b>BNC JACK</b>		<b>F PLUG</b>	
	21-136-0 21-136-1	Bulk Package	
<b>F JACK</b>		<b>BNC PLUG</b>	
	21-145-0 21-145-1	Bulk Package	
<b>RCA JACK</b>		<b>F PLUG</b>	
	21-146-0 21-146-1	Bulk Package	
<b>BNC PLUG</b>		<b>UHF JACK</b>	
	21-148-0 21-148-1	Bulk Package	
<b>BNC PLUG</b>		<b>N JACK</b>	
	21-149-0 21-149-1	Bulk Package	
<b>RCA JACK</b>		<b>PUSH-ON F PLUG</b>	
	21-152-0 21-152-1	Bulk Package	

## Video and RF Adapter Quick-Pick Table

		F		RCA		BNC		UHF		N		TNC		Mini UHF		SMA	
		J	P	J	P	J	P	J	P	J	P	J	P	J	P	J	P
<b>F</b>	<b>Jack</b>	21-081	21-155	21-125	21-115	21-135	21-145										
	<b>Plug</b>			21-126		21-136	21-146										
<b>RCA</b>	<b>Jack</b>		21-126				21-142										
	<b>Plug</b>	21-115	21-116			21-131											
<b>BNC</b>	<b>Jack</b>		21-136		21-131	21-368	21-369		21-173		21-193		21-194			21-191	21-190
	<b>Plug</b>	21-145	21-146	21-142		21-369	21-366	21-148		21-149							21-192
<b>UHF</b>	<b>Jack</b>						21-148	21-268			21-198		21-199		21-188		
	<b>Plug</b>					21-173			21-266	21-179							
<b>N</b>	<b>Jack</b>						21-149		21-179	21-468	21-469				21-189		
	<b>Plug</b>					21-193		21-198		21-469							
<b>TNC</b>	<b>Jack</b>										21-868	21-768	21-769		21-180		
	<b>Plug</b>					21-194		21-199				21-769					
<b>Mini UHF</b>	<b>Jack</b>								21-187						21-569		
	<b>Plug</b>							21-188		21-189		21-180		21-569			
<b>SMA</b>	<b>Jack</b>					21-191										21-868	
	<b>Plug</b>					21-190	21-192										



**21-155-0** Bulk  
**21-155-1** Package

**PUSH-ON  
F PLUG**



**21-190-0** Bulk  
**21-190-1** Package

**SMA PLUG**



**21-156-0** Bulk  
**21-156-1** Package

**F PLUG**



**21-191-0** Bulk  
**21-191-1** Package

**BNC JACK**



**21-173-0** Bulk  
**21-173-1** Package

**UHF PLUG**



**21-192-0** Bulk

**BNC PLUG**



**21-179-0** Bulk  
**21-179-1** Package

**UHF PLUG**



**21-193-0** Bulk  
**21-193-1** Package

**BNC JACK**

**N PLUG**



**21-180-0** Bulk  
**21-180-1** Package

**MINI UHF  
PLUG**



**21-194-0** Bulk  
**21-194-1** Package

**BNC JACK**

**TNC PLUG**



**21-188-0** Bulk  
**21-188-1** Package

**MINI UHF  
PLUG**



**21-198-0** Bulk  
**21-198-1** Package

**UHF JACK**

**N PLUG**



**21-189-0** Bulk  
**21-189-1** Package

**MINI UHF  
PLUG**



**21-199-0** Bulk  
**21-199-1** Package

**UHF JACK**

**TNC PLUG**

**See the quick-selector table  
on page 9 for availability of  
between series adapters.**

## UHF CONNECTORS

### UHF SPECIFICATIONS

#### MATERIALS:

Body : Brass  
 Contacts: Nickel plated brass  
 Dielectric: Delrin

#### ELECTRICAL:

Nominal Impedance: Non constant  
 Frequency Range: 0-500MHz  
 Voltage Rating: 500VAC  
 Withstanding Voltage: 1000V RMS  
 Insulation Resistance: 5000M $\Omega$  min.



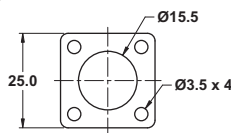
### UHF CHASSIS JACK

**21-238-0** Bulk Package  
**21-238-1** Bulk Package



### UHF CHASSIS JACK

**21-239-0** Bulk Package  
**21-239-1** Bulk Package



### UHF STANDARD PLUG



For RG8/u - use reducing adapters below for RG58 or 59

**21-259-0** Bulk Package  
**21-259-1** Bulk Package

### UHF REDUCING ADAPTER



**21-260-0** RG58/u  
**21-261-0** RG59/u  
 Use -2 for Display Package

### MALE UHF JOINER



**21-266-0** Bulk Package  
**21-266-1** Bulk Package

### UHF BULKHEAD MOUNT



50mm long with mtg. nuts  
**21-267-0** Bulk Package  
**21-267-1** Bulk Package

### FEMALE UHF JOINER



**21-268-0** Bulk Package  
**21-268-1** Bulk Package

### UHF RIGHT ANGLE



**21-269-0** Bulk Package  
**21-269-1** Bulk Package

## BNC CONNECTORS

### BNC SPECIFICATIONS

#### MATERIALS:

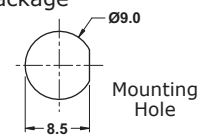
Body: Nickel plated brass  
 Contacts: Gold plated brass or phosphor bronze  
 Dielectric: Delrin

#### ELECTRICAL:

Nominal Impedance: 50 $\Omega$  (75 $\Omega$ )  
 Frequency range: 0-4 GHz  
 Voltage rating: 500VAC  
 Withstanding voltage: 1500V RMS  
 Insulation resistance: 5000M $\Omega$  min.

### ISOLATED CHASSIS JACK

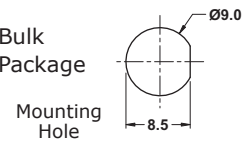
**21-337-0** Bulk Package  
**21-337-1** Bulk Package



### CHASSIS JACK



**21-338-0** Bulk Package  
**21-338-1** Bulk Package



### CRIMP PLUG



**21-344-0** RG174/u 50 $\Omega$   
**21-346-0** RG6/u 50 $\Omega$   
**21-348-0** RG58/u 50 $\Omega$   
**21-349-0** RG59/u 75 $\Omega$   
 Use -1 for Display Package

### CRIMP JACK



**21-350-0** Bulk Package  
**21-350-1** Bulk Package  
 for RG58/u

### BNC TERMINATORS



**21-351-0** 50 $\Omega$   
**21-352-0** 75 $\Omega$   
 Use -1 for Display Package

### TWIST-ON PLUG



**21-353-0** RG58/u  
**21-354-0** RG59/u  
 Use -1 for Display Package

### COMPRESSION CONNECTORS



Use 84-156-1 tool for installation

**21-355-0** RG59/u  
**21-356-0** RG6/u  
 Use -1 for Display Package

**BNC Connectors continued on next page**

**STANDARD PLUG (Clamp Type)**



**21-358-0** RG58/u  
**21-359-0** RG59/u  
Use -1 for Display Package

**TRIPLE JACK**



**21-364-0** Bulk  
**21-364-1** Package

**'T' CONNECTOR**



**21-365-0** Bulk  
**21-365-1** Package

**FEMALE JOINER**



**21-368-0** Bulk  
**21-368-1** Package

**MALE JOINER**



**21-366-0** Bulk  
**21-366-1** Package

**RIGHT ANGLE ELBOW**



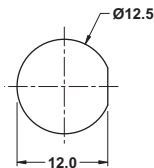
**21-369-0** Bulk  
**21-369-1** Package

**PANEL MOUNT JACK**



**21-367-0** Bulk  
**21-367-1** Package

Mounting Hole



**RUBBER CABLE BOOTS**

These rubber boots for BNC crimp connectors provide a professional molded look to coaxial cables.



**21-398-0** RG58/u  
**21-399-0** RG59/u  
Use -6 for Display Package

**N CONNECTORS**

**SPECIFICATIONS**

**MATERIALS:**

Body: Nickel plated brass  
Contacts: Gold plated brass or phosphor bronze  
Dielectric: Delrin

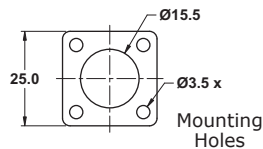
**ELECTRICAL:**

Nominal Impedance: 50Ω  
Frequency range: 0-4 GHz  
Voltage rating: 500VAC  
Withstanding voltage: 1500V RMS  
Insulation resistance: 5000MΩ min.

**CHASSIS JACK**



**21-439-0** Bulk  
**21-439-1** Package



**STANDARD PLUG (RG58/u)**



**21-458-0** Bulk  
**21-458-1** Package

**CRIMP/SOLDER PLUG (RG58/u)**



Centre-pin soldered

**21-450-0** Bulk  
**21-450-1** Package

**FEMALE JOINER**



**21-468-0** Bulk  
**21-468-1** Package

**STANDARD PLUG (RG8/u)**



**21-457-0** Bulk  
**21-457-1** Package

**RIGHT ANGLE ELBOW**



**21-469-0** Bulk  
**21-469-1** Package



## MINI UHF CONNECTORS

### MINI UHF SPECIFICATIONS

**MATERIALS:**

Body : Brass  
 Contacts: Nickel plated brass  
 Dielectric: Delrin

**ELECTRICAL:**

Nominal Impedance: Non constant  
 Frequency Range: 0-2GHz  
 Voltage Rating: 500VAC  
 Withstanding Voltage: 1000V RMS  
 Insulation Resistance: 5000MΩ min.

## TNC CONNECTORS

### TNC SPECIFICATIONS

**MATERIALS:**

Body: Nickel plated brass  
 Contacts: Gold plated brass or phosphor bronze  
 Dielectric: Delrin

**ELECTRICAL:**

Nominal Impedance: 50Ω  
 Frequency range: 0-4 GHz  
 Voltage rating: 500VAC  
 Withstanding voltage: 1500V RMS  
 Insulation resistance: 5000MΩ min.

#### CRIMP PLUG RG58/u



21-548-0 Bulk Package  
 21-548-1

#### CRIMP PLUG (RG58/u)



21-748-0 Bulk Package  
 21-748-1

#### RIGHT ANGLE ELBOW



21-569-0 Bulk Package  
 21-569-1

#### FEMALE JOINER



21-768-0 Bulk Package  
 21-768-1

#### RIGHT ANGLE ELBOW



21-769-0 Bulk Package  
 21-769-1

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 Fax: 604-435-8890  
 Toll Free: 1-800-663-4992  
 Web Site: www.mode-elec.com

*Visit our Web Site at  
<http://www.mode-elec.com>*

## SMA CONNECTORS

### SMA SPECIFICATIONS

**MATERIALS:**

Body: Nickel plated brass  
 Contacts: Gold plated brass or phosphor bronze  
 Dielectric: Delrin

**ELECTRICAL:**

Nominal Impedance: 50Ω  
 Frequency range: 0-12.4 GHz  
 Voltage rating: 500VAC  
 Withstanding voltage: 1500V RMS  
 Insulation resistance: 5000MΩ min.

#### CRIMP PLUG FOR RG174/U



21-847-0 Bulk Package  
 21-847-1

#### CRIMP PLUG FOR RG58/U



21-848-0 Bulk Package  
 21-848-1

#### FEMALE JOINER



21-868-0 Bulk Package  
 21-868-1



**24-100-0** Bulk  
**24-100-2** Pkg (2)

Metal body RCA plug. Maximum cable dia. 7.5mm



**24-180-0** Bulk  
**24-180-2** Pkg (2)

Chassis mount RCA jack.  
6.4mm mounting hole.



**24-104-0** Bulk  
**24-104-2** Pkg (2)

Metal plug with strain relief. Maximum cable dia. 4.5mm



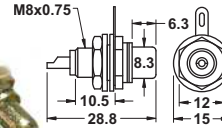
**24-181-0** Bulk  
**24-181-2** Pkg (2)

Gold plated chassis RCA jack.  
6.4mm mounting hole.



**24-105-0** RG59/u  
**24-105-1** Pkg  
**24-106-0** RG6/u  
**24-106-1** Pkg

Use 84-156-1 tool for installation



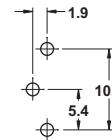
**24-183B-0** Black Bulk  
**24-183R-0** Red Bulk  
**24-183-2** Pkg (2)

Gold Plated Color coded isolated chassis RCA jack. 8mm mtg hole.



**24-101-0** Black  
**24-102-0** Red  
**24-109-4** Pkg (4)

Colored plastic body RCA plugs. Max. cable dia. 4.5mm.



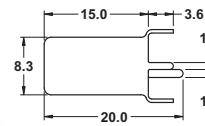
**24-191-0** Bulk  
**24-191-2** Pkg (2)

PC mount RCA jack



**24-111-0** Black  
**24-112-0** Red  
**24-113-4** Pkg (4)

Colored plastic with strain relief. Max. cable dia. 4.5mm



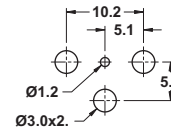
**24-192-0** Bulk  
**24-192-2** Pkg (2)

PC mount RCA jack



**24-114-0** Bulk  
**24-114-2** Pkg (2)

Black plastic right angle RCA plug. Max. cable dia. 5.1mm



**24-195-0** Bulk  
**24-195-2** Pkg (2)

Right angle PC mount RCA jack



**24-120-0** Bulk  
**24-120-1** Pkg

Gold plated plug with spring strain relief. Cable dia 5.5mm



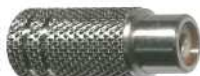
**24-121-0** Black

Color coded gold plated plugs. Max. cable dia. 5.0mm



**24-124-0** Black  
**24-125-0** Red  
**24-126-2** Pkg (2)

Color coded gold plated plugs. Max cable dia. 6.0mm



**24-150-0** Bulk  
**24-150-2** Pkg (2)

Metal body RCA jack. Max. cable dia. 7.5mm

**Special Order Products**  
*If you have a requirement for items not shown in this Catalog, please contact Mode or your local Distributor and we would be pleased to find an economical source.*

**MODE ELECTRONICS LTD.**  
211 - 2999 UNDERHILL AVE.,  
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Fax: 604-435-8890  
Toll Free: 1-800-663-4992  
Web Site: www.mode-elec.com

Dimensions shown for plugs and jacks are lengths and diameters of the plug body (without S/R). Cable diameter dimension is maximum cable size.

## 2.5mm PLUGS



**24-200-0** Bulk  
**24-200-2** Pkg (2)

**Mono** plug 25mm long x 9mm dia. Cable dia. 6mm



**24-211-0** Bulk  
**24-211-2** Pkg (2)

**Mono** plug 19 x 8mm dia. Cable diameter 4mm



**24-221-0** Bulk  
**24-221-1** Pkg

**Stereo** plug 23mm x 8mm dia. Cable diameter 4mm



**24-223-0** Bulk  
**24-223-1** Pkg

**Stereo** plug 24mm x 10mm dia. Cable diameter 4mm

## 2.5mm JACKS



**24-271-0** Bulk  
**24-271-1** Pkg

Inline **stereo** jack Black color. 26mm L x 11mm dia. Cable dia. 5mm



**24-287-0** Bulk  
**24-287-2** Pkg (2)

**Mono** chassis jack. 8mm W x 9.6mm H x 8mm D. 4mm mtg. hole



**24-288-0** Bulk  
**24-288-2** Pkg (2)

**Stereo** chassis jack. 8mm W x 9.6mm H x 8mm D. 4mm mtg. hole

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Web Site: [www.mode-elec.com](http://www.mode-elec.com)

## 3.5mm PLUGS



**24-300-0** Bulk  
**24-300-2** Pkg (2)

Metal **mono** plug 25 x 9mm dia. Cable dia. 4.5mm



**24-301-0** Bulk  
**24-301-2** Pkg (2)

**Mono** plug 25 x 10mm diameter. Cable dia. 5mm



**24-303-0** Bulk  
**24-303-2** Pkg (2)

**Mono** plug 24 x 10mm dia. Cable dia. 4mm



**24-304-0** Bulk  
**24-304-2** Pkg (2)

Metal **mono** plug 26 x 9mm dia. Cable dia. 4.5mm



**24-310-0** Bulk  
**24-310-2** Pkg (2)

3.5mm **mono** right angle plug. Cable diameter 6.75mm



**24-319-0** Bulk  
**24-319-2** Pkg (2)

3.5mm **stereo** right angle plug. Cable diameter 6.75mm



**24-320-0** Bulk  
**24-320-2** Pkg (2)

Metal **stereo** plug. 25mm x 9mm dia. Cable dia. 6.5mm



**24-321-0** Bulk  
**24-321-2** Pkg (2)

Black plastic **stereo** plug. 25 x 10mm dia. Cable 6mm dia.



**24-322-0** Bulk  
**24-322-2** Pkg (2)

Metal **stereo** plug. 25 x 9mm dia. Cable dia. 4.5mm



**24-323-0** Bulk  
**24-323-2** Pkg (2)

Black plastic **stereo** plug. 52 x 10mm dia. Cable dia. 4mm

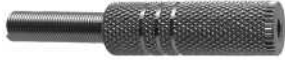
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<http://www.mode-elec.com>

**3.5mm JACKS**



**24-351-0** Bulk  
**24-351-2** Pkg (2)

Black mono jack. 35 x 9mm dia. Cable dia. 6mm



**24-353-0** Bulk  
**24-353-2** Pkg (2)

Metal mono jack. 34 x 10mm dia. Cable dia. 4.5mm



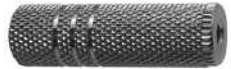
**24-354-0** Bulk  
**24-354-2** Pkg (2)

Black plastic mono jack. 34 x 11mm dia. Cable dia. 4.0mm



**24-371-0** Bulk  
**24-371-1** Pkg

Black plastic stereo jack. 34 x 11mm dia. Cable dia. 4.5mm



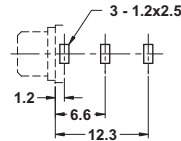
**24-372-0** Bulk  
**24-372-2** Pkg (2)

Metal stereo jack. 34 x 10mm dia. Cable dia. 6mm



Closed circuit mono chassis jack. Mtg. hole 6mm dia.

**24-381-0** Bulk  
**24-381-4** Pkg (4)



**24-383-0** Bulk  
**24-383-2** Pkg (2)

Mono chassis jack (PC mount also) Mounting hole 6mm diameter.



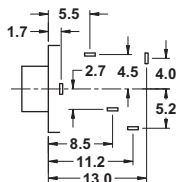
Mono closed circuit chassis jack. 6mm mtg. hole

**24-387-0** Bulk  
**24-387-2** Pkg (2)



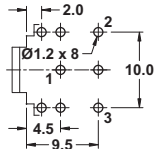
Stereo closed circuit chassis jack. 6mm mtg. hole

**24-388-0** Bulk  
**24-388-1** Pkg



**24-391-0** Bulk  
**24-391-1** Pkg

Stereo PC mount jack with 2 normally closed switches. 6mm mtg.



**24-392-0** Bulk  
**24-392-1** Pkg

Stereo PC mount jack.

**1/4" PLUGS**



**24-600-0** Bulk  
**24-600-1** Pkg

Metal mono plug. 33 x 12mm dia. Cable dia. 8mm



**24-601-0** Bulk  
**24-601-1** Pkg

Black plastic mono plug. 40 x 13mm dia. Cable dia. 8mm



**24-603-0** Bulk  
**24-603-1** Pkg

Mono plug with strain relief. 38 x 13mm dia. Cable dia. 6mm



**24-604-0** Bulk  
**24-604-1** Pkg

Metal mono plug with spring strain relief. 32 x 12mm dia. Cable dia. 6mm



**24-610-0** Bulk  
**24-610-1** Pkg

Metal right angle mono plug



**24-618-0** Bulk  
**24-618-1** Pkg

Metal right angle stereo plug



**24-620-0** Bulk  
**24-620-1** Pkg

Metal stereo plug. 33 x 12mm dia. Cable dia. 8mm



**24-621-0** Bulk  
**24-621-1** Pkg

Plastic stereo plug. 40 x 13mm dia. Cable dia. 7.5mm



**24-622-0** Bulk  
**24-622-1** Pkg

Metal stereo plug with spring strain relief. 32 x 12mm dia. Cable dia. 6mm



**24-623-0** Bulk  
**24-623-1** Pkg

Stereo plug with strain relief. 37 x 13mm dia. Cable dia. 6mm





**MINI DIN CONNECTORS**

**INLINE JACKS**



- 26-140-0** 4-position
- 26-160-0** 6-position
- 26-180-0** 8-position
- Use -1 for Display Pkg.

**INLINE PLUGS**



- 26-240-0** 4-position
- 26-250-0** 5-position
- 26-260-0** 6-position
- 26-280-0** 8-position
- Use -1 for Display Pkg.

**MICROPHONE CONNECTORS**



- 25-513-0** 3-pos jack
- 25-513-1** Pkg
- 25-515-0** 5-pos jack
- 25-515-1** Pkg



- 25-523-0** 3-pos plug
- 25-523-1** Pkg
- 25-525-0** 5-pos plug
- 25-525-1** Pkg



- 25-533-0** 3-pos. jack
- 25-533-1** Pkg

**INLINE PLUGS**

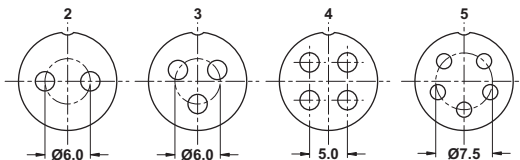


- 25-722-0** 2-position
- 25-723-0** 3-position
- 25-724-0** 4-position
- 25-725-0** 5-position
- 25-726-0** 6-position
- 25-728-0** 8-position
- Use -1 for Display Package

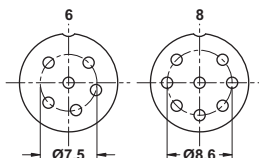
**CHASSIS JACKS**



- 25-732-0** 2-position
- 25-733-0** 3-position
- 25-734-0** 4-position
- 25-735-0** 5-position
- 25-736-0** 6-position
- 25-738-0** 8-position
- Use -1 for Display Package



**Pin Layout**



**MINIATURE CONNECTORS**

These are miniature versions of our 25-72X and 25-73X series (approx. 30% smaller).

**INLINE PLUGS**



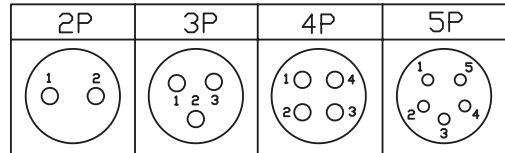
- 25-722M-0** 2-position
- 25-723M-0** 3-position
- 25-724M-0** 4-position
- 25-725M-0** 5-position
- Use -1 for Display Pkg.

**CHASSIS JACKS**

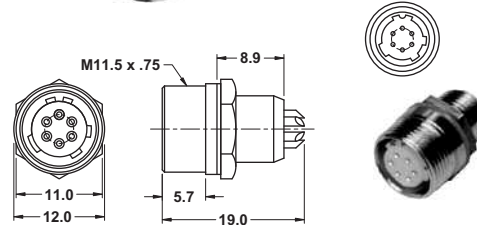
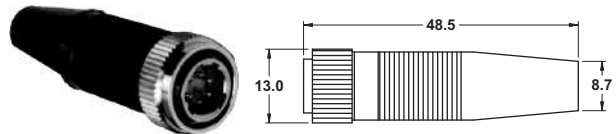


- 25-732M-0** 2-position
- 25-733M-0** 3-position
- 25-734M-0** 4-position
- 25-735M-0** 5-position
- Use -1 for Display Pkg.

**Pin Layout**



**PRECISION MINIATURE CONNECTOR**



This miniature precision six contact connector features gold plated contacts, threaded locking ring and precision fit and finish.

- 25-746-0** 6-position plug
- 25-746-1** Display Package
- 25-756-0** 6-position jack
- 25-756-1** Display Package

**M12 WATERPROOF (IP67) CONNECTORS**

**INLINE PLUGS**



- 25-814-0** 4-position
- 25-815-0** 5-position
- 25-818-0** 8-position
- Use -1 for Display Pkg.

**CHASSIS JACKS**



- 25-834-0** 4-position
- 25-835-0** 5-position
- 25-838-0** 8-position
- Use -1 for Display Pkg.



Right angle RCA jack to RCA plug adapter.

**27-112-0** Bulk  
**27-112-1** Pkg



RCA jack to RCA jack adapter.

**27-116-0** Bulk  
**27-116-1** Pkg



Gold plated RCA jack to RCA jack adapter.

**27-117-0** Bulk  
**27-117-1** Pkg



RCA jack to 3.5mm plug.

**27-132-0** Bulk  
**27-132-1** Pkg



RCA jack to 1/4" (6.35mm) phone plug.

**27-162-0** Bulk  
**27-162-1** Pkg



2.5mm Stereo Jack to 3.5mm Stereo Plug

**27-242-0** Bulk  
**27-242-1** Pkg



3.5mm jack to RCA plug.

**27-312-0** Bulk  
**27-312-1** Pkg



3.5mm jack to 2.5mm plug.

**27-322-0** Bulk  
**27-322-1** Pkg



3.5mm jack to 1/4" (6.35mm) stereo phone plug.

**27-353-0** Bulk  
**27-353-1** Pkg



3.5mm jack to 1/4" (6.35mm) mono phone plug.

**27-362-0** Bulk  
**27-362-1** Pkg



3.5mm stereo jack to 3.5mm stereo jack.

**27-366-0** Bulk  
**27-366-1** Pkg



3.5mm stereo jack to 2.5mm stereo plug.

**27-422-0** Bulk  
**27-422-1** Pkg



3.5mm stereo jack to 3.5mm mono plug.

**27-434-0** Bulk  
**27-434-1** Pkg



3.5mm stereo jack to 1/4" (6.35mm) stereo phone plug.

**27-455-0** Bulk  
**27-455-1** Pkg



3.5mm stereo jack to 1/4" (6.35mm) mono phone plug.

**27-464-0** Bulk  
**27-464-1** Pkg



1/4" (6.35mm) stereo jack to 3.5mm stereo plug.

**27-533-0** Bulk  
**27-533-1** Pkg



1/4" (6.35mm) stereo jack to 3.5mm mono plug.

**27-534-0** Bulk  
**27-534-1** Pkg



1/4" (6.35mm) mono jack to 3.5mm mono plug.

**27-632-0** Bulk  
**27-632-1** Pkg



1/4" (6.35mm) mono jack to 1/4" (6.35mm) mono jack.

**27-666-0** Bulk  
**27-666-1** Pkg



RCA 'Y' adapter.

**27-913-0** Bulk  
**27-913-1** Pkg

**AUDIO ADAPTER**



3.5mm stereo plug to 2 3.5mm stereo jacks

**27-933-0** Bulk  
**27-933-1** Pkg.

**RCA 'Y' CABLE**



2 RCA Jacks to RCA Plug.  
6" long

**27-912-0** Bulk  
**27-912-1** Pkg.

**MISC. 'Y' CABLES**



3.5mm Stereo - 2 RCA Plugs.  
6" long

**27-971-0** Bulk  
**27-971-1** Pkg.



3.5mm stereo - 2 RCA Jacks.  
6" long

**27-972-0** Bulk  
**27-972-1** Pkg.



3.5mm stereo plug - 2 RCA plugs.  
6" long.

**27-974-0** Bulk  
**27-974-1** Pkg.



3.5mm stereo plug - 2  
3.5mm stereo jacks. 6" long

**27-978P-0** Bulk  
**27-978P-1** Pkg.

**RCA COAXIAL CABLES**



RCA plug to RCA plug  
with RG59/u cable.

<b>28-106G-0</b>	6' Gold	<b>28-106G-1</b>	Pkg
<b>28-112-0</b>	12' long	<b>28-112-1</b>	Pkg
<b>28-125-0</b>	25' long	<b>28-125-1</b>	Pkg

**3.5mm R/A STEREO CORD 1m**



**28-232-0** Bulk  
**28-232-1** Pkg

**3.5mm CABLES**



3.5mm plug to  
3.5mm plug.

<b>28-233-0</b>	6' Mono	<b>28-233-1</b>	Pkg
<b>28-234-0</b>	6' Stereo	<b>28-234-1</b>	Pkg
<b>28-235-0</b>	12' Stereo	<b>28-235-1</b>	Pkg
<b>28-236-0</b>	10' Mono	<b>28-236-1</b>	Pkg



**3.5mm STEREO PLUG TO  
3.5mm STEREO JACK**

<b>28-244-0</b>	6' long	<b>28-244-1</b>	Pkg
<b>28-245-0</b>	12' long	<b>28-245-1</b>	Pkg
<b>28-246-0</b>	25' long	<b>28-246-1</b>	Pkg

**GOLD PLATED S-VHS  
JOINER**



**28-366-0** Bulk  
**28-366-1** Pkg.

**S-VHS CABLES**



Gold plated

<b>28-306-0</b>	6' long	<b>28-306-1</b>	Pkg
<b>28-312-0</b>	12' long	<b>28-312-1</b>	Pkg
<b>28-325-0</b>	25' long	<b>28-325-1</b>	Pkg
<b>28-350-0</b>	50' long	<b>28-350-1</b>	Pkg

**PREMIUM STEREO  
RCA CABLE**



**28-511P-0** 3' long  
**28-611P-0** 6' long  
**28-711P-0** 12' long

- High-Definition home theater RCA interconnects unparalleled quality and top line performance for home theater audio equipment
- Ultra-Flexible rubberized PVC jacket, 6.0mm OD
- High-Retention RCA plugs
- Fully molded construction

**Visit our Web Site at  
<http://www.mode-elec.com>**





## GOLD PLATED VIDEO CABLES

Gold plated video cables - two audio lines plus shielded video line.

<b>28-411-0</b>	3' long	<b>28-411-1</b>	Pkg
<b>28-413-0</b>	12' long	<b>28-413-1</b>	Pkg
<b>28-414-0</b>	18' long	<b>28-414-1</b>	Pkg
<b>28-415-0</b>	25' long	<b>28-415-1</b>	Pkg



## STEREO AUDIO CABLES

Dual RCA plugs on both ends.

<b>28-611-0</b>	6' long	<b>28-611-1</b>	Pkg
<b>28-711-0</b>	12' long	<b>28-711-1</b>	Pkg



## PREMIUM STEREO PATCH CORD

RCA Premium Patch Cord

<b>28-613-0</b>	6' long	<b>28-613-1</b>	Pkg
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## COMPONENT VIDEO CABLE

3-RCA Component-Video Cable. Color is Ivory.

<b>28-523-0</b>	3' long	<b>28-523-1</b>	Pkg
<b>28-623-0</b>	6' long	<b>28-623-1</b>	Pkg
<b>28-723-0</b>	12' long	<b>28-723-1</b>	Pkg



## HDMI CABLE

6' long

<b>28-801-0</b>	Bulk
<b>28-801-1</b>	Pkg



## SINGLE LINK DVI-D CABLE

<b>28-614-0</b>	6' long
<b>28-616-0</b>	12' long

*Use -1 for Display Package*

- Installs easily on any DVD-D socket. Superior TMDS Signal Resolution
- Single Link cable supports video resolutions up to 1920 x 1080 and data rates to 4.95Gbps
- Dual Link cable supports video resolutions up to 2048 x 1536 and data rates to 9.9Gbps
- Fully molded construction Super-flexible satin black PVC jacket
- AWG28 tinned copper conductors
- 24K gold-plated contacts

- Ideal for HDTV sets, DVD players/recorders and set-top boxes
- Compatible with all HDMI devices
- Carries high-definition digital video and multi-channel audio in one cable
- Supports video resolutions up to 1920x1080 and data rates to 5Gbps
- Fully molded construction
- Super-flexible satin black PVC jacket
- HDMI and HDCP compliant
- 24K gold-plated contacts

## STEREO HEADPHONE EXTENSION



Coiled 1/4" phone plug extension cord. Extends to 25'.

<b>28-807-0</b>	10' long	<b>28-807-1</b>	Pkg	<b>28-975-0</b>	Bulk	<b>28-975-1</b>	Pkg
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## DUAL LINK DVI-D CABLE

**D-SUB SPECIFICATIONS**

**MATERIALS**

Shell: Tin or zinc over copper plated steel  
 Contacts: Male - Brass (gold plated over nickel)  
 Female - Gold plated phosphor bronze  
 Insulator: PBT & glass-fibre reinforced UL94V-0

**ELECTRICAL**

Current rating: 3 amps  
 Working voltage: 125V RMS  
 Dielectric strength: 1000 volts for 1 minute  
 Insulation resistance: 1000MΩ @ 500VDC  
 Temperature range: -55 to +105 degrees C

**SOLDER D-SUB CONNECTORS**

**MALE**

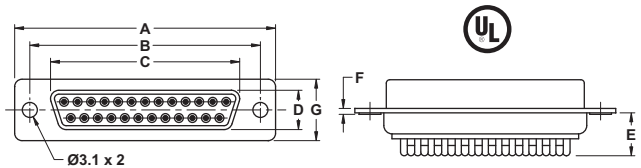
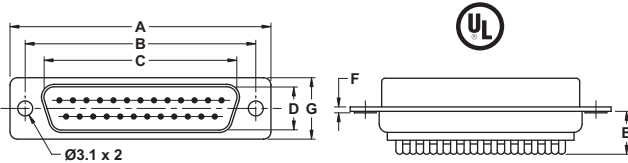


**30-110-0** 9-position  
**30-111-0** 15-position  
**30-112-0** 25-position  
**30-113-0** 37-position  
**30-114-0** 50-position  
 Use -1 for Display Package

**FEMALE**



**30-120-0** 9-position  
**30-121-0** 15-position  
**30-122-0** 25-position  
**30-123-0** 37-position  
 Use -1 for Display Package



Size	A	B	C	D	E	F	G
9-pin	30.80	25.00	16.92	8.30	8.0	1.2	12.5
15-pin	39.20	33.30	25.25	8.30	8.0	1.2	12.5
25-pin	53.10	47.10	38.96	8.30	8.0	1.2	12.5
37-pin	69.40	63.50	55.42	8.30	8.0	1.2	12.5
50-pin	67.00	61.00	52.81	11.30	8.0	1.2	15.3

Size	A	B	C	D	E	F	G
9-pin	30.80	25.00	16.30	7.90	8.0	1.2	12.5
15-pin	39.20	33.30	24.60	7.90	8.0	1.2	12.5
25-pin	53.10	47.10	38.30	7.90	8.0	1.2	12.5
37-pin	69.40	63.50	54.80	7.90	8.0	1.2	12.5

**CRIMP D-SUB CONNECTORS**

**MALE**

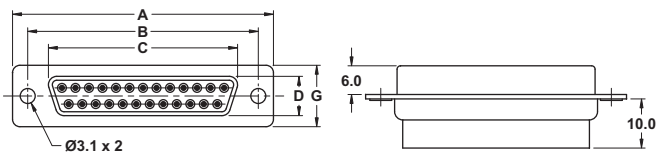
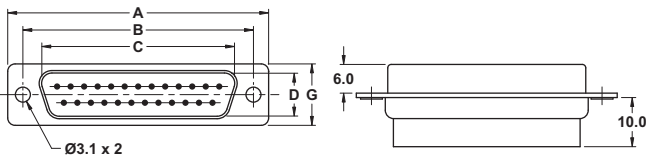


**30-210-0** 9-position  
**30-211-0** 15-position  
**30-212-0** 25-position  
 Display package (-1) contains connector body plus contacts

**FEMALE**



**30-220-0** 9-position  
**30-221-0** 15-position  
**30-222-0** 25-position  
 Display package (-1) contains connector body plus contacts



Size	A	B	C	D	G
9-pin	30.80	25.00	16.92	8.30	12.5
15-pin	39.20	33.30	25.25	8.30	12.5
25-pin	53.10	47.10	38.96	8.30	12.5
37-pin	69.40	63.50	55.42	8.30	12.5

Size	A	B	C	D	G
9-pin	30.80	25.00	16.30	7.90	12.5
15-pin	39.20	33.30	24.60	7.90	12.5
25-pin	53.10	47.10	38.30	7.90	12.5

**D-SUB CRIMP CONTACTS**

Contacts for 30-21X and 30-22X series D-sub connectors.

Gold plated D-sub contacts. Suitable for 24-26 AWG wire size.



**30-226-0** Male contacts (loose)  
**30-226-100** Display Package (100)

**30-228-0** Female contacts (loose)  
**30-228-100** Display Package (100)

## D-SUB ACCESSORIES

### FEMALE LOCK POSTS



Locking hardware c/w nuts & washers (set of two)

**30-023-0** Bulk only

### MALE LOCK SCREWS



Locking screws c/w clip-on captivators (set of two)

**30-028-0** Bulk only

### MALE LOCK POSTS



Knurled lock posts - use with hoods (set 2)

**30-030-0** Bulk only

## D-SUB HOODS

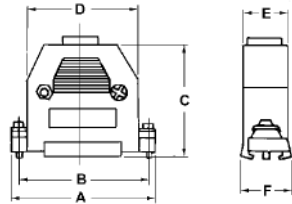
Grey plastic D-sub hoods complete with all hardware

**30-130-0** 9-position  
**30-131-0** 15-position  
**30-132-0** 25-position  
**30-133-0** 37-position  
**30-134-0** 50-position  
 Use -1 for Display Package



Chrome plated plastic D-sub hoods for EMI/RFI shielding

**30-230-0** 9-position  
**30-231-0** 15-position  
**30-232-0** 25-position  
**30-233-0** 37-position  
**30-234-0** 50-position  
 Use -1 for Display Package



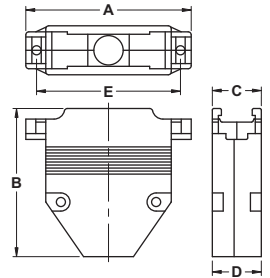
Size	A	B	C	D	E	F
9-pin	31.00	24.99	39.50	20.50	16.5	16.5
15-pin	39.00	33.52	35.50	28.00	16.5	17.5
25-pin	55.50	47.04	41.00	37.00	16.5	16.5
37-pin	69.50	63.50	51.00	51.00	24.0	19.0
50-pin	69.10	61.11	44.00	54.50	20.0	19.0



Die Cast Metal D-sub hoods complete with all hardware

**30-230M-0** 9-position  
**30-231M-0** 15-position  
**30-232M-0** 25-position  
 Use -1 for Display Package

Size	A	B	C	D	E
9-pin	31.00	47.00	15.60	15.80	24.99
15-pin	40.00	48.00	15.80	15.80	33.32
25-pin	53.50	48.00	16.00	16.00	47.04



## PRINTED CIRCUIT MOUNT D-SUBS

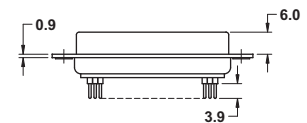
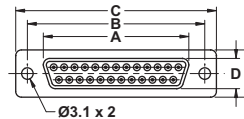
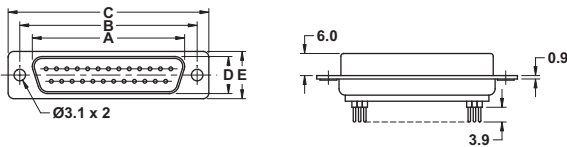
### MALE

**30-310-0** 9-position  
**30-311-0** 15-position  
**30-313-0** 37-position  
**30-314-0** 50-position  
 Use -1 for Display Package



### FEMALE

**30-320-0** 9-position  
**30-322-0** 25-position  
**30-323-0** 37-position  
**30-324-0** 50-position  
 Use -1 for Display Package



Size	A	B	C	D	E
9-pin	16.92	25.00	30.80	8.30	12.5
15-pin	25.25	33.30	39.20	8.30	12.5
25-pin	39.96	47.10	53.10	8.30	12.5
37-pin	55.42	63.50	69.40	8.30	12.5
50-pin	52.81	61.00	67.00	11.30	15.3

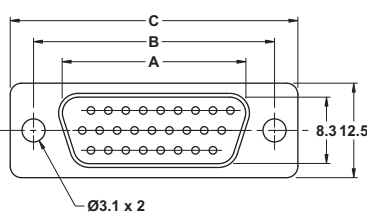
Size	A	B	C	D	E
9-pin	16.30	25.00	30.80	7.90	12.5
25-pin	38.30	47.10	53.10	7.90	12.5
37-pin	54.80	63.50	69.40	7.90	12.5
50-pin	52.20	61.00	67.00	10.9	15.3

**HIGH DENSITY SOLDER D-SUBS**

**MALE**



**30-810-0** 15-position  
**30-812-0** 44-position  
*Use -1 for Display Package*

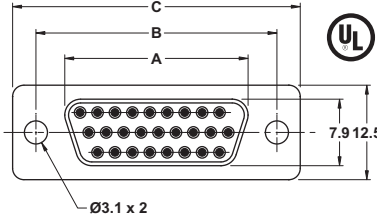


Size	A	B	C
15-pin	16.92	25.00	30.80
44-pin	38.96	47.10	53.10

**FEMALE**



**30-820-0** 15-position  
**30-821-0** 26-position  
*Use -1 for Display Package*



Size	A	B	C
15-pin	16.30	25.00	30.80
26-pin	24.60	33.30	39.20

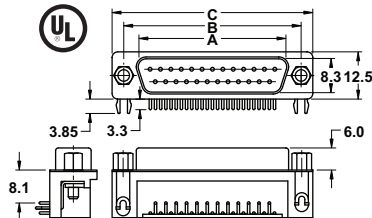
**RIGHT ANGLE P.C. MOUNT D-SUB**

**.318"/8.1mm footprint**

**MALE**



**30-410-0** 9-position  
**30-411-0** 15-position  
**30-412-0** 25-position  
*Use -1 for Display Package*

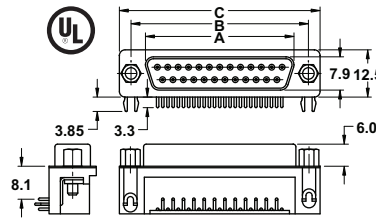


Size	A	B	C
9-pin	16.92	25.00	30.80
15-pin	25.25	33.30	39.20
25-pin	38.60	47.10	53.10

**FEMALE**



**30-420-0** 9-position  
**30-421-0** 15-position  
**30-422-0** 25-position  
**30-423-0** 37-position  
*Use -1 for Display Package*



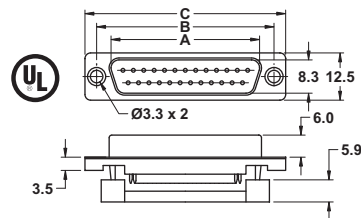
Size	A	B	C
9-pin	16.30	25.00	30.80
15-pin	24.60	33.30	39.20
25-pin	38.30	47.10	53.10
37-pin	54.80	63.50	69.4

**RIBBON CABLE D-SUBS**

**MALE**



**30-710-0** 9-position  
**30-711-0** 15-position  
**30-712-0** 25-position  
**30-713-0** 37-position  
*Use -1 for Display Package*

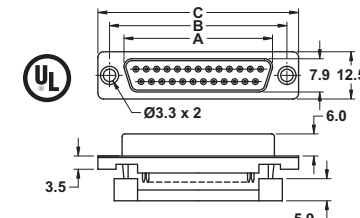


Size	A	B	C
9-pin	16.92	25.00	30.80
15-pin	25.25	33.30	39.20
25-pin	38.60	47.10	53.10
37-pin	55.42	63.50	69.4

**FEMALE**



**30-720-0** 9-position  
**30-721-0** 15-position  
**30-722-0** 25-position  
*Use -1 for Display Package*



Size	A	B	C
9-pin	16.30	25.00	30.80
15-pin	24.60	33.30	39.20
25-pin	38.30	47.10	53.10

**MODE ELECTRONICS LTD.**  
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BURNABY, B.C., CANADA, V5A 3C2  
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Fax: 604-435-8890  
Toll Free: 1-800-663-4992  
Web Site: www.mode-elec.com







**AC OUTLET STRIP**



Elect. Rating:  
125VAC 15Amp  
Max. Surge  
Suppression:  
450 Joules

6 outlet power distribution strip with lighted power switch/breaker and surge suppression. LED Power indicator. Durable Plastic case with 6' cord. Outlets turned 90 degrees for AC adapters. Attractive Mode display box.

**31-063A-1** Display Box

**AUTO PLUG/CORD**



2.1mm Plug 8' cord.  
Has F1A (1Amp - 5x20mm) fuse.  
Rating: 3 Amps @ 12VDC

**31-099-0** Bulk

**31-099-1** Pkg.

**DC POWER PLUGS**



9.5mm barrel length  
4 mm cable diameter

**31-101-0** 1.3mm I.D.  
**31-121-0** 2.1mm I.D.  
**31-141-0** 2.5mm I.D.  
Use -2 for Display Pkg.



14mm barrel length  
4 mm cable diameter

2.1mm I.D.  
**31-122-0** Bulk  
**31-122-1** Pkg.



9.5mm barrel length  
4.3mm cable diameter

**31-123-0** 2.1mm I.D.  
**31-143-0** 2.5mm I.D.  
**31-161-0** 3.0mm I.D.  
Use -2 for Display Pkg.



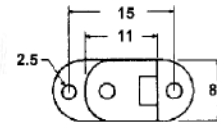
14mm barrel length  
4.3mm cable diameter

**31-124-0** 2.1mm I.D.  
**31-144-0** 2.5mm I.D.  
Use -2 for Display Pkg.

**DC POWER JACKS**



**31-132-0** 2.1mm  
**31-152-0** 2.5mm  
Use -1 for Display Pkg.



Max. 2A @ 16VDC  
2.5mm

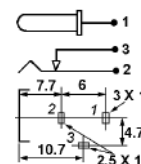
**31-153-0** Bulk  
**31-153-2** Pkg.



Max. 2A @ 16VDC  
**31-134-0** 2.1mm  
**31-154-0** 2.5mm  
Use -2 for Display Pkg.  
**13mm chassis mtg. hole.**



Compact isolated chassis mount  
DC power jack. 8mm mounting hole.  
**31-134M-0** 2.1mm 0.5A @ 12V  
**31-154M-0** 2.5mm 1.0A @ 12V  
Use -2 for Display Pkg.



Max. 2A @ 16VDC  
**31-155-0** 2.1mm  
**31-156-0** 2.5mm  
Use -2 for Display Pkg.

PBT Material 220 deg. C

**HOME OR OFFICE SURGE ARRESTER WITH PHONE AND COAX PROTECTION**



- Heavy Duty 6' Power Cord (14AWG x 3C)
- Telephone and Coax Line Protection
- Illuminated On-Off Power Switch/Circuit Breaker
- Surge Indicator LED
- 8 Surge Protected Outlets (3 Wide Spaced)

**31-067-1** Display Box

**DC POWER PRODUCTS**

**FEMALE AUTO POWER JACK**



Female inline jack. Accepts 31-085, 31-088, 31-097, 31-089, 31-099, 31-085E.

**31-080-0** Bulk  
**31-080-1** Pkg.

**AUTO POWER PLUG c/w LED**



Fuseable auto power plug with green LED indicator. Comes with 3A fuse.

**31-085-0** 10A/12VDC **31-085-1** Pkg.  
**31-085E-0** 10A/12VDC Bulk

**AUTO POWER PLUG, FUSEABLE**



**31-088-0** Bulk  
**31-088-1** Pkg.


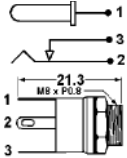
Auto cigarette lighter plug with fuse holder.

**STANDARD AUTO PLUG**



**31-089-0** Bulk  
**31-089-1** Pkg.

Standard auto cigarette lighter plug.

Max. 2A @ 16VDC  
**31-157-0** 2.1mm  
**31-158-0** 2.5mm  
 Use -1 for Display Pkg.


**2.1mm DC POWER JACK to TERMINAL BLOCK**



There is a 2.1mm DC jack on one end, and a screw terminal block on the other. The terminals are labeled with positive/negative, assuming a center positive configuration

**31-170-0** Bulk  
**31-170-1** Pkg.

**2.1mm DC POWER PLUG to TERMINAL BLOCK**



There is a 2.1mm DC plug on one end, and a screw terminal block on the other. The terminals are labeled with positive/negative, assuming a center positive configuration

**31-171-0** Bulk  
**31-171-1** Pkg.


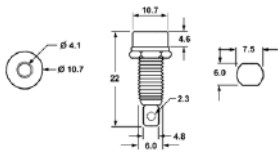
**TEST JACKS & PLUGS**

**CHASSIS BANANA JACKS**




**31-401-0** Black  
**31-400-2** Red and Black Pkg (2)  
**31-402-0** Red


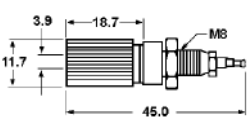
**CHASSIS BANANA JACKS**

Multi-colored chassis mounting Banana jacks.

**31-411-0** Black  
**31-414-0** Yellow  
**31-416-0** Blue  
**31-410-2** Red/Black  
**31-412-0** Red  
**31-415-0** Green  
**31-419-0** White  
**31-410-6** Asst. (6)

**BINDING POSTS**

**31-421-0** Black  
**31-420-2** Pkg (red & blk)  
**31-422-0** Red  
**31-425-0** Green

**LARGE BINDING POSTS**




Gold plated. 15A @ 125V AC  
**31-441-0** Black  
**31-443-2** Pkg (red & blk)  
**31-442-0** Red

**LOW PROFILE BINDING POSTS**




**31-431-0** Black  
**31-430-2** Pkg 1 red 1 black  
**31-432-0** Red

**DUAL BINDING POSTS**




Gold plated 30A  
**31-440-0** Bulk  
**31-440-1** Pkg

**BANANA PLUGS**




**31-461-0** Black  
**31-460-2** Pkg 1 red 1 black  
**31-462-0** Red

**COMPUTER ACCESSORIES**

**RS232 GENDER CHANGERS**




Low profile gender changers with appropriate mounting hardware.  
 Use -1 for Display Package (except 32-025-0)

Positions	male-male	male-female	fem-fem
9-pos.	<b>32-021-0</b>	<b>32-022-0</b>	<b>32-023-0</b>
15-pos.			<b>32-026-0</b>
25-pos.	<b>32-027-0</b>	<b>32-028-0</b>	<b>32-029-0</b>

**32-021HD-0** 15-pos., high density, male-male  
**32-023HD-0** 15-pos., high density, fem.-fem.

**MODULAR PHONE JACK TO RS232 ADAPTERS**



**Note:** RJ45(8C) types will accept RJ12(6C) plugs.  
 RJ12 = 6P/6C  
 RJ45 = 8P/8C

**32-321-0** RJ45(8C) - 9-position male  
**32-322-0** RJ45(8C) - 9-position female  
**32-323-0** RJ45(8C) - 15-position male  
**32-325-0** RJ45(8C) - 25-position male  
 Use -1 for Display Package



**60MHz SCOPE PROBE**

1.5 meter length  
Attenuation: 1x and 10x  
Input Resistance: 1 M and 10 M ohms  
Bandwidth: 60MHz(400V Peak to peak max.)  
60MHz(600V peak to peak max.)  
Compensation adjustment in BNC connector

**33-010-0** Bulk  
**33-010-1** Display Package



**100MHz SCOPE PROBE**

1.5 meter length  
Attenuation: 1x and 10x  
Input Resistance: 1 M and 10 M ohms  
Bandwidth: 10MHz (300V peak to peak max.)  
100MHz (600V peak to peak max.)  
Compensation adjustment in BNC connector  
Includes multi-accessory kit

**33-015-0** Bulk  
**33-015-1** Display Package

**METER REPLACEMENT LEAD**



Set of red & black test leads with banana plugs. Plugs & probes are molded.

**33-140-0** Set(bulk)  
**33-140-2** Package

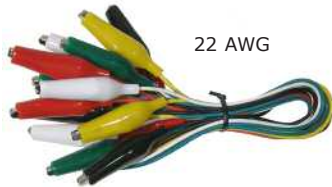
**CLIP LEAD SETS**



24 AWG

Set of 10 18" clip leads with 31mm insulated clips. 24 AWG stranded wires. Colors: 2 red, 2 black, 2 green, 2 yellow, 2 white

**33-210-0** Bulk set 10  
**33-210-10** Display Pkg



22 AWG

Set of 10 heavy duty 24" clip leads with 50mm clips. 5 different colors.

**33-220-0** Bulk set 10  
**33-220-10** Display Pkg

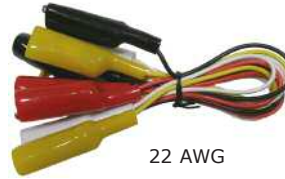
**NATURAL NYLON CABLE TIES**



High quality nylon cable ties available in bags of 1000 or smaller quantity display packages. Made of UL approved Nylon 66, 94V-2

	Length	Width	Load
<b>34-121-100</b>	3.5" (90mm)	2.4mm	8 Kg
<b>34-121-1000</b>			
<b>34-122-100</b>	4" (100mm)	2.5mm	8 Kg
<b>34-122-1000</b>			
<b>34-123-100</b>	5.5" (140mm)	4.0mm	18Kg
<b>34-123-1000</b>			
<b>34-124-100</b>	7.5" (188mm)	4.8mm	22Kg
<b>34-124-1000</b>			
<b>34-125-100</b>	8" (200mm)	4.8mm	22Kg
<b>34-125-1000</b>			
<b>34-126-50</b>	11" (300mm)	4.8mm	22kg
<b>34-126-1000</b>			

Note: -1000 are bulk packages of 1,000. Others are Display Packages.



22 AWG

Set of 4 heavy duty 30" clip leads with 50mm clips. Colors: black, red, yellow, white.

**33-230-0** Bulk set 4  
**33-230-4** Display Pkg

**SEIZER PROBES (55mm)**



**33-361-0** Black  
**33-362-0** Red  
**33-360-2** Pkg  
1 red 1 black

**32mm ALLIGATOR CLIPS**



**33-400-0** Bulk  
**33-400-10** Pkg (10)

**32mm INSULATED ALLIGATOR CLIPS**



Note: The 33-409-0 contains 10 clips in 5 colors, the -10 is a display package of 10.

**33-409-0** Bulk set 10  
**33-409-10** Pkg (10)

**40mm INSULATED ALLIGATOR CLIPS**



**33-411-0** Bulk black  
**33-412-0** Bulk red  
**33-419-10** Pkg 5 red/black

**51mm ALLIGATOR CLIPS (with screw)**



**33-430-0** Bulk  
**33-430-10** Pkg (10)

**51mm INSULATED ALLIGATOR CLIPS**



**33-431-0** Bulk black  
**33-432-0** Bulk red  
**33-439-10** Pkg 5 red/black

**NATURAL COLOR CABLE TIES**



Colored, high quality nylon cable ties made of UL approved Nylon 66, 94V-2. Load: 8Kg

	Length	Width	Color
<b>34-122BL-100</b>	4" (100mm)	2.5mm	Blue
<b>34-122BL-1000</b>	4" (100mm)	2.5mm	Blue
<b>34-122GN-100</b>	4" (100mm)	2.5mm	Green
<b>34-122GN-1000</b>	4" (100mm)	2.5mm	Green
<b>34-122RD-100</b>	4" (100mm)	2.5mm	Red
<b>34-122RD-1000</b>	4" (100mm)	2.5mm	Red
<b>34-122YL-100</b>	4" (100mm)	2.5mm	Yellow
<b>34-122YL-1000</b>	4" (100mm)	2.5mm	Yellow



## SCREW MOUNT CABLE TIES



Made of UL approved Nylon 66, 94V-2

	<u>Length</u>	<u>Width</u>	<u>Load</u>
<b>34-143-50</b>	6" (150mm)	3.6mm	22kg
<b>34-143-1000</b>			
<b>34-144-50</b>	8" (200mm)	4.8mm	22kg
<b>34-144-1000</b>			
<b>34-146-25</b>	11" (300mm)	4.8mm	22kg
<b>34-146-1000</b>			

Note: -1000 are bulk packages of 1,000.  
Others are Display Packages.

## WEATHER RESISTANT CABLE TIES



High quality black nylon cable ties suitable for outdoor use. Available in bags of 1000 or smaller quantity display packages. Made of UL approved Nylon 66, 94V-2. Temperature range: -10 deg. C to 85 deg. C

	<u>Length</u>	<u>Width</u>	<u>Load</u>
<b>34-131-100</b>	3.5" (90mm)	2.4mm	8 Kg
<b>34-131-1000</b>			
<b>34-132-100</b>	4" (100mm)	2.5mm	8 Kg
<b>34-132-1000</b>			
<b>34-133-100</b>	5.5" (140mm)	3.6mm	18Kg
<b>34-133-1000</b>			
<b>34-134-50</b>	7.5" (188mm)	4.8mm	22Kg
<b>34-134-1000</b>			
<b>34-135-50</b>	8" (200mm)	4.8mm	22Kg
<b>34-135-1000</b>			
<b>34-136-25</b>	11" (300mm)	4.8mm	22kg
<b>34-136-1000</b>			

Note: -1000 are bulk packages of 1,000.  
Others are Display Packages.

## HOOK & LOOP CABLE TIES



Adhesive Pads



<b>34-150-10</b>	6" Blk	Pkg. 10
<b>34-150-100</b>	6" Blk	Pkg. 100
<b>34-151-10</b>	6" Red	Pkg. 10
<b>34-151-100</b>	6" Red	Pkg. 100
<b>34-152-10</b>	6" Green	Pkg. 10
<b>34-152-100</b>	6" Green	Pkg. 100
<b>34-153-10</b>	6" Yellow	Pkg. 10
<b>34-153-100</b>	6" Yellow	Pkg. 100
<b>34-154-10</b>	6" Blue	Pkg. 10
<b>34-154-100</b>	6" Blue	Pkg. 100
<b>34-155-10</b>	8" Blk	Pkg. 10
<b>34-155-100</b>	8" Blk	Pkg. 100
<b>34-156-10</b>	8" Red	Pkg. 10
<b>34-156-100</b>	8" Red	Pkg. 100
<b>34-157-10</b>	8" Green	Pkg. 10
<b>34-157-100</b>	8" Green	Pkg. 100
<b>34-158-10</b>	8" Yellow	Pkg. 10
<b>34-158-100</b>	8" Yellow	Pkg. 100
<b>34-159-10</b>	8" Blue	Pkg. 10
<b>34-159-100</b>	8" Blue	Pkg. 100
<b>34-160-10</b>	Adhesive Pads	Pkg. 10
<b>34-160-50</b>	Adhesive Pads	Pkg. 50

All are Display Packages.

### IMPORTANT NOTE ABOUT NYLON CABLE TIES:

Nylon cable ties are affected by relative humidity. If the humidity is low the cable ties dry out, lose strength and could become brittle. If you experience this problem, adding a small amount of water (a few drops) to the bag will restore the flexibility and strength to the cable tie.



## CABLE TIE TOOL

Handy cable tie tensioner and cut-off tool. Made of very durable polymer material.

<b>34-900-0</b>	Bulk	<b>34-900-1</b>	Pkg.
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## CABLE TIE MOUNTS (SCREW TYPE)



Made of UL approved Nylon 66, 94V-2

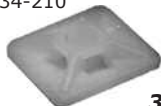


**34-200 #6 screw**      **34-201 .188" mtg. hole**

<b>34-200-25</b>	Pkg (25)	<b>34-200-100</b>	Bulk
<b>34-201-25</b>	Pkg (25)	<b>34-201-100</b>	Bulk

## ADHESIVE CABLE TIE MOUNTS

34-210



3/4" Sq.

1" Sq. adhesive #8 screw mount.



34-212

<b>34-210-25</b>	Pkg (25)	<b>34-210-100</b>	Bulk
<b>34-212-25</b>	Pkg (25)	<b>34-212-100</b>	Bulk

## NYLON CABLE CLAMPS

Made of UL approved Nylon 66, 94V-2



<b>34-300-100</b>	1/8" diameter	Disp. Pkg
<b>34-300-1000</b>	1/8" diameter	Bulk
<b>34-302-100</b>	1/4" diameter	Disp. Pkg
<b>34-302-1000</b>	1/4" diameter	Bulk
<b>34-304-100</b>	3/8" diameter	Disp. Pkg
<b>34-304-1000</b>	3/8" diameter	Bulk
<b>34-306-100</b>	1/2" diameter	Disp. Pkg.
<b>34-306-1000</b>	1/2" diameter	Bulk
<b>34-310-100</b>	3/4" diameter	Disp. Pkg.
<b>34-312-50</b>	1" diameter	Disp. Pkg.

## SPIRAL WRAP

Natural color polyethylene spiral wrap. 10 Meter rolls.



<b>34-410-10M</b>	1/8" - 1/2" dia.	10 meters
<b>34-420-10M</b>	1/4" - 2" dia.	10 meters
<b>34-440-10M</b>	3/8" - 3" dia.	10 meters
<b>34-450-10M</b>	1/2" - 4" dia.	10 meters

**FLEXIBLE GROMMET**



Natural color polyethylene flexible grommet. 10 M rolls.

<b>34-511-10M</b>	1/32" chassis thickness	10 meters
<b>34-512-10M</b>	1/16" chassis thickness	10 meters
<b>34-514-10M</b>	3/32" chassis thickness	10 meters
<b>34-515-10M</b>	1/8" chassis thickness	10 meters

**FLEXIBLE CONDUIT**



Black polypropylene flexible conduit. Split for easy wire insertion. **Note:** Lengths vary as shown below.

Dimensions shown below are inside diameters.

<b>34-521-300M</b>	1/4"	300 meters	Bulk
<b>34-521-30M</b>	1/4"	30 meters	Bulk
<b>34-521-10M</b>	1/4"	10 meters	Bulk
<b>34-522-200M</b>	3/8"	200 meters	Bulk
<b>34-522-30M</b>	3/8"	30 meters	Bulk
<b>34-522-10M</b>	3/8"	10 meters	Bulk
<b>34-523-200M</b>	1/2"	200 meters	Bulk
<b>34-523-30M</b>	1/2"	30 meters	Bulk
<b>34-523-10M</b>	1/2"	10 meters	Bulk
<b>34-524-100M</b>	3/4"	100 meters	Bulk
<b>34-524-30M</b>	3/4"	30 meters	Bulk
<b>34-524-10M</b>	3/4"	10 meters	Bulk
<b>34-525-100M</b>	7/8"	100 meters	Bulk
<b>34-525-30M</b>	7/8"	30 meters	Bulk
<b>34-525-10M</b>	7/8"	10 meters	Bulk
<b>34-526-50M</b>	1"	50 meters	Bulk
<b>34-526-10M</b>	1"	10 meters	Bulk

**HOLE PLUGS**



94V-2 black nylon hole plugs

<b>34-612-0</b>	for 3/8" hole	Bulk
<b>34-612-50</b>	for 3/8" hole	Pkg. 50
<b>34-613-0</b>	for 1/2" hole	Bulk
<b>34-613-50</b>	for 1/2" hole	Pkg. 50
<b>34-614-0</b>	for 5/8" hole	Bulk
<b>34-614-50</b>	for 5/8" hole	Pkg. 50
<b>34-615-0</b>	for 3/4" hole	Bulk
<b>34-615-25</b>	for 3/4" hole	Pkg. 25
<b>34-616-0</b>	for 7/8" hole	Bulk
<b>34-616-25</b>	for 7/8" hole	Pkg. 25
<b>34-617-0</b>	for 1" hole	Bulk
<b>34-617-25</b>	for 1" hole	Pkg. 25

**SNAP-IN BUSHINGS**



94V-2 black nylon snap-in bushings

<b>34-622-0</b>	for 3/8" hole	1/4" I.D.	Bulk
<b>34-622-50</b>	for 3/8" hole	1/4" I.D.	Pkg. 50
<b>34-623-0</b>	for 1/2" hole	5/16" I.D.	Bulk
<b>34-623-50</b>	for 1/2" hole	5/16" I.D.	Pkg. 50
<b>34-624-0</b>	for 5/8" hole	1/2" I.D.	Bulk
<b>34-624-50</b>	for 5/8" hole	1/2" I.D.	Pkg. 50
<b>34-625-0</b>	for 3/4" hole	9/16" I.D.	Bulk
<b>34-625-25</b>	for 3/4" hole	9/16" I.D.	Pkg. 25
<b>34-626-0</b>	for 7/8" hole	11/16" I.D.	Bulk
<b>34-626-25</b>	for 7/8" hole	11/16" I.D.	Pkg. 25
<b>34-627-0</b>	for 1" hole	3/4" I.D.	Bulk
<b>34-627-25</b>	for 1" hole	3/4" I.D.	Pkg. 25

**STRAIN RELIEF BUSHINGS**



94V-2 black nylon strain relief bushings

<b>34-630-0</b>	SPT-1 18/2 R/Angle .1" chassis	Bulk
<b>34-632-0</b>	SPT-1 18/2 .100" chassis	Bulk
<b>34-632-50</b>	SPT-1 18/2 .100" chassis	Pkg. 50
<b>34-634-0</b>	SVT 18/3 .100" chassis	Bulk
<b>34-634-50</b>	SVT 18/3 .100" chassis	Pkg. 50
<b>34-635-0</b>	SJT 18/3 .062" chassis	Bulk
<b>34-635-25</b>	SJT 18/3 .062" chassis	Pkg. 25

**STRAIN RELIEF INSTALLATION TOOL**



**34-901-1** Pkg.

**HEAT SHRINK TUBING ASSORTMENTS**



120 Pieces Black Heat Shrink in a reusable plastic box. Contains: 60x1.5mm, 35x2mm, 25x3mm, 15x5mm, 10x6mm, 10x10mm - 100mm long. Shrink ratio 2:1

**34-649-1** Pkg



110 6" pieces - 4 pieces of each color and size of 3/32", 1/8", 3/16", 1/4" and 3/8" + 2 piece of each color of 1/2". Packed in a durable plastic case.

**34-650-1** Pkg



120 Pieces Colored Heat Shrink in a reusable plastic box. Contains: 30x2mm, 25x3mm, 25x4mm, 20x5mm, 10x6mm, 10x10mm - 100mm long. Shrink ratio 2:1

**34-651-1** Pkg

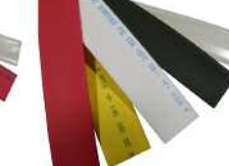
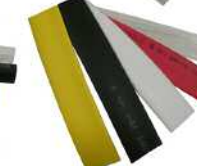


UL/CSA approved polyolefin tubing with 50% shrinkage. Available in five colors: Red, Black, White, Yellow and Clear. Attractive display package as well as assortments. 1 foot lengths.

**34-652-10**

**34-653-10**

**34-654-10**



**34-655-10**

**34-656-10**

**34-657-10**

<b>34-652-10</b>	3/32"	Assortment (2 pces each color)
<b>34-653-10</b>	1/8"	Assortment (2 pces each color)
<b>34-654-10</b>	3/16"	Assortment (2 pces each color)
<b>34-655-10</b>	1/4"	Assortment (2 pces each color)
<b>34-656-10</b>	3/8"	Assortment (2 pces each color)
<b>34-657-10</b>	1/2"	Assortment (2 pces each color)



**Material:**

Contact: Gold flash over nickel  
Housing: PBT & glass-fiber UL94V-0

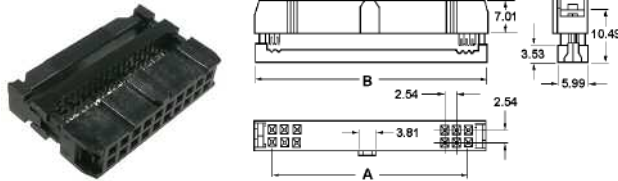
**CONNECTOR SPECIFICATIONS**

**Electrical:**

Contact res.: 15mΩ max.@1 Amp DC  
Insulation res.: 1000MΩ min.@500VDC  
Contact rating: 1 Amp

**.100" RIBBON CONNECTOR**

Suitable for .050" standard ribbon cable. Complete with cable strain reliefs. Standard with polarizing rib.



- 35-010-0 10-position \*
- 35-014-0 14-position \*
- 35-016-0 16-position \*
- 35-020-0 20-position \*
- 35-026-0 26-position \*
- 35-034-0 34-position \*
- 35-040-0 40-position \*
- 35-050-0 50-position \*

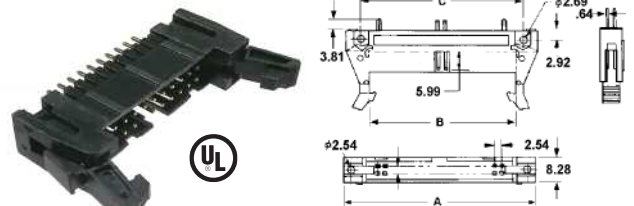


Pos	A	B
10	10.16	17.20
14	15.24	22.50
16	17.78	24.94
20	22.86	30.08
26	30.48	37.58
34	40.64	47.80
40	48.26	50.42
50	60.96	68.28

\* Use -2 for Display Package

**PC BOX CONNECTORS (with ejectors)**

Vertical PC mount connectors with ejector latch. Suitable for .050" standard ribbon cable.



35-710-0 10-position

Pos	A	B	C
10	32.00	17.96	21.59

**SHUNTS**



Short Shunt (open type)



Long Handle Shunt

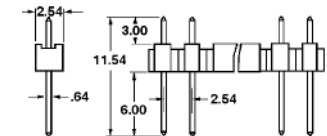
36-100-0 Bulk  
36-100-50 Pkg (50)

36-101-0 Black  
36-102-0 Red

**.100" PC HEADERS**

Breakaway headers. 40 and 80 position standard. Available in other sizes as special order. Gold plated.

**SINGLE ROW HEADERS**

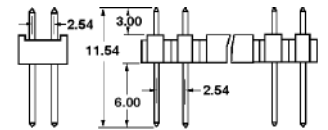


40-position single row. Gold Plated

36-140G-0 Bulk

36-140G-2 Pkg (2)

**DOUBLE ROW HEADERS**

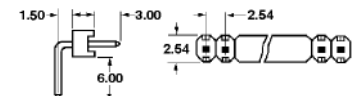


Double row (2 x 40 position) Gold plated.

36-280G-0 Bulk

36-280G-1 Pkg

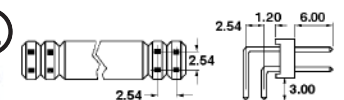
**R/A SINGLE ROW HEADERS**



Available in other sizes. Gold plated. 40-position right angle

36-340G-0 Bulk

**R/A DOUBLE ROW HEADERS**



Available in other sizes. Gold plated.

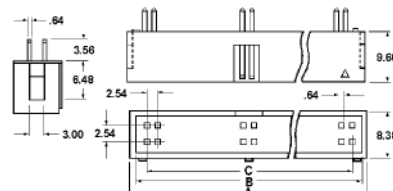
Double right angle (2 x 40-position)

36-480G-0 Bulk

36-480G-1 Pkg

**PC BOX CONNECTOR**

Vertical PC mount connectors mate with connectors above.

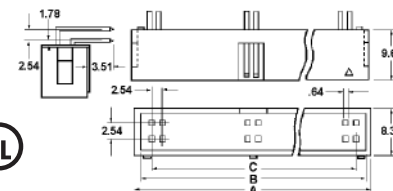


- 35-510-0 10-position
- 35-514-0 14-position
- 35-516-0 16-position
- 35-520-0 20-position
- 35-524-0 24-position
- 35-526-0 26-position
- 35-534-0 34-position
- 35-540-0 40-position
- 35-550-0 50-position

Pos	A	B	C
10	20.29	18.11	10.16
14	25.37	23.19	15.24
16	27.91	25.73	17.78
20	32.99	30.81	22.86
24	38.07	35.89	27.94
26	40.61	38.43	30.48
34	50.77	48.59	40.64
40	58.39	56.21	48.26
50	71.09	68.91	60.96

**RIGHT ANGLE PC BOX CONNECTOR**

Right angle PC connectors mate with connectors type 35-0xx



- 35-610-0 10-position
- 35-614-0 14-position
- 35-616-0 16-position
- 35-620-0 20-position
- 35-640-0 40-position

Pos	A	B	C
10	20.29	18.11	10.16
14	25.37	23.19	15.24
16	27.91	25.73	17.78
20	32.99	30.81	22.86
40	58.39	56.21	48.26

**RIBBON CABLE**



- 08-1410-100** 10-conductor
- 08-1414-100** 14-conductor
- 08-1416-100** 16-conductor
- 08-1420-100** 20-conductor
- 08-1425-100** 25-conductor
- 08-1426-100** 26-conductor
- 08-1434-100** 34-conductor
- 08-1440-100** 40-conductor
- 08-1450-100** 50-conductor

Grey jacket 28 AWG stranded .050" ribbon cable. Available in 100' spools only. Rated 300V 105 degrees C. UL and CSA listed.



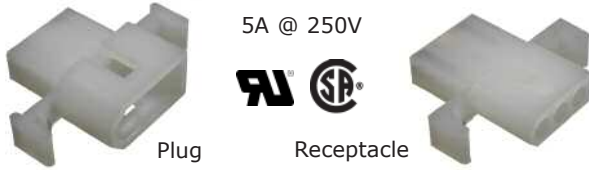
**RIBBON CABLE CUTTER**



Precision ground.

**84-404-1** Pkg.

**.062" CONTACT CONNECTORS**



5A @ 250V



Plug

Receptacle

Plug	Receptacle	Package	Contacts
<b>37-002-0</b>	<b>37-102-0</b>	<b>37-202-2</b>	2
<b>37-003-0</b>	<b>37-103-0</b>	<b>37-203-2</b>	3
<b>37-004-0</b>	<b>37-104-0</b>	<b>37-204-1</b>	4
<b>37-005-0</b>	<b>37-105-0</b>	<b>37-205-1</b>	5
<b>37-006-0</b>	<b>37-106-0</b>	<b>37-206-1</b>	6
<b>37-009-0</b>			9
<b>37-012-0</b>	<b>37-112-0</b>	<b>37-212-1</b>	12

Package contains 1 or 2 plugs, receptacles and contacts

**.093" CONTACT CONNECTORS**



Receptacle

250V



Plug

Plug	Receptacle	Package	Cont.
<b>37-302-0</b>	<b>37-402-0</b>	<b>37-502-2</b>	2 12A
<b>37-303-0</b>	<b>37-403-0</b>	<b>37-503-1</b>	3 12A
<b>37-304-0</b>	<b>37-404-0</b>	<b>37-504-1</b>	4 9A
<b>37-306-0</b>	<b>37-406-0</b>	<b>37-506-1</b>	6 9A
<b>37-309-0</b>	<b>37-409-0</b>	<b>37-509-1</b>	9 9A
<b>37-312-0</b>	<b>37-412-0</b>	<b>37-512-1</b>	12 7.5A

Package contains 1 or 2 plugs, receptacles and contacts

**.062" CONTACTS**



**37-910-0**

Female contacts 20-24 AWG

**37-900-0**

Male contacts 20-24 AWG

**.093" CONTACTS**



**37-940-0**

Female contacts 18-22 AWG

**37-930-0**

Male contacts 18-22 AWG



**EXTRACTION TOOLS**

**37-950-1** Pkg.

Extraction tool for .093" terminals. (37-930-0, 37-940-0)

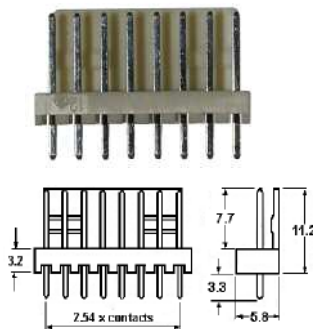
**37-951-1** Pkg.

Extraction tool for .062" terminals. (37-900-0, 37-910-0)

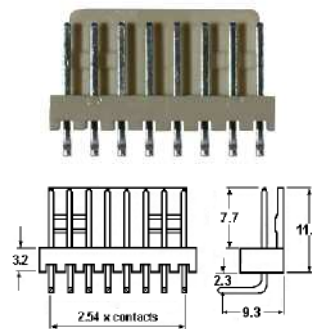
**.100" PC HEADERS**

**Straight** PC headers for 37-60X series. .64mm PC posts.

**Right angle** PC headers for 37-60X series. .64mm PC posts.

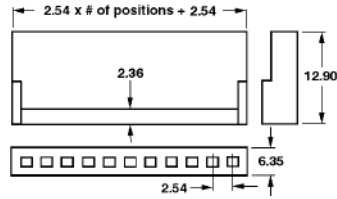


Pos	Bulk	Pkg.
2	<b>37-6202-0</b>	<b>-6</b>
3	<b>37-6203-0</b>	<b>-5</b>
4	<b>37-6204-0</b>	<b>-5</b>
5	<b>37-6205-0</b>	<b>-4</b>
6	<b>37-6206-0</b>	<b>-3</b>
8	<b>37-6208-0</b>	<b>-2</b>



Pos	Bulk	Pkg.
2	<b>37-6302-0</b>	<b>-5</b>
3	<b>37-6303-0</b>	<b>-4</b>
4	<b>37-6304-0</b>	<b>-3</b>
5	<b>37-6305-0</b>	<b>-2</b>
6	<b>37-6306-0</b>	<b>-2</b>
8	<b>37-6308-0</b>	<b>-2</b>

## .100" WIRE CONNECTORS



Pos	Bulk	Pkg.
2	<b>37-602-0</b>	<b>-5</b>
3	<b>37-603-0</b>	<b>-5</b>
4	<b>37-604-0</b>	<b>-4</b>
5	<b>37-605-0</b>	<b>-3</b>
6	<b>37-606-0</b>	<b>-3</b>
8	<b>37-608-0</b>	<b>-2</b>
9	<b>37-609-0</b>	<b>-2</b>

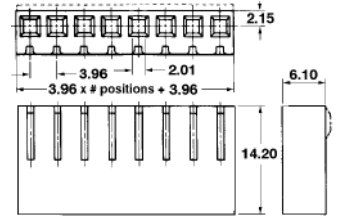
Each package includes contacts.  
-5 is 5 connectors + contacts.

## .100" WIRE CONTACTS



**37-960-0**  
Bulk 22-28  
AWG contacts

## .156" WIRE CONNECTORS



Package contains connectors  
and contacts.

Pos	Bulk	Pkg.
2	<b>37-702-0</b>	<b>-5</b>
4	<b>37-704-0</b>	<b>-5</b>
6	<b>37-706-0</b>	<b>-3</b>
8	<b>37-708-0</b>	<b>-2</b>

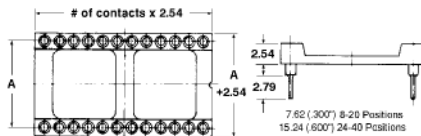
## .156" WIRE CONTACTS



**37-970-0** Bulk  
18-22AWG wire

## MACHINED CONTACT I.C. SOCKETS

94V-0 PBT insulator 15 micro inch gold plated contact area.



Pos.	Bulk	Pkg.
8-pos.	<b>39-108-0</b>	<b>-3</b>
14-pos.	<b>39-114-0</b>	<b>-2</b>
16-pos.	<b>39-116-0</b>	<b>-2</b>
40-pos.	<b>39-140-0</b>	<b>-1</b>

## DUAL WIPE STANDARD I.C. SOCKETS

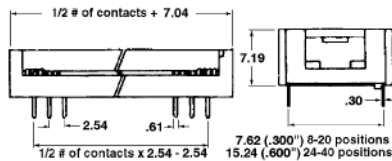
30% glass filled polyester UL94V-0 insulator.  
Contacts: phosphor bronze tin plated 100 microinches  
over 50 microinches nickel.



Pos.	Bulk	Pkg.
8-pos.	<b>39-008-0</b>	<b>-10</b>
14-pos.	<b>39-014-0</b>	<b>-6</b>
16-pos.	<b>39-016-0</b>	<b>-5</b>
18-pos.	<b>39-018-0</b>	<b>-4</b>
20-pos.	<b>39-020-0</b>	<b>-4</b>
28-pos.	<b>39-028-0</b>	<b>-3</b>
40-pos.	<b>39-040-0</b>	<b>-2</b>

## DIP RIBBON CONNECTORS

UL94V-0 40% glass fibre PBT, 10 micro inches gold plating.

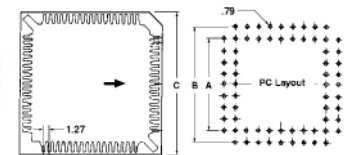


Pos.	Bulk
14-pos.	<b>39-214-0</b>
20-pos.	<b>39-220-0</b>



## PLCC SOCKETS

94V-0 glass filled thermoplastic, tin plated contacts.



Pos	A	B	C
<b>68</b>	.800	1.000	1.26

Pos.	Bulk	Pkg.
68-pos.	<b>39-368-0</b>	<b>-1</b>

See the tool section starting on Page 85 for crimp tools and insertion/extraction tools for the crimp contacts shown on this page.

Visit our Web Site at  
<http://www.mode-elec.com>





## STANDARD SUB-MINIATURE SWITCHES 6 Amps @ 125VAC

**41-230-0** SPST on-off  
**41-233-0** SPDT on-on  
**41-235B-0** SPDT on-off-on  
**41-237B-0** SPDT (on)-off-(on)  
**41-243-0** DPDT on-on

CSA  
 UL/CSA  
 CSA  
 UL/CSA



**41-245-0** DPDT on-off-on  
**41-251-0** 3PDT on-on  
**41-252-0** 3PDT on-off-on  
**41-253-0** 4PDT on-on  
**41-255-0** 4PDT on-off-on

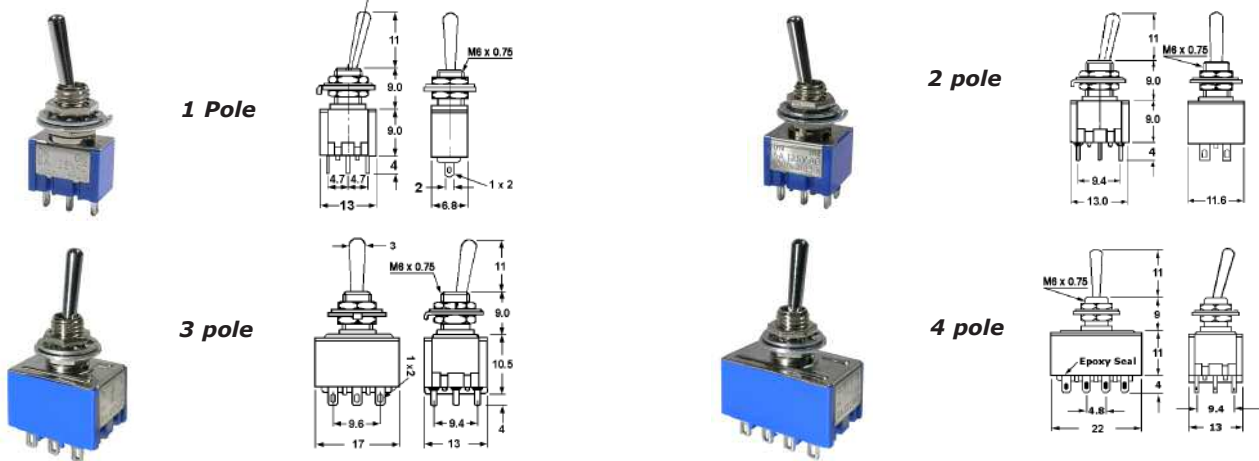
CSA

Use -1 for Display Package

Use -1 for Display Package

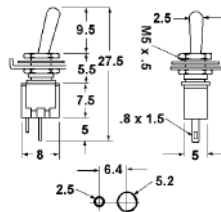
( ) Denotes momentary contact

As noted



## ULTRA MINIATURE TOGGLE SWITCHES

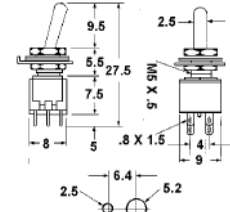
3A @ 125VAC



**41-310-0** SPST on-off  
**41-323-0** DPDT on-on  
 Use -1 for Display Package



Double Pole



**MODE ELECTRONICS LTD.**  
**211 - 2999 UNDERHILL AVE.,**  
**BURNABY, B.C., CANADA, V5A 3C2**  
**Phone: 604-435-6633**  
**Fax: 604-435-8890**  
**Toll Free: 1-800-663-4992**  
**Web Site: www.mode-elec.com**

Visit our Web Site at  
<http://www.mode-elec.com>

**COLORED VINYL CAPS**

For Sub-Miniature Toggle Switches



- 41-901-0** Black
- 41-902-0** Red
- 41-909-0** White

**WATERPROOF BOOTS**

M6.3 (1/4-40) size for UNC thread switches -M6 for metric switches.



- 41-899-0** M6.3 x .635 thread
- 41-899-3** Package (3)
- 41-900-0** M6 x 0.75 thread
- 41-900-3** Package (3)

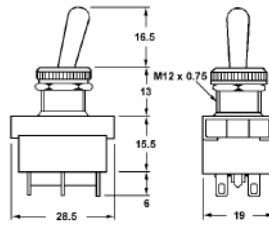
**WATERPROOF BOOTS**

Premium 1/4-40 waterproof boot.



- 41-900T-0** 1/4-40 thread
- 41-900T-3** Package (3)

**STANDARD TOGGLE SWITCHES**

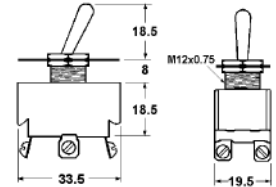


**10 amp @ 125VAC** (6 amp @ 250VAC)  
Solder terminals and dress panel nut.

- 42-115-0** SPDT on-off-on
- Use -1 for Display Package



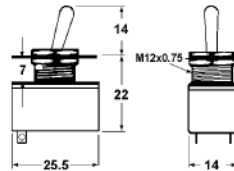
**6A @ 125V**



- 42-225-0** DPDT on-off-on
- 42-225-1** Display Package



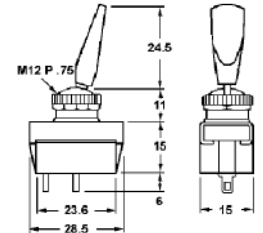
**MAX**  
**4A @ 125V**  
**2A @ 250V**



- 42-210-0** SPST on-off
- 42-210-1** Display Package



**10A @ 125V**  
**6A @ 250V**

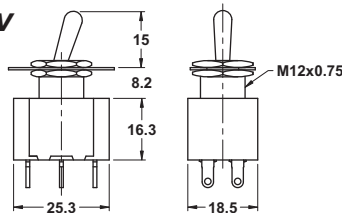


Black plastic bat handle. Solder terminals.

- 42-310-0** SPST on-off
- 42-310-1** Display Package



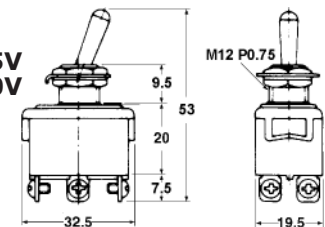
**6A @ 125V**



- 42-223-0** DPDT on-on
- 42-223-1** Display Package



**15A @ 125V**  
**10A @ 250V**



Screw terminals

- 42-413-0** SPDT on-on
- 42-415-0** SPDT on-off-on
- 42-423-0** DPDT on-on
- 42-425-0** DPDT on-off-on
- Use -1 for Display Package

**SWITCH ACCESSORIES**

**WATERPROOF BOOTS**



- 42-900T-0** Bulk
- 42-900T-1** Pkg.

For M12  
P0.75  
thread

**SWITCH PLATE**



On-off switchplate  
for M12 barrel

- 42-901-0** Bulk

**RED TOGGLE GUARD**



Safety Cover for  
toggle switch.  
12mm mounting size.

- 42-903-0** Bulk
- 42-903-1** Pkg.



**COMMON PARTS (USED ON ALMOST EVERY SWITCH)**



**COUPLER**

This coupler locks onto the actuator and is used for mounting the switch modules and the lamp module.

**44-700-0** Bulk



**N/O SWITCH**

Normally open switch module has the following CSA/UL ratings:  
6.0A/120VAC 2.2A/120VDC 1.2A/600VDC  
3.0A/240VAC 1.1A/240VDC  
1.5A/480VAC 0.4A/480VDC

**44-701-0** Bulk



**N/C SWITCH**

Normally closed switch module has the following CSA/UL ratings:  
6.0A/120VAC 2.2A/120VDC 1.2A/600VDC  
3.0A/240VAC 1.1A/240VDC  
1.5A/480VAC 0.4A/480VDC

**44-702-0** Bulk



**LAMP MODULE**

This module is used with any lit style actuator and will accommodate a T 3 1/4 bayonet base incandescent or LED lamp.

**44-703-0** Bulk

**ACTUATORS (NO LIGHT)**



Unlit momentary contact flush button (22mm dia.) actuator available in red and green.

**44-705R-0** Red  
**44-705G-0** Green



Unlit momentary contact raised button actuator with separate red, green and yellow caps (22mm dia.). Waterproof.

**44-706-0** Actuator only  
**44-706R-0** Red cap  
**44-706G-0** Green cap  
**44-706Y-0** Yellow cap



Unlit momentary contact actuator with a 40mm diameter red button.

**44-708R-0** Bulk



Unlit panic stop actuator - 36mm locking button - must twist the black ring behind the red button to release.

**44-710R-0** Bulk



Red lever actuator: 2-position lever actuator can activate either a normally open or normally closed switch.

**44-729-0** 2-position lever



Green lever actuator: 2-position lever actuator can activate either a normally open or normally closed switch.

**44-729G-0** 2-position lever



Red lever actuator: 3-position lever actuator. Left or right position can activate either a normally open or normally closed switch. Center position off.

**44-730-0** 3-position lever



Key actuator: 3-position key actuator. Left or right position can activate either a normally open or normally closed switch. Center position off.

**44-740-0** Bulk

**ACTUATORS (LIGHTED by 44-703-0)**



Illuminated emergency stop (latching) push button actuator, twist to release (reset)

**44-712R-0** Red



Lighted momentary contact flush button (22mm dia.) available in red and green.

**44-720R-0** Red  
**44-720G-0** Green



Lighted momentary contact raised button actuator with separate red, green and yellow caps (40mm dia.). Waterproof.

**44-706-0** Actuator only  
**44-714R-0** Red cap  
**44-714G-0** Green cap  
**44-714Y-0** Yellow cap



Lighted momentary contact raised button actuator with separate red, green and yellow caps (22mm dia.). Waterproof.

**44-706-0** Actuator only  
**44-721R-0** Red cap  
**44-721G-0** Green cap  
**44-721Y-0** Yellow cap





Lighted alternate action flush button (22mm dia.) actuator (available in red with white circle only).

**44-725R-0** Bulk



Lighted alternate action 36mm large button actuator available with separate red and green caps.

**44-727-0** Actuator only  
**44-727R-0** Red cap  
**44-727G-0** Green cap

## PILOT LAMPS

Pilot lamps that go with the 44-700-0 Coupler and 44-703-0 Lamp Module.



**44-740G-0**  
Green Flat Lens (29mm dia.)  
**44-740R-0**  
Red Flat Lens (29mm dia.)  
**44-740Y-0**  
Yellow Flat Lens (29mm dia.)



**44-741G-0**  
Green Tapered Lens (22.5mm dia.)  
**44-741R-0**  
Red Tapered Lens (22.5mm dia.)  
**44-741Y-0**  
Yellow Tapered Lens (22.5mm dia.)



**44-742G-0**  
Green Lens (29.6mm dia.)  
**44-742R-0**  
Red Lens (29.6mm dia.)  
**44-742Y-0**  
Yellow Lens (29.6mm dia.)

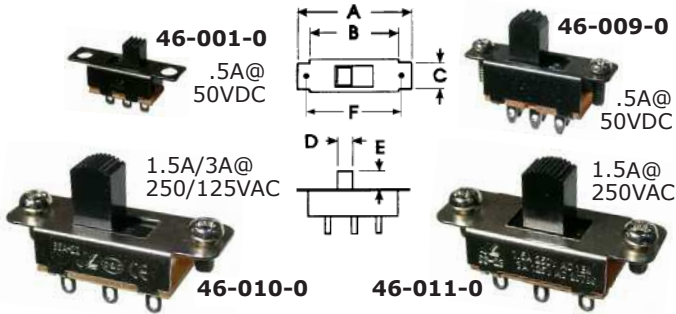
All switch actuators conform to IP65 rating (Ingress Protection Rating) - they are dust tight and water tight.

All these items when used as an assembly are UL, CSA, TUV and CE approved.

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211 - 2999 UNDERHILL AVE.,  
BURNABY, B.C., CANADA, V5A 3C2  
Phone: 604-435-6633  
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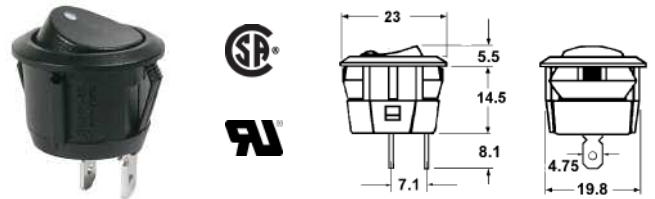
**SLIDE SWITCHES**



Dimensions are in mm.

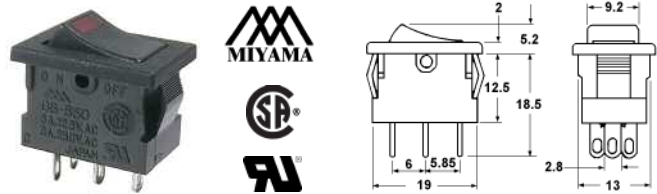
Bulk Part #	Poles	Switch	A	B	C	D	E	F
46-001-0	SPDT	on-on	19.5	11.5	4.8	2.9	4	15
46-009-0	DPDT	on-on	23.3	15.6	6.3	4.9	7	19
46-010-0	DPDT	on-on	35	22.3	11	6.6	10	28.5
46-011-0	DPDT	on-off-on	35	22.3	11	6.6	10	28.5

Use -2 for Display Package



Single hole snap-in mount. **16A @ 125VAC (10A @ 250VAC)**

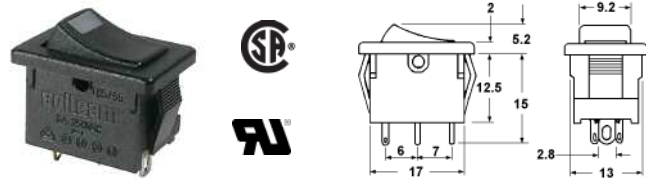
**46-100J-0** SPST on-off black button white dot  
Use -1 for Display Package



Snap-in mounting **5A @ 125VAC(3A/250V)**.

**LED requires 20mA DC external limit resistor.**

**46-140-0** SPST on-off red LED indicator  
Use -1 for Display Package

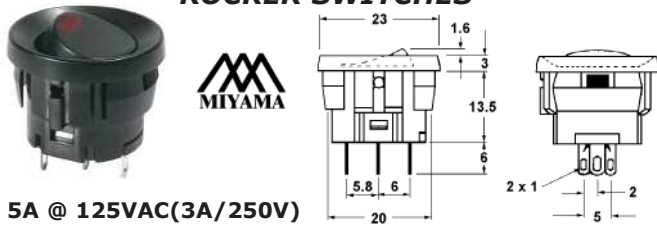


Snap-in mounting **10A @ 125VAC(6A/250V)**.

**LED requires 20mA DC external limit resistor.**

**46-140J-0** SPST on-off red LED indicator  
Use -1 for Display Package

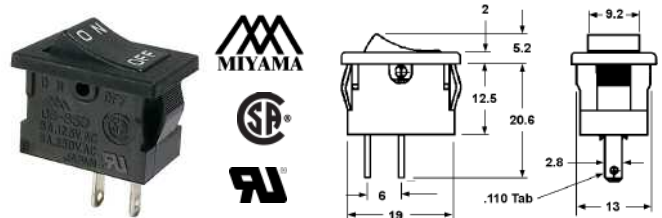
**ROCKER SWITCHES**



**5A @ 125VAC(3A/250V)**

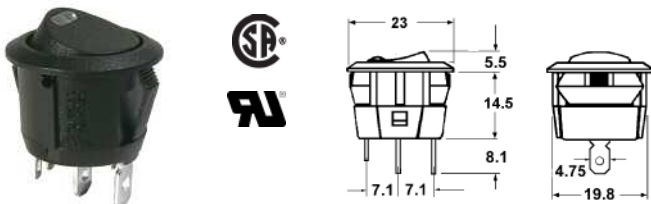
Single hole snap-in mount with LED indicator.  
**LED requires 20mA DC external limit resistor.**  
See Page 50 to determine suitable resistor value.

- 46-102-0** SPST on-off black button red LED
  - 46-103-0** SPST on-off black button green LED
  - 46-104-0** SPST on-off black button yellow LED
- Use -1 for Display Package



Snap-in mounting **5A @ 125VAC (3A/250V)**.  
Available with white dot or ON-OFF markings.

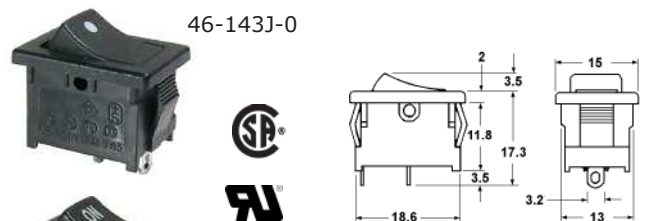
- 46-143-0** SPST on-off black button white dot
  - 46-144-0** SPST on-off black button ON-OFF
- Use -1 for Display Package



**16A @ 125VAC(10A/250V)**

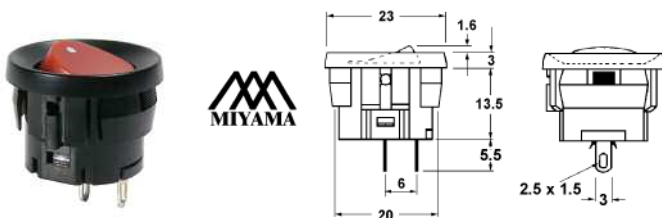
Single hole snap-in mount with LED indicator.  
**LED requires 20mA DC external limit resistor.**  
See Page 50 to determine suitable resistor value.

**46-102J-0** SPST on-off black button red LED  
Use -1 for Display Package



Snap-in mounting

**10A @ 125VAC/ (6A/250V)**



Single hole snap-in mount. **5A @ 125VAC (3A @ 250VAC)**

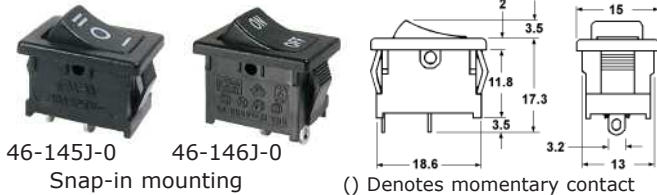
- 46-100-0** SPST on-off black button white dot
  - 46-101-0** SPST on-off red button white dot
- Use -1 for Display Package



46-143J-0

- 46-143J-0** SPST on-off black button white dot
  - 46-144J-0** SPST on-off black button ON-OFF
- Use -1 for Display Package

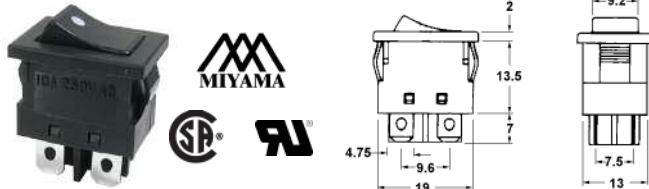
# ROCKER & MISC. SWITCHES



46-145J-0 46-146J-0  
Snap-in mounting

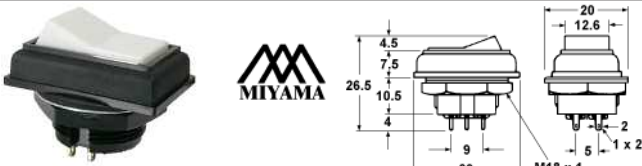
( ) Denotes momentary contact

**46-145J-0** SPDT on-off-on black Int. Symbol  
**46-146J-0** SPST (on)-off black button ON-OFF  
Use -1 for Display Package



Snap-in mounting **10A @ 250VAC**

**46-150-0** DPST on-off black button white dot  
**46-151-0** DPST on-off black button ON-OFF  
Use -1 for Display Package



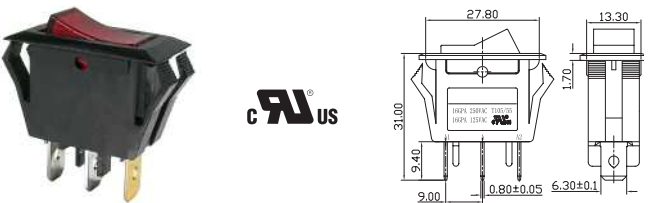
Round 18mm diameter mounting hole **6A @ 125VAC**

**46-170-0** SPST on-off white button  
**46-183-0** DPDT on-on white button  
Use -1 for Display Package



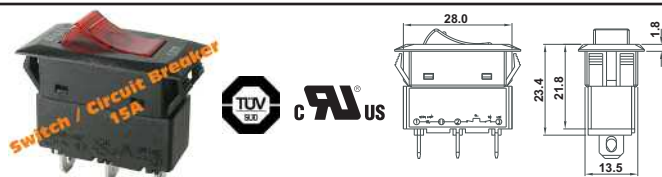
Snap-in mounting with neon indicator. **15A @ 125VAC.**  
Mtg. hole: 30.2 x 14.2mm

**46-190-0** SPST on-off amber rocker  
**46-192-0** SPST on-off red rocker  
Use -1 for Display Package



Snap-in mounting with neon indicator. **16A @ 125VAC.**  
Mtg. hole: 29.1 x 13.5mm

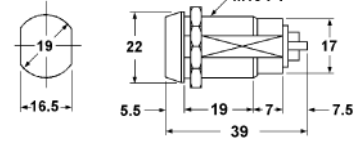
**46-192J-0** SPST on-off red rocker  
Use -1 for Display Package



Snap-in mounting circuit breaker/switch (SPST) with neon indicator. **7-16A @ 125/250VAC.**  
Mtg. hole: 30.2 x 14.2mm

**46-195-0** Bulk **46-195-1** Pkg

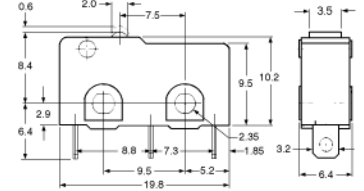
## KEY SWITCHES



SPST Key removable in either position.  
**4 A @ 125VAC**

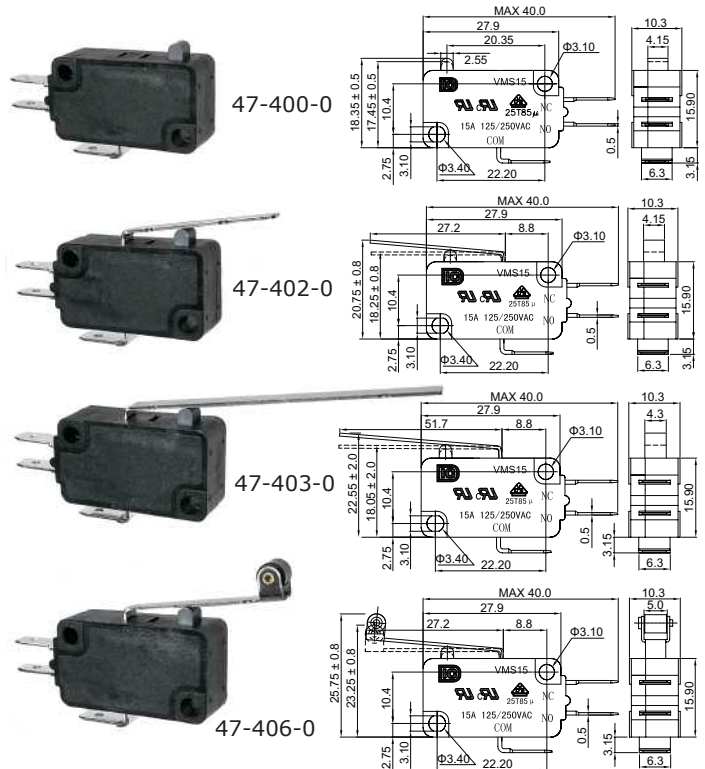
**47-282-0** Bulk assorted keys  
**47-282-1** Pkg assorted keys  
**47-282K-0** Bulk same key  
**47-282-KEY** Blank Key

## MICRO SWITCHES



**5A @ 125VAC (3A/250V) N/O and N/C contacts.**  
Life: 200,000 operations (full load)  
Contact resistance: 30mΩ maximum  
Insulation resistance: 100MΩ min. (500VDC)  
Dielectric strength: 1000VAC for 1 minute

**47-300-0** Bulk **47-300-1** Package



**15A @ 125VAC or 250VAC**

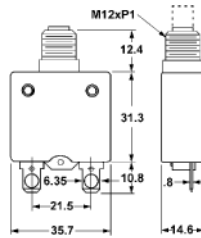
**Contact resistance:** ≤100mΩ (Initial)  
**Insulation resistance:** ≥100MΩ @ 500VDC (Initial)  
**Withstand Voltage:** 1500VAC for 1 minute (Initial)  
**Mechanical Life:** 100,000 Cycles  
**Electrical Life:** 10,000 Cycles  
**Operating temperature:** -20°C to 85°C

**47-400-0** No actuator  
**47-402-0** 27.2mm actuator  
**47-403-0** 51.7mm actuator  
**47-406-0** 27.2mm roller actuator  
Use -1 for Display Package

**CIRCUIT BREAKERS**



**125VAC  
50VDC**



- |                 |     |                 |     |
|-----------------|-----|-----------------|-----|
| <b>47-503-0</b> | 3A  | <b>47-520-0</b> | 20A |
| <b>47-505-0</b> | 5A  | <b>47-530-0</b> | 30A |
| <b>47-515-0</b> | 15A |                 |     |

Use -1 for Display Package

**MAGNETIC SWITCHES**



Magnetic reed switch for security alarms. Has normally open and normally closed switch contacts. Screw terminals. 30VDC@250ma

- |                 |      |
|-----------------|------|
| <b>47-600-0</b> | Bulk |
| <b>47-600-1</b> | Pkg. |

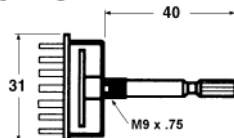
**FOOT SWITCHES**



- Cast alum. base and guard
- 15Amps @250VAC
- 1 N/C and 1 N/O
- Cable gland included

**47-620-0** Bulk

**ROTARY SWITCHES**



.3 A @ 30VDC non-shorting. Knurled shaft with split.

**48-514-0** 4 pole 3 position  
Use -1 for Display Package

**RELAYS**

**AUTOMOTIVE RELAYS**

Coil Resistance: 90 Ω ± 8%  
Rated Current: 40A@12VDC

**50-835H-0** SPST 12VDC

Coil Resistance: 90 Ω ± 8%  
Rated Current: 30A@12VDC

**50-836H-0** SPDT 12VDC  
Use -1 for Display Package

Coil Resistance: 360 Ω ± 8%  
Rated Current: 20A@24VDC

**50-837H-0** SPST 24VDC



Socket Housing for Auto Relays

c/w 5 terminals

**50-920-0** Auto Relay Socket  
Use -1 for Display Package



Socket for 50-06x and 50-09x relays shown below. Comes with relay hold down spring cup.

**50-901-0** DPDT PC Mount  
Use -1 for Display Package

Socket for 50-06x and 50-09x relays shown below.



50-911-0

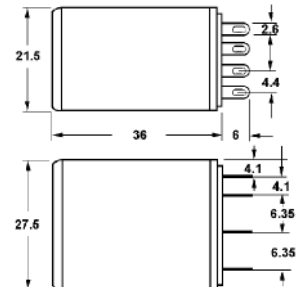


50-912-0

- |                 |      |             |
|-----------------|------|-------------|
| <b>50-911-0</b> | DPDT | Screw Term. |
| <b>50-912-0</b> | 4PDT | Screw Term. |

Use -1 for Display Package

**DPDT & 4PDT 5 AMP RELAYS**



- |                        |                    |
|------------------------|--------------------|
| Contact Resistance:    | 50mΩ max.          |
| Operate Time:          | 25ms max.          |
| Release Time:          | 25ms max.          |
| Insulation Resistance: | 100MΩ min.         |
| Mechanical Life:       | 10M cycles         |
| Electrical Life:       | 100K cycles        |
| Resistive Load:        | 5A@28VDC or 250VAC |

Part Number	Circuitry	Oper. Volt.	Coil Res.
<b>50-063-0</b>	DPDT	12VDC	160 Ω
<b>50-064-0</b>	DPDT	24VDC	650 Ω
<b>50-093-0</b>	4PDT	12VDC	160 Ω

Use -1 for Display Package

**Visit our Web Site at**  
**<http://www.mode-elec.com>**

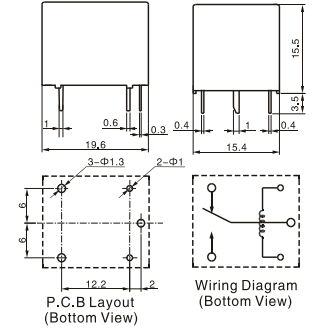




Octal Socket for 50-13x and 50-16x shown above.

**50-910-0** Octal Socket  
Use -1 for Display Package

**10 AMP PC RELAYS**

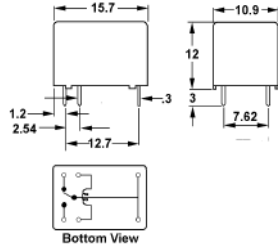


Contact Resistance: 50mΩ max.  
Operate Time: 8ms max.  
Release Time: 5ms max.  
Insulation Resistance: 100MΩ min.  
Mechanical Life: 10M cycles  
Electrical Life: 100K cycles

Part Number	Circuitry	Oper. Volt.	Coil Res.
<b>50-530-0</b>	SPDT	5VDC	70 Ω
<b>50-533-0</b>	SPDT	12VDC	400 Ω

Use -1 for Display Package

**3 AMP PC RELAYS**

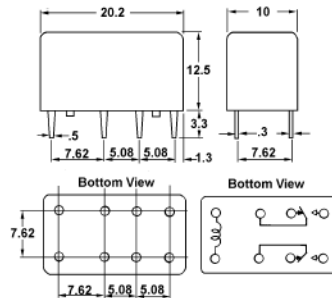


Contact Resistance: 100mΩ max.  
Operate Time: 10ms max.  
Release Time: 5ms max.  
Insulation Resistance: 100MΩ min.  
Mechanical Life: 10M cycles  
Electrical Life: 500K cycles  
Resistive Load: 3A@28VDC or 120VAC

Part Number	Circuitry	Oper. Volt.	Coil Res.
<b>50-333-0</b>	SPDT	12VDC	700 Ω

Use -1 for Display Package

**1 AMP PC RELAYS (16-PIN DIP)**



Contact Resistance: 50mΩ max.  
Operate Time: 10ms max.  
Release Time: 4ms max.  
Insulation Resistance: 100MΩ min.  
Mechanical Life: 100M cycles  
Electrical Life: 100K cycles  
Resistive Load: 1A@30VDC or .3A@125VAC

Part Number	Circuitry	Oper. Volt.	Coil Res.
<b>50-430-0</b>	2C	5VDC	125 Ω
<b>50-433-0</b>	2C	12VDC	720 Ω

Use -1 for Display Package

**MODE ELECTRONICS LTD.**  
 211 - 2999 UNDERHILL AVE.,  
 BURNABY, B.C., CANADA, V5A 3C2  
 Phone: 604-435-6633  
 Fax: 604-435-8890  
 Toll Free: 1-800-663-4992  
 Web Site: www.mode-elec.com

**Visit our Web Site at**  
<http://www.mode-elec.com>

**PLASTIC PROJECT BOXES**



Black plastic project boxes.

Outside dimensions shown



Inside dimensions shown

**53-520-0** 82L x 54W x 31H (plastic cover)  
**53-522-0** 83L x 54W x 30H (alum. cover)  
 Use -1 for Display Package

**53-541-0** 99L x 49W x 40H grey ABS plastic  
**53-551-0** 125L x 60W x 40H grey ABS plastic  
**53-571-0** 145L x 85W x 50H grey ABS plastic  
**53-581-0** 180L x 110W x 60H grey ABS plastic  
 Use -1 for Display Package

Light grey ABS (UL94HB) project boxes. Self tapping screws included



**53-530H-0** 100L x 50W x 25H grey ABS plastic  
**53-535H-0** 112L x 62W x 31H grey ABS plastic  
**53-551H-0** 120L x 65W x 40H grey ABS plastic  
**53-571H-0** 150L x 80W x 50H grey ABS plastic  
**53-581H-0** 191L x 110W x 61H grey ABS plastic  
 Use -1 for Display Package

**POLYPROPYLENE BOXES**



6 comp.  
 Dimensions [mm]:  
 275 x 182 x 40  
**53-916-0** Bulk



18 comp.  
 Dimensions [mm]:  
 275 x 182 x 40  
**53-918-0** Bulk

**KNOBS**



54-122-0



54-218-0



54-217-0



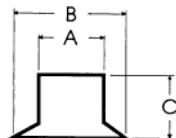
54-228-0



54-227-0

Part Number	A	B	C	Shaft
<b>54-122-0</b>	15mm	15mm	12mm	6.35mm
<b>54-217-0</b>	18mm	23mm	15mm	6.35mm
<b>54-218-0</b>	27mm	33mm	17mm	6.35mm
<b>54-227-0</b>	19mm	25mm	15mm	6.35mm
<b>54-228-0</b>	26mm	32mm	15mm	6.35mm
<b>54-232-0</b>	16mm	20mm	12mm	6.35mm
<b>54-234-0</b>	24mm	27mm	16mm	6.35mm
<b>54-278-0</b>	23mm	37mm	15mm	6.35mm
<b>54-279-0</b>	23mm	37mm	15mm	6.35mm
<b>54-374-0</b>	30mm	Pointer Knob		6.35mm

Use -2 for Display Package 6.35mm = 1/4"



Dimension Drawing



54-232-0



54-234-0



54-278-0



54-279-0



54-374-0

## METRIC HARDWARE



The attractive clear plastic re-usable display packs. Packs contain 100 pieces are designated with -100 after the part number. For example 54-400-100 specifies a display package of 100. Bulk hardware is only available in 1000 pieces or more.



Nickel plated round phillips head bolts

2mm	2.6mm	3mm	4mm	Length
54-400-0 54-400-100	54-410-0 54-410-100	54-420-0 54-420-100	54-430-0 54-430-100	6mm
54-401-0 54-401-100	54-411-0 54-411-100	54-421-0 54-421-100	54-431-0 54-431-100	8mm
54-402-0 54-402-100	54-412-0 54-412-100	54-422-0 54-422-100	54-432-0 54-432-100	10mm
54-403-0 54-403-100	54-413-0 54-413-100	54-423-0 54-423-100	54-433-0 54-433-100	12mm
	54-414-0 54-414-100	54-424-0 54-424-100	54-434-0 54-434-100	14mm
54-405-0 54-405-100	54-415-0 54-415-100	54-425-0 54-425-100	54-435-0 54-435-100	16mm



Nickel plated nuts

2mm	2.6mm	3mm	4mm
54-406-0 54-406-100	54-416-0 54-416-100	54-426-0 54-426-100	54-436-0 54-436-100



Nickel plated flat washers

2mm	2.6mm	3mm	4mm
54-407-0 54-407-100	54-417-0 54-417-100	54-427-0 54-427-100	54-437-0 54-437-100



Nickel plated split and internal star lockwashers

2mm	2.6mm	3mm	4mm	Type
54-408-0 54-408-100	54-418-0 54-418-100	54-428-0 54-428-100	54-438-0 54-438-100	Int. Star
54-409-0 54-409-100	54-419-0 54-419-100	54-429-0 54-429-100	54-439-0 54-439-100	Split



54-444-1

## METRIC HARDWARE KITS

### 54-440-1 2mm Hardware Kit

Contains: 180 pieces of assorted 2mm bolts, nuts, flat washers and lockwashers. Bolts provided are 6, 8, 10 and 12mm lengths. In a clear polystyrene compartmented box. (not shown).

### 54-441-1 2.6mm Hardware Kit

Contains: 180 pieces of assorted 2.6mm bolts, nuts, flat washers and lockwashers. Bolts provided are 6, 8, 10 and 12mm lengths. In a clear polystyrene compartmented box. (not shown).

### 54-442-1 3mm Hardware Kit

Contains: 180 pieces of assorted 3mm bolts, nuts, flat washers and lockwashers. Bolts provided are 6, 8, 10 and 12mm lengths. In a clear polystyrene compartmented box. (not shown).

### 54-443-1 4mm Hardware Kit

Contains: 140 pieces of assorted 4mm bolts, nuts, flat washers and lockwashers. Bolts provided are 6, 8, 10 and 12mm lengths. In a clear polystyrene compartmented box. (not shown).

### 54-444-1. Comprehensive hardware assortment.

Contains: 1200 assorted pieces of 2, 2.6 and 3mm hardware in a durable 18 compartment polypropylene box (53-918-0).

## ENGLISH/METRIC CONVERSIONS

### LENGTH

Inch	X	25.40	=	Millimeters
Millimeters	X	0.03937	=	Inches
Feet	X	0.3048	=	Meters
Meters	X	3.281	=	Feet
Miles	X	1.609	=	Kilometers
Kilometers	X	0.6214	=	Miles

UNC Hardware on next page.

**UNC HARDWARE**



The attractive clear plastic re-usable display packs. Packs contain 100 pieces are designated with **-100** after the part number. For example 54-400-100 specifies a display package of 100. Bulk hardware is only available in 1000 pieces or more.



Nickel plated round phillips head bolts

	2-56	4-40	6-32	8-32	10-32	Length
	54-510-0 54-510-100	54-520-0 54-520-100	54-530-0 54-530-100	54-540-0 54-540-100		1/4"
			54-531-0 54-531-100	54-541-0 54-541-100		3/8"
	54-512-0 54-512-100	54-522-0 54-522-100	54-532-0 54-532-100	54-542-0 54-542-100	54-552-0 54-552-100	1/2"
			54-533-0 54-533-100			5/8"
		54-524-0 54-524-100	54-534-0 54-534-100	54-544-0 54-544-100	54-554-0 54-554-100	3/4"



Nickel plated nuts

	#2	#4	#6	#8	#10
	54-516-0 54-516-100	54-526-0 54-526-100	54-536-0 54-536-100	54-546-0 54-546-100	54-556-0 54-556-100



Nickel plated flat washers

	#2	#4	#6	#8	#10
	54-517-0 54-517-100	54-527-0 54-527-100	54-537-0 54-537-100	54-547-0 54-547-100	54-557-0 54-557-100



Nickel plated internal star and split washers

	#2	#4	#6	#8	#10	Type
	54-518-0 54-518-100	54-528-0 54-528-100	54-538-0 54-538-100	54-548-0 54-548-100	54-558-0 54-558-100	Int. Star
	54-519-0 54-519-100	54-529-0 54-529-100	54-539-0 54-539-100	54-549-0 54-549-100	54-559-0 54-559-100	Split

**UNC HARDWARE KITS**



54-565-1

**54-561-1**

**2-56 Hardware assort.**  
Contains: 260 pieces of assorted 2-56 bolts, nuts,

flat washers and lock washers. Bolt lengths provided are 1/4" and 1/2". In clear polystyrene box with 6 separate compartments. (not shown).

**54-562-1 4-40 Hardware assortment**

Contains: 220 pieces of assorted 4-40 bolts, nuts, flat washers and lock washers. Bolt lengths provided are 1/4", 1/2" and 3/4". In clear polystyrene box with 6 separate compartments. (not shown).

**54-563-1 6-32 Hardware assortment**

Contains: 220 pieces of assorted 6-32 bolts, nuts, flat washers and lock washers. Bolt lengths provided are 1/4", 3/8", 1/2", 5/8" and 3/4". In a clear polystyrene box with 6 separate compartments. (not shown).

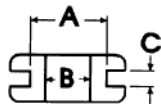
**54-564-1 8-32 Hardware assortment**

Contains: 220 pieces of assorted 8-32 bolts, nuts, flat washers and lock washers. Bolt lengths provided are 1/4", 3/8", 1/2" and 3/4". In a clear polystyrene box with 6 separate compartments. (not shown).

**54-565-1 Comprehensive hardware assortment.**

Contains: 1175 pieces of assorted 2-56, 4-40, 6-32, and 8-32 hardware. In a durable 18 compartment polypropylene box (53-918-0).

**RUBBER GROMMETS**



Bulk	A	B	C
54-811-0	5/16"	3/16"	1/16"
54-814-0	3/8"	1/4"	1/16"
54-817-0	1/2"	3/8"	1/16"

Use -10 for Display Package

**ADHESIVE RUBBER FEET**



54-880-0

54-885A-0



- 54-880-0** Bulk 1/2" round .232" thick
- 54-880-24** Display Package (24)
- 54-885A-0** Bulk 1/2" square .232" thick
- 54-885A-25** Display Package (25)

**RUBBER FEET**

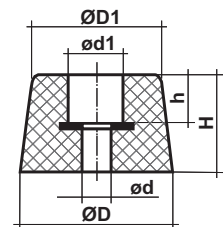


54-865-0 54-870-0 54-875-0

Units: mm

Bulk	Pkg.	H	h	D	D1	d	d1
54-865-0	-8	8.0	4.0	20.0	16.0	3.0	6.0
54-870-0	-8	11.0	6.0	20.0	16.0	4.0	8.0
54-875-0	-4	16.0	8.0	25.0	18.0	4.0	8.0

Mounting hardware included.





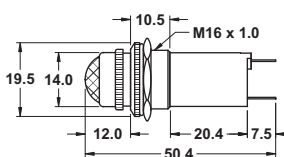


**55-056-0** Bulk 12V/140mA lead wire lamp  
**55-056-2** Display Package (2)



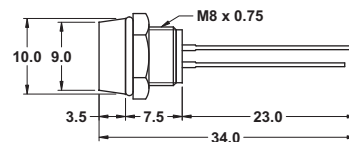
**55-120-0** Bulk NE-2 Neon bulb  
**55-120-2** Display Package (2)

**For a complete selection of bulbs, see the 56 series starting on page 57**



**T 3-1/4 (10mm) screw base**

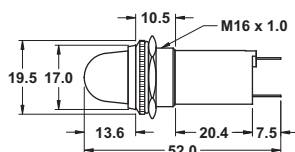
**55-365-0** Green Bulk  
 Use -1 for Display Package



**Black plastic bezel LED indicator**

These indicators require a resistor to limit current. See note on page 50 for details.

**55-431-0** Green LED Bulk  
 Use -1 for Display Package

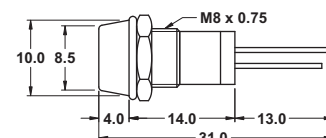


**T 3-1/4 (10mm) bayonet base**

**G3 1/2 Lamps Only**

**55-322-0** Red Bulk  
**55-325-0** Green Bulk  
 Use -1 for Display Package

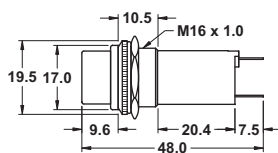
**G3 1/2 Lamps Only**



**Chrome plated LED indicator**

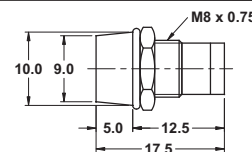
These indicators require a resistor to limit current. See note on page 50 for details.

**55-432-0** Red LED Bulk  
**55-433-0** Green LED Bulk  
**55-434-0** Orange LED Bulk  
 Use -1 for Display Package



**T 3-1/4 (10mm) bayonet base**

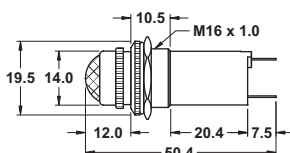
**55-332-0** Red Bulk  
**55-335-0** Green Bulk  
**55-339-0** Clear Bulk  
 Use -1 for Display Package



**Chrome plated LED holder**

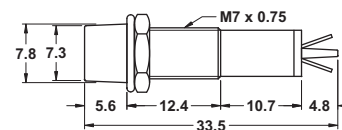
Chrome plated holder for 5mm LEDs. LED is not included.

**55-439-0** Bulk **55-439-1** Pkg.



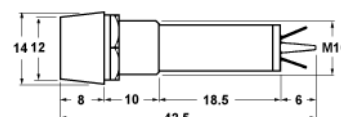
**T 3-1/4 (10mm) bayonet base**

**55-342-0** Red Bulk  
**55-343-0** Amber Bulk  
**55-345-0** Green Bulk  
**55-349-0** Clear Bulk  
 Use -1 for Display Package



**Neon indicators (internal resistor) 120VAC**

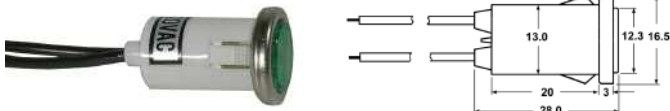
**55-442-0** Red lens 120VAC  
**55-443-0** Amber lens 120VAC  
**55-445-0** Green lens 120VAC  
 Use -1 for Display Package



**Neon indicators (internal resistor) 120VAC**

**55-462-0** Red lens 120VAC  
**55-463-0** Amber lens 120VAC  
**55-465-0** Green lens 120VAC  
 Use -1 for Display Package

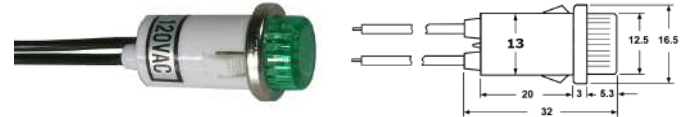
**IMPORTANT NOTE:**  
 The 55-32X series is suitable for G3 1/2 lamps only. (see page 57 for these lamps). T3 1/4 lamps will not fit into the lens of these holders. The 55-34X and 55-365 are suitable for T3 1/4 lamps and LED replacement lamps.  
 55-11XX series LED replacement lamps will not fit into any 55-32X, 55-33X, 55-34X and 55-365-0 holder.



**Neon indicators (internal resistor) 120VAC**

- 55-452-0** Red lens 120VAC
- 55-453-0** Amber lens 120VAC
- 55-455-0** Green lens 120VAC

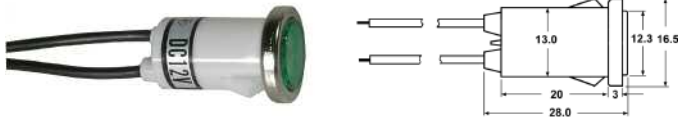
Use -1 for Display Package



**Neon indicators (internal resistor) 120VAC**

- 55-482-0** Red lens 120VAC
- 55-483-0** Amber lens 120VAC
- 55-485-0** Green lens 120VAC

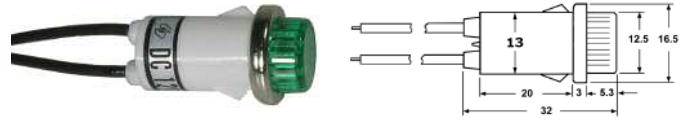
Use -1 for Display Package



**Incandescent indicators 12VDC**

- 55-472-0** Red lens 12VDC @ 58mA
- 55-473-0** Amber lens 12VDC @ 58mA
- 55-475-0** Green lens 12VDC @ 58mA

Use -1 for Display Package



**Incandescent indicators 12VDC and 24VDC**

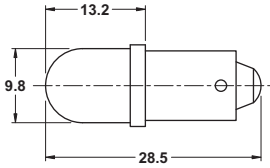
- 55-492-0** Red lens 12VDC @ 58mA
- 55-493-0** Amber lens 12VDC @ 58mA
- 55-495-0** Green lens 12VDC @ 58mA
- 55-496-0** Red lens 24VDC
- 55-497-0** Amber lens 24VDC
- 55-498-0** Green lens 24VDC

Use -1 for Display Package

**LED REPLACEMENT LAMPS**

**T3 1/4 (10mm) Bayonet Base**

Energy efficient, long lasting led replacement bulbs are suitable replacements for T3 1/4 (10mm) Bayonet Base Lamps. They are not affected with high vibration or harsh conditions like incandescent bulbs. These replacement bulbs will operate on either AC or DC voltage.



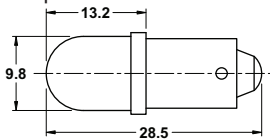
If = 20mA

Part No.	Color	Volts	MCD	
<b>55-110B-0</b>	Blue	6V AC/DC	2800	<b>7V Max</b>
<b>55-110G-0</b>	Green	6V AC/DC	1300	
<b>55-110R-0</b>	Red	6V AC/DC	2000	
<b>55-110Y-0</b>	Yellow	6V AC/DC	2000	<b>15V Max</b>
<b>55-110W-0</b>	Warm White	6V AC/DC	2000	
<b>55-111B-0</b>	Blue	12V AC/DC	2800	
<b>55-111G-0</b>	Green	12V AC/DC	1300	<b>32V Max</b>
<b>55-111R-0</b>	Red	12V AC/DC	2000	
<b>55-111Y-0</b>	Yellow	12V AC/DC	2000	
<b>55-111W-0</b>	Warm White	12V AC/DC	2000	<b>32V Max</b>
<b>55-112B-0</b>	Blue	24V AC/DC	2800	
<b>55-112G-0</b>	Green	24V AC/DC	1300	
<b>55-112R-0</b>	Red	24V AC/DC	2000	<b>32V Max</b>
<b>55-112Y-0</b>	Yellow	24V AC/DC	2000	
<b>55-112W-0</b>	Warm White	24V AC/DC	2000	

Use -1 for Display Package

**T3 1/4 (10mm) Bayonet Base**

Energy efficient, long lasting led replacement bulbs are suitable replacements for T3 1/4 (10mm) Bayonet Base Lamps. They are not affected with high vibration or harsh conditions like incandescent bulbs. These replacement bulbs will operate on either AC or DC voltage.



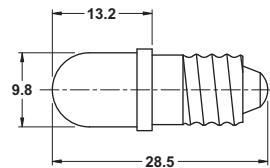
If = 20mA

Part No.	Color	Volts	MCD	
<b>55-113B-0</b>	Blue	120V AC/DC	2800	<b>130V Max</b>
<b>55-113G-0</b>	Green	120V AC/DC	1300	
<b>55-113R-0</b>	Red	120V AC/DC	2000	
<b>55-113W-0</b>	Warm White	120V AC/DC	2000	<b>130V Max</b>
<b>55-113Y-0</b>	Yellow	120V AC/DC	2000	

Use -1 for Display Package

**T3 1/4 (10mm) Screw Base**

These LED lamps are suitable long life replacements for T3 1/4 screw base lamps. The bottom contact is the anode (+) and the screw sleeve is the cathode. With internal resistor for the specified voltage



If = 20mA

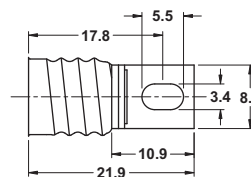
Part No.	Color	Volts	MCD	
<b>55-120G-0</b>	Green	6VDC	1300	<b>7V Max</b>
<b>55-120R-0</b>	Red	6VDC	2000	
<b>55-120Y-0</b>	Yellow	6VDC	2000	
<b>55-120W-0</b>	Warm White	6VDC	2000	<b>15V Max</b>
<b>55-121R-0</b>	Red	12VDC	2000	
<b>55-122B-0</b>	Blue	24VDC	2800	
<b>55-122G-0</b>	Green	24VDC	1300	<b>32V Max</b>
<b>55-122Y-0</b>	Yellow	24VDC	2000	
<b>55-122W-0</b>	Warm White	24VDC	2000	

Use -1 for Display Package

## E10 (T3 1/4) SCREW BASE SOCKET



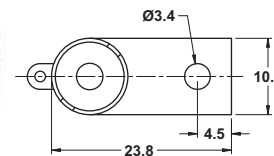
**55-200-0** Bulk  
**55-200-4** Pkg (4)



**55-202-0** Bulk  
**55-202-3** Pkg (3)

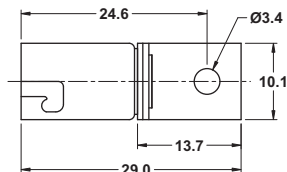
## E10 (T3 1/4) BAYONET BASE SOCKETS

**55-203-0** Bulk  
**55-203-3** Pkg (3)



With straight mounting tab.

**55-204-0** Bulk  
**55-204-3** Pkg (3)

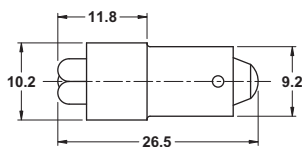


With right angle mounting tab.

## SUPER BRIGHT LED REPLACEMENT LAMPS

### T3 1/4 (10mm) Bayonet Base

These LED lamps are suitable long life replacements for T3 1/4 bayonet base lamps. With internal resistor for the specified voltage



**\*Important Note:** This series of LED bulbs are suitable for AC or DC voltage.

Part No.	Color	Volts	MCD	If
55-211B-0	Blue	12V*	4500	32mA
55-211G-0	Green	12V*	17000	32mA
55-211R-0	Red	12V*	21000	32mA
55-211Y-0	Yellow	12V*	21000	32mA
55-211W-0	White	12V*	10000	32mA
55-212G-0	Green	24V*	17000	20mA
55-212R-0	Red	24V*	21000	20mA
55-212Y-0	Yellow	24V*	21000	20mA
55-212W-0	White	24V*	10000	20mA

15V Max

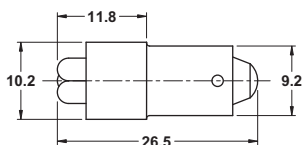
32V Max

Use -1 for Display Package

## SUPER BRIGHT 120VAC/DC LED REPLACEMENT LAMPS

### T3 1/4 (10mm) Bayonet Base

These LED lamps are suitable long life replacements for T3 1/4 bayonet base lamps. With internal resistor for the specified voltage



If = 4.8mA

Part No.	Color	Volts	MCD
55-214B-0	Blue	120V*	800
55-214G-0	Green	120V*	3000
55-214R-0	Red	120V*	3500
55-214Y-0	Yellow	120V*	3500
55-214W-0	White	120V*	1800

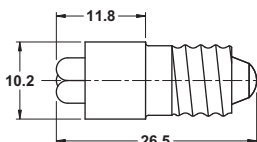
120V Max

Use -1 for Display Package

**\*Important Note:** This series of LED bulbs are suitable for AC or DC voltage.

### T3 1/4 (10mm) Screw Base

These LED lamps are suitable long life replacements for T3 1/4 screw base lamps. With internal resistor for the specified voltage



If = 4.8mA

Part No.	Color	Volts	MCD
55-224W-0	White	120V*	1800

120V Max

Use -1 for Display Package

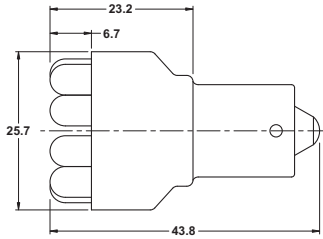
**\*Important Note:** This series of LED bulbs are suitable for AC or DC voltage.

**SUPER BRIGHT LED CLUSTER, SINGLE AND DUAL CONTACT, REPLACEMENT LAMPS**

Replaces 1156 bulb



Consists of 12 LED's



These LED lamps are suitable long life replacements for 15mm bayonet base lamps. The bottom contact is the anode (+) and the bayonet sleeve is the cathode. With internal resistor for 12VDC.

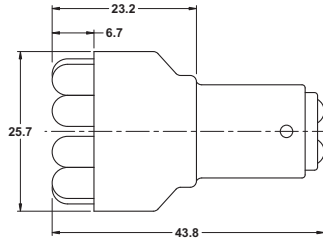
Part No.	Color	Volts	LM	MCD	If
55-256R-0	Super Red	12V	9.5	7500	80mA
55-256W-0	Super White	12V	15.0	10800	80mA

Use -1 for Display Package **14V Max**

Replaces 1157 bulb



Consists of 12 LED's



These LED lamps are suitable long life replacements for 15mm bayonet base, dual contact lamps. With internal resistor for 12VDC

Part No.	Color	Volts	LM	MCD	If
55-257R-0	Super Red	12V	8.0/1.8	7500	80/25mA
55-257Y-0	Super Yellow	12V	9.5/2.2	8800	80/25mA

Use -1 for Display Package **14V Max**

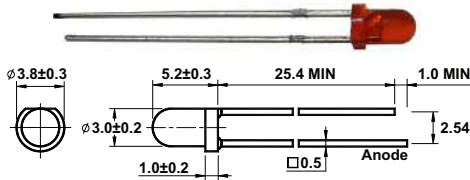
All LED's (excluding the LED indicator lamps with internal resistor) require a resistor in series to limit the current to the required specification (usually 20mA). Use Ohm's law to calculate the value of the resistor required. Most LED's have a voltage drop of 2 volts. Blue & white LED's are 3.5 - 4 volts.

$$V=IR \text{ (volts = current(amps) x resistance)}$$

For a 12VDC supply voltage @ 20mA the required resistor would be:  
 $10 \text{ (volts)} / .02 \text{ (amps)} = 500 \text{ ohms}$

**LED'S ARE SUITABLE FOR DC ONLY**

**3mm LED'S**



**STANDARD 3mm LED'S**

Brightness rating @ 10mA

55-532-0	Red	4MCD
55-533-0	Red	35MCD
55-534-0	Yellow	6MCD
55-535-0	Green	15MCD

Use -5 for Display Package

**HIGH BRIGHTNESS 3mm LED'S**

Brightness rating @ 20mA

55-532HB-0	Red	150MCD
55-534HB-0	Yellow	1200MCD
55-535HB-0	Green	3000MCD
55-536HB-0	White	1200MCD

Use -3 for Display Package

**SUPER BRIGHT 3mm LED'S**

Brightness rating @ 20mA

55-532SB-0	Red	1800MCD
55-534SB-0	Yellow	2000MCD
55-535SB-0	Green	4000MCD
55-536SB-0	White	1800MCD
55-537SB-0	Blue	2000MCD
55-540SB-0	Pink	1800MCD

Use -1 for Display Package

**EXTRA BRIGHT 3mm LED'S**

Brightness rating @ 20mA

55-532XB-0	Red	5000MCD
55-534XB-0	Yellow	4000MCD
55-535XB-0	Green	5000MCD
55-536XB-0	White	2400MCD
55-537XB-0	Blue	3500MCD

Use -1 for Display Package

**ULTRA BRIGHT 3mm LED'S**

Brightness rating @ 20mA

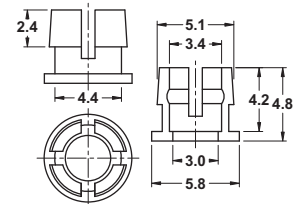
55-532UB-0	Red	7000MCD
55-535UB-0	Green	8000MCD
55-536UB-0	White	6000MCD
55-537UB-0	Blue	4500MCD

Use -1 for Display Package

**3mm MOUNTING BEZEL**



3mm plastic mounting bezel (1 piece)



55-530-0 Bulk  
55-530-10 Disp. Pkg. (10)

**LED's continued on next page.**

We have many different types of LED's available on special order. If you have a requirement, please contact Mode or your local Distributor for details and order quantities.



**3mm BI-COLOR LED'S**

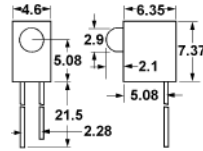


Color: Red/Green  
Brightness: 15-25/5-10 mcd

**55-539-0**  
**55-539-5**

Bulk  
Display Package (5)

**3mm R/A LED'S**



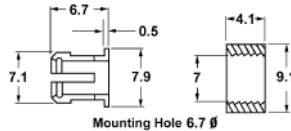
Brightness level @ 10mA

**55-542-0**  
**55-545-0**

Red 3.2MCD  
Green 15MCD

Use -5 for Display Package

**5mm LED HOLDER**

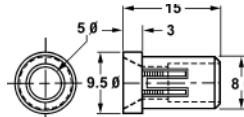


Plastic 2 piece panel mount holder for 5mm LED's.

**55-550-0**  
**55-550-10**

Bulk  
Display Package (10)

**5mm LED HOLDER (concave)**

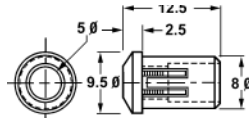


Plastic 1 piece panel mount holder for 5mm LED's.

**55-550A-0**  
**55-550A-4**

Bulk  
Display Package (4)

**5mm LED HOLDER (convex)**

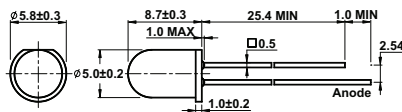


Plastic 1 piece panel mount holder for 5mm LED's.

**55-550B-0**  
**55-550B-4**

Bulk  
Display Package (4)

**5mm LED'S**



**STANDARD 5mm LED'S**

Brightness rating @ 10mA

**55-552-0**  
**55-553-0**  
**55-554-0**  
**55-555-0**  
**55-558-0**  
**55-558-1**

Red  
Orange  
Yellow  
Green  
Blue  
Display Package

5-10MCD  
200-400MCD  
300-500MCD  
100-120MCD  
1000-1500MCD

Use -5 for Display Package-except 55-558

**HIGH BRIGHTNESS 5mm LED'S**

Brightness rating @ 20mA

**55-556-0**  
**55-556-5**  
**55-555HB-0**  
**55-558HB-0**  
**55-559HB-0**

Red  
Display Package (5)  
Green  
Blue  
White

2500-3500MCD  
1000-2000MCD  
1500-2500MCD  
1500-3000MCD

Use -1 for Display Package-except 55-556

**SUPER BRIGHT 5mm LED'S**

Brightness rating @ 20mA

**55-557-0**  
**55-557-2**  
**55-554SB-0**  
**55-554SB-2**  
**55-555SB-0**  
**55-555SB-1**  
**55-558SB-0**  
**55-558SB-1**  
**55-559SB-0**  
**55-559SB-1**

Red  
Display Package (2)  
Yellow  
Display Package (2)  
Green  
Display Package  
Blue  
Display Package  
White  
Display Package

2500MCD  
1000-1500MCD  
7000-9000MCD  
2500-3000MCD  
3000-5000MCD

**EXTRA BRIGHT 5mm LED'S**

Brightness rating @ 20mA

**55-552XB-0**  
**55-554XB-0**  
**55-555XB-0**  
**55-558XB-0**  
**55-559XB-0**  
**55-559XB-2**

Red  
Yellow  
Green  
Blue  
White  
Display Package (2)

4000-6000MCD  
3500MCD  
8K-11KMCD  
3000-4000MCD  
4000-6000MCD

Use -3 for Display Package-except 55-559XB

**ULTRA BRIGHT 5mm LED'S**

Brightness rating @ 20mA

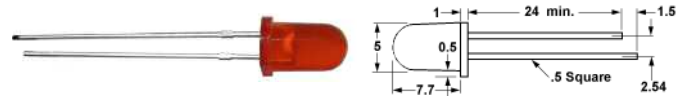
**55-552UB-0**  
**55-554UB-0**  
**55-555UB-0**  
**55-558UB-0**  
**55-559UB-0**  
**55-559UB-2**

Red  
Yellow  
Green  
Blue  
White  
Display Package (2)

10K-12KMCD  
10K-12KMCD  
15K-20KMCD  
8K-10KMCD  
20K-22KMCD

Use -3 for Display Package-except 55-559UB

**5mm FLASHING LED**



Requires no external circuitry.

**55-572-0**  
**55-572-2**  
**55-573-0**  
**55-573-2**

Red  
Display Package (2)  
Red  
Display Package (2)

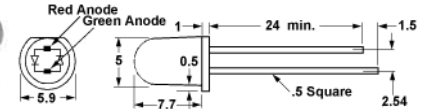
1000MCD (3 - 5VDC)

18MCD (3.5 - 14VDC)

**5mm BI-COLOR LED'S**



2-lead dual color LED



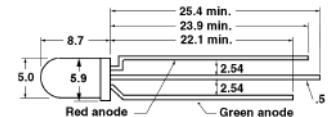
**55-582-0**  
**55-582-5**

Red/Green  
Display Package (5)

2.2/3.5MCD



3-lead dual color LED



**55-592-0**  
**55-592-5**

Red/Green  
Display Package (5)

2.2/2.5MCD

**5mm INFRARED LED**



**55-610-0**  
**55-611-0**

Emitter  
Detector

Use -5 for Display Package

**55-612-2**

Display Package (2)

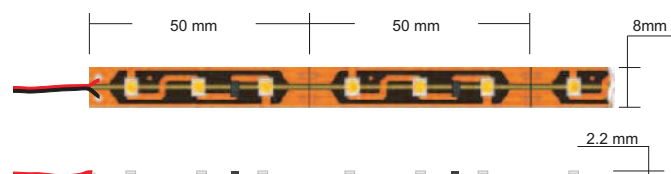
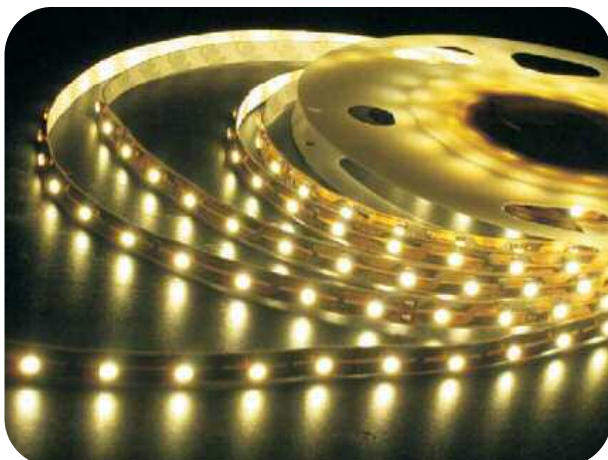
Package content: 55-610-0 and 55-611-0

**INDOOR SERIES - BARE PCB LED STRIPS**

Input Voltage: DC 12V Regulated  
 Forward Current: 0.4A per 1m (60 pcs LED Strip)  
 Power Dissipation: 4.8W per 1m (60 pcs LED Strip)  
 Non-Waterproof IP20: 2 - Protected against solid objects up to 12mm<sup>3</sup>, 0 - No protection  
 Operating Temperature: -20°C ~ 50°C

Very bright & low power consumption.  
 Long life span LED lights, more than 50,000 hours.  
 Adhesive back, peel & stick. Ideal for sign letters and channel letters, concealed lights, room lighting

Part Number	Length [m] / LED [PCS]	Material Type	Emitted Color	Lumen / meter	Dominant Wavelength [nm]	Color Temperature [CCT]	View Angle
55-7030B-0	0.5 / 30	InGaN	Blue	150	470	n/a	120
55-7030G-0	0.5 / 30	InGaN	Green	240	525	n/a	120
55-7030R-0	0.5 / 30	AlGaInP	Red	120	625	n/a	120
55-7030Y-0	0.5 / 30	AlGaInP	Yellow	120	590	n/a	120
55-7030W-0	0.5 / 30	InGaN	White	390	n/a	6000	120
55-7030WW-0	0.5 / 30	InGaN	Warm White	360	n/a	3300	120
55-7060B-0	1 / 60	InGaN	Blue	150	470	n/a	120
55-7060G-0	1 / 60	InGaN	Green	240	525	n/a	120
55-7060R-0	1 / 60	AlGaInP	Red	120	625	n/a	120
55-7060Y-0	1 / 60	AlGaInP	Yellow	120	590	n/a	120
55-7060W-0	1 / 60	InGaN	White	390	n/a	6000	120
55-7060WW-0	1 / 60	InGaN	Warm White	360	n/a	3300	120
55-70300B-0	5 / 300	InGaN	Blue	150	470	n/a	120
55-70300G-0	5 / 300	InGaN	Green	240	525	n/a	120
55-70300R-0	5 / 300	AlGaInP	Red	120	625	n/a	120
55-70300Y-0	5 / 300	AlGaInP	Yellow	120	590	n/a	120
55-70300W-0	5 / 300	InGaN	White	390	n/a	6000	120
55-70300WW-0	5 / 300	InGaN	Warm White	360	n/a	3300	120



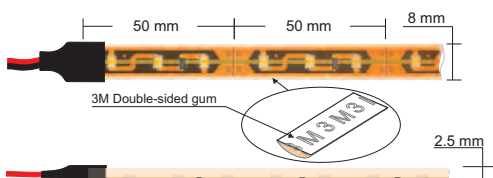
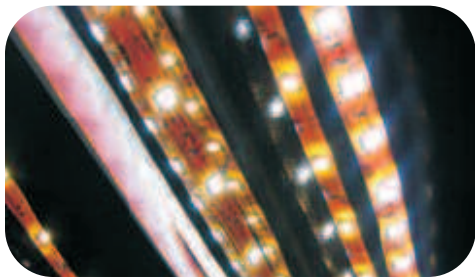
## SILICONE COATED SERIES LED STRIPS

Input Voltage: DC 12V Regulated  
 Forward Current: 0.4A per 1m (60 pcs LED Strip)  
 Power Dissipation: 4.8W per 1m (60 pcs LED Strip)  
 Waterproof IP65: 6 - Totally protected against dust, 5 - Protected against low pressure jets of water from all directions - limited ingress permitted  
 Operating Temperature: -20°C ~ 50°C

Very bright & low power consumption. Long life span LED lights, more than 50,000 hours. Adhesive back, peel & stick.

Part Number	Length [m] / LED [PCS]	Material Type	Emitted Color	Lumen / meter	Dominant Wavelength [nm]	Color Temperature [CCT]	View Angle
55-7130B-0	0.5 / 30	InGaN	Blue	150	470	n/a	120
55-7130G-0	0.5 / 30	InGaN	Green	240	525	n/a	120
55-7130R-0	0.5 / 30	AlGaInP	Red	120	625	n/a	120
55-7130Y-0	0.5 / 30	AlGaInP	Yellow	120	590	n/a	120
55-7130W-0	0.5 / 30	InGaN	White	390	n/a	6000	120
55-7130WW-0	0.5 / 30	InGaN	Warm White	360	n/a	3300	120
55-7160B-0	1 / 60	InGaN	Blue	150	470	n/a	120
55-7160G-0	1 / 60	InGaN	Green	240	525	n/a	120
55-7160R-0	1 / 60	AlGaInP	Red	120	625	n/a	120
55-7160Y-0	1 / 60	AlGaInP	Yellow	120	590	n/a	120
55-7160W-0	1 / 60	InGaN	White	390	n/a	6000	120
55-7160WW-0	1 / 60	InGaN	Warm White	360	n/a	3300	120
55-71300B-0	5 / 300	InGaN	Blue	150	470	n/a	120
55-71300G-0	5 / 300	InGaN	Green	240	525	n/a	120
55-71300R-0	5 / 300	AlGaInP	Red	120	625	n/a	120
55-71300Y-0	5 / 300	AlGaInP	Yellow	120	590	n/a	120
55-71300W-0	5 / 300	InGaN	White	390	n/a	6000	120
55-71300WW-0	5 / 300	InGaN	Warm White	360	n/a	3300	120
55-7130RGB-0 *	5 / 150	n/a	RGB (Multi)	R: 60 G: 120 B: 75	n/a	n/a	120
55-7160RGB-0 *	5 / 300	n/a	RGB (Multi)	R: 120 G: 240 B: 150	n/a	n/a	120

\* RGB Multi Color. DMX compatible. RGB Controller is required (55-725-0)



### RGB CONTROLLER



- 9 pattern adjustable controller
- Rated current: 8A
- Rated load current: 8A x 3CHANNEL
- Working Voltage: 12VDC
- Working temperature: -20°C ~ 60°C
- Size: 107x65x24mm
- 3 AAA Batteries Included

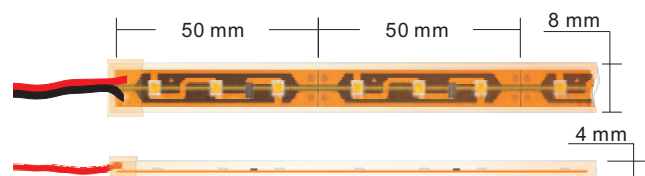
**55-725-0**

**SILICONE SLEEVE SERIES LED STRIPS**

Input Voltage: DC 12V Regulated  
 Forward Current: 0.4A per 1m (60 pcs LED Strip)  
 Power Dissipation: 4.8W per 1m (60 pcs LED Strip)  
 Waterproof IP67: 6 - Totally protected against dust, 7 - Protected against the effect of immersion between 15cm and 1m  
 Operating Temperature: -20°C ~ 50°C

Very bright & low power consumption. Long life span LED lights, more than 50,000 hours.

Part Number	Length [m] / LED [PCS]	Material Type	Emitted Color	Lumen / meter	Dominant Wavelength [nm]	Color Temperature [CCT]	View Angle
55-7230B-0	0.5 / 30	InGaN	Blue	150	470	n/a	120
55-7230G-0	0.5 / 30	InGaN	Green	240	525	n/a	120
55-7230R-0	0.5 / 30	AlGaInP	Red	120	625	n/a	120
55-7230Y-0	0.5 / 30	AlGaInP	Yellow	120	590	n/a	120
55-7230W-0	0.5 / 30	InGaN	White	390	n/a	6000	120
55-7230WW-0	0.5 / 30	InGaN	Warm White	360	n/a	3300	120
55-7260B-0	1 / 60	InGaN	Blue	150	470	n/a	120
55-7260G-0	1 / 60	InGaN	Green	240	525	n/a	120
55-7260R-0	1 / 60	AlGaInP	Red	120	625	n/a	120
55-7260Y-0	1 / 60	AlGaInP	Yellow	120	590	n/a	120
55-7260W-0	1 / 60	InGaN	White	390	n/a	6000	120
55-7260WW-0	1 / 60	InGaN	Warm White	360	n/a	3300	120
55-72300B-0	5 / 300	InGaN	Blue	150	470	n/a	120
55-72300G-0	5 / 300	InGaN	Green	240	525	n/a	120
55-72300R-0	5 / 300	AlGaInP	Red	120	625	n/a	120
55-72300Y-0	5 / 300	AlGaInP	Yellow	120	590	n/a	120
55-72300W-0	5 / 300	InGaN	White	390	n/a	6000	120
55-72300WW-0	5 / 300	InGaN	Warm White	360	n/a	3300	120



**End Cap and Clip for 55-72X and 55-73X Series**



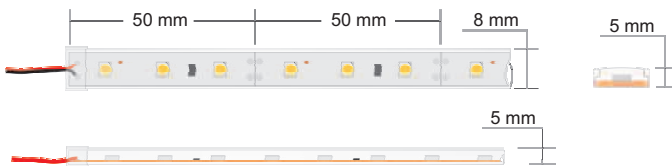


## SILICONE ENCAPSULATED SERIES LED STRIPS

Input Voltage: DC 12V Regulated  
 Forward Current: 0.4A per 1m (60 pcs LED Strip)  
 Power Dissipation: 4.8W per 1m (60 pcs LED Strip)  
 Waterproof IP68: 6 - Totally protected against dust, 8 - Protected against long periods of immersion under pressure  
 Operating Temperature: -20°C ~ 50°C

Very bright & low power consumption. Long life span LED lights, more than 50,000 hours.

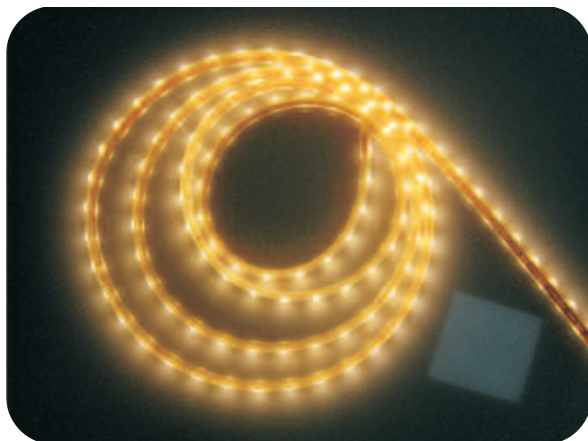
Part Number	Length [m] / LED [PCS]	Material Type	Emitted Color	Lumen / meter	Dominant Wavelength [nm]	Color Temperature [CCT]	View Angle
55-7330B-0	0.5 / 30	InGaN	Blue	150	470	n/a	120
55-7330G-0	0.5 / 30	InGaN	Green	240	525	n/a	120
55-7330R-0	0.5 / 30	AlGaInP	Red	120	625	n/a	120
55-7330Y-0	0.5 / 30	AlGaInP	Yellow	120	590	n/a	120
55-7330W-0	0.5 / 30	InGaN	White	390	n/a	6000	120
55-7330WW-0	0.5 / 30	InGaN	Warm White	360	n/a	3300	120
55-7360B-0	1 / 60	InGaN	Blue	150	470	n/a	120
55-7360G-0	1 / 60	InGaN	Green	240	525	n/a	120
55-7360R-0	1 / 60	AlGaInP	Red	120	625	n/a	120
55-7360Y-0	1 / 60	AlGaInP	Yellow	120	590	n/a	120
55-7360W-0	1 / 60	InGaN	White	390	n/a	6000	120
55-7360WW-0	1 / 60	InGaN	Warm White	360	n/a	3300	120
55-73300B-0	5 / 300	InGaN	Blue	150	470	n/a	120
55-73300G-0	5 / 300	InGaN	Green	240	525	n/a	120
55-73300R-0	5 / 300	AlGaInP	Red	120	625	n/a	120
55-73300Y-0	5 / 300	AlGaInP	Yellow	120	590	n/a	120
55-73300W-0	5 / 300	InGaN	White	390	n/a	6000	120
55-73300WW-0	5 / 300	InGaN	Warm White	360	n/a	3300	120



### End Cap and Clip for 55-72X and 55-73X Series



### LED STRIP DIMMER



- Single color LED Strips Dimmer (not for 55-7130RGB-0 or 55-7160RGB-0)
- Maximum up to 18A current output
- Working Voltage: 12VDC
- Working temperature: -20°C ~ 60°C
- Size: 107x55x24mm
- Sturdy aluminum frame

55-724-0

**8MM SOLDERLESS LED STRIP CONNECTOR**



8mm Solderless LED Strip Connector with 6" leads.

**55-740-0** Bulk

**10MM SOLDERLESS RGB STRIP CONNECTOR**



10mm Solderless RGB LED Strip Connector with 6" leads.

**55-750-0** Bulk



**8MM SOLDERLESS LED STRIP JOINER**

**55-742-0** Bulk



**10MM SOLDERLESS RGB STRIP JOINER**

**55-752-0** Bulk

**8MM SNAP-ON LED STRIP CONNECTOR**



8mm Snap-on LED Strip Connector with 6" leads.

**55-744-0** Bulk

**10MM SNAP-ON LED STRIP CONNECTOR**



10mm Snap-on LED Strip Connector with 6" leads.

**55-745-0** Bulk



**8MM SNAP-ON LED STRIP JOINER**

**55-746-0** Bulk



**10MM SNAP-ON LED STRIP JOINER**

**55-747-0** Bulk



**10MM SNAP-ON RGB LED STRIP JOINER**

**55-756-0** Bulk

**8MM SNAP-ON LED STRIP JOINER**



8mm Snap-on LED Strip Joiner with 6" leads.

**55-748-0** Bulk

**10MM SNAP-ON RGB LED STRIP JOINER**



10mm Snap-on RGB LED Strip Joiner with 6" leads.

**55-758-0** Bulk

**Note: 8mm Connectors are for standard single color LED Strips. 55-750-0, 55-752-0, 55-756-0 and 55-758-0 10mm Connectors are for RGB LED Strips.**

**BARE COB LED STRIP LIGHTS**

**Input Voltage:** DC 12V  
**Forward Current:** 0.83A per 1m (512 pcs LED Strip)  
**Power Dissipation:** 10W per 1m (512 pcs LED Strip)  
**Non Water-Proof, IP20:** 2 - Protected against solid objects up to 12mm<sup>3</sup>  
 0 - No protection against liquids



Excellent uniformity of brightness. Long life span LED lights, 30,000 to 50,000 hours.  
 Adhesive back, peel & stick. Ideal for sign letters and channel letters, concealed lights, room lighting

Part Number	Length [m] / LED [PCS]	Emitted Color	Dominant Wavelength [nm]	Color Temperature (CCT) [K]	Luminous Flux [lm/m]	View Angle
55-7630B-0	0.5 / 256	Blue	455 - 470	n/a	380 - 400	180
55-7630G-0		Green	510 - 525	n/a	900 - 1000	
55-7630R-0		Red	620 - 630	n/a	230 - 250	
55-7630W-0		White	n/a	6000 - 7000	1100 - 1200	
55-7630WW-0		Warm White	n/a	3000 - 3500	900 - 1000	
55-7660B-0	1 / 512	Blue	455 - 470	n/a	380 - 400	
55-7660G-0		Green	510 - 525	n/a	900 - 1000	
55-7660R-0		Red	620 - 630	n/a	230 - 250	
55-7660W-0		White	n/a	6000 - 7000	1100 - 1200	
55-7660WW-0		Warm White	n/a	3000 - 3500	900 - 1000	
55-76300B-0	5 / 2560	Blue	455 - 470	n/a	380 - 400	
55-76300G-0		Green	510 - 525	n/a	900 - 1000	
55-76300R-0		Red	620 - 630	n/a	230 - 250	
55-76300W-0		White	n/a	6000 - 7000	1100 - 1200	
55-76300WW-0		Warm White	n/a	3000 - 3500	900 - 1000	

55-76300R-0



55-76300G-0



55-76300B-0



55-76300W-0



55-76300WW-0



55-76COBA-0



8mm Snap-On LED Strip Joiner

55-76COBB-0



8mm Snap-On LED Strip Connector



55-76COBC-0

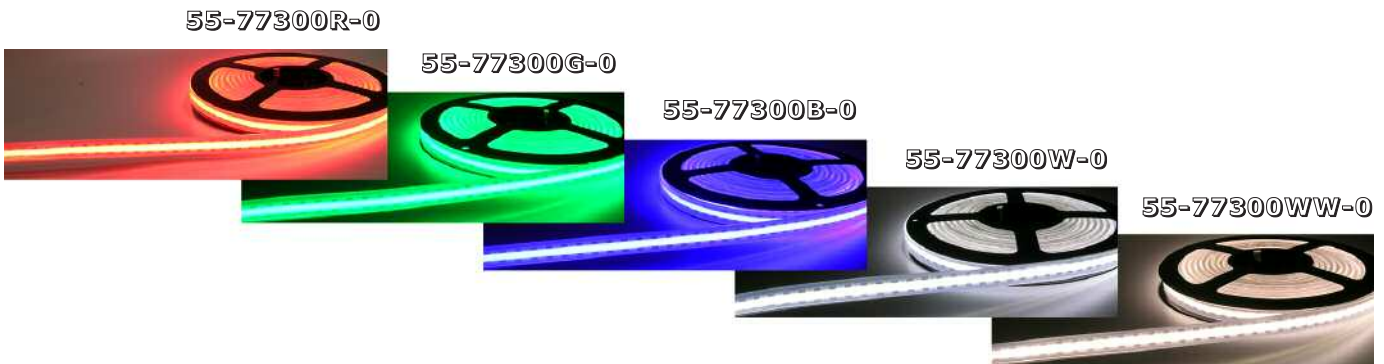
8mm Snap-On LED Strip Joiner

**SILICONE SLEEVE COB LED STRIP LIGHTS**



**Input Voltage:** DC 12V  
**Forward Current:** 0.83A per 1m (512 pcs LED Strip)  
**Power Dissipation:** 10W per 1m (512 pcs LED Strip)  
**Waterproof IP67:** 6 - Totally protected against dust  
 7 - Protected against the effect of immersion between 15cm and 1m  
 Excellent uniformity of brightness. Long life span LED lights, 30,000 to 50,000 hours.  
 Adhesive back, peel & stick.

Part Number	Length [m] / LED [PCS]	Emitted Color	Dominant Wavelength [nm]	Color Temperature (CCT) [K]	Luminous Flux [lm/m]	View Angle
55-7730B-0	<b>0.5 / 256</b>	Blue	455 - 470	n/a	380 - 400	180
55-7730G-0		Green	510 - 525	n/a	900 - 1000	
55-7730R-0		Red	620 - 630	n/a	230 - 250	
55-7730W-0		White	n/a	6000 - 7000	1100 - 1200	
55-7730WW-0		Warm White	n/a	3000 - 3500	900 - 1000	
55-7760B-0	<b>1 / 512</b>	Blue	455 - 470	n/a	380 - 400	
55-7760G-0		Green	510 - 525	n/a	900 - 1000	
55-7760R-0		Red	620 - 630	n/a	230 - 250	
55-7760W-0		White	n/a	6000 - 7000	1100 - 1200	
55-7760WW-0		Warm White	n/a	3000 - 3500	900 - 1000	
55-77300B-0	<b>5 / 2560</b>	Blue	455 - 470	n/a	380 - 400	
55-77300G-0		Green	510 - 525	n/a	900 - 1000	
55-77300R-0		Red	620 - 630	n/a	230 - 250	
55-77300W-0		White	n/a	6000 - 7000	1100 - 1200	
55-77300WW-0		Warm White	n/a	3000 - 3500	900 - 1000	



8mm Snap-On LED Strip Joiner



8mm Snap-On LED Strip Connector



8mm Snap-On LED Strip Joiner

55-76COBC-0



### LAMP CROSS-REFERENCE

Generic lamp number to Mode part number.

**Important Note:** This cross-reference only indicates the closest Mode part for the generic lamp numbers. If the Mode # is the same as the generic # they are identical parts. The Mode lamps were selected to be suitable replacements for a number of lamps. They may not be electrically identical. Our objective was to offer a limited number of lamps that could replace many of the similar generic items. Please make sure to check the exact specifications for a replacement to make sure that it is suitable.

PR2	56-PR2	68	56-1178	431	56-0293	3150	56-0349
PR4	56-PR2	82	56-0064	455	56-0055	6839	56-6839
PR5	56-PR2	90	56-1178	456	56-0456	7326	56-0373
PR6	56-PR6	94	56-1076	459	56-0459	7327	56-7376
PR9	56-PR6	251	56-0375	502	56-0502	7332	56-0349
PR14	56-PR6	257	56-0293	503	56-0055	7333	56-0349
PR31	56-PR6	293	56-0293	624	56-0624	7334	56-0349
PR3	56-PR17	304	56-0624	685	56-0718	7346	56-0398
PR7	56-PR17	328	56-0349	714	56-0718	7376	56-7376
PR30	56-PR17	398	56-0398	718	56-0718	7387	56-7376
PR13	56-PR17	407	56-0407	1076	56-1076	7420	56-0022
PR32	56-PR17	332	56-0349	1109	56-1076	7876	56-7376
PR15	56-PR17	335	56-0399	1118	56-1076	8022	56-0718
PR17	56-PR17	336	56-0346	1142	56-1076	8362	56-0373
PR12	56-PR20	337	56-0398	1152	56-1076		
PR18	56-PR20	338	56-0375	1178	56-1178		
PR20	56-PR20	345	56-0349	1224	56-1224		
22	56-0022	346	56-0346	1228	56-1229		
27	56-0502	349	56-0349	1229	56-1229		
32	56-0022	350	56-0349	1252	56-0624		
41	56-0042	369	56-0399	1638	56-1638		
42	56-0042	370	56-0459	1738	56-1738		
43	56-0043	373	56-0373	1764	56-1764		
48	56-0042	375	56-0375	1767	56-1769		
49	56-0043	362	56-0373	1769	56-1769		
55	56-0055	377	56-0349	1895	56-0293		
57	56-0293	379	56-0398	2176	56-1764		
57X	56-0293	380	56-0349	2185	56-1764		
58	56-1738	381	56-0349	2187	56-1764		
64	56-0064	386	56-0346	2370	56-1764		

#### FLASHLIGHT BULBS (B3 1/2)



Part No.	Volts	Amps	CP	Life
56-PR2-0	2.38	.50	.80	15
56-PR6-0	2.47	.30	.45	30
56-PR17-0	4.90	.30	1.2	31.8
56-PR20-0	8.63	.50	5.0	31.8

#### SCREW/BAYONET (G4 1/2)



Part No.	Base	Volts	Amps	CP	Life
56-0407-0	Screw	4.90	.30	1.2	50
56-0502-0	Screw	5.10	.15	.60	100
56-0055-0	Bay	7.0	.41	2.0	500
56-0293-0	Bay	14.0	.33	2.0	7500
56-0456-0	Bay	28.0	.17	2.0	3000

#### DC BAYONET (G6)



Part No.	Base	Volts	Amps	CP	Life
56-0064-0	Bay	7.0	.63	3.0	1000
56-1178-0	Bay	13.5	.69	4.0	5000
56-0624-0	Bay	28	.37	6.0	1000
56-1224-0	Bay	34.0	.16	3.8	275

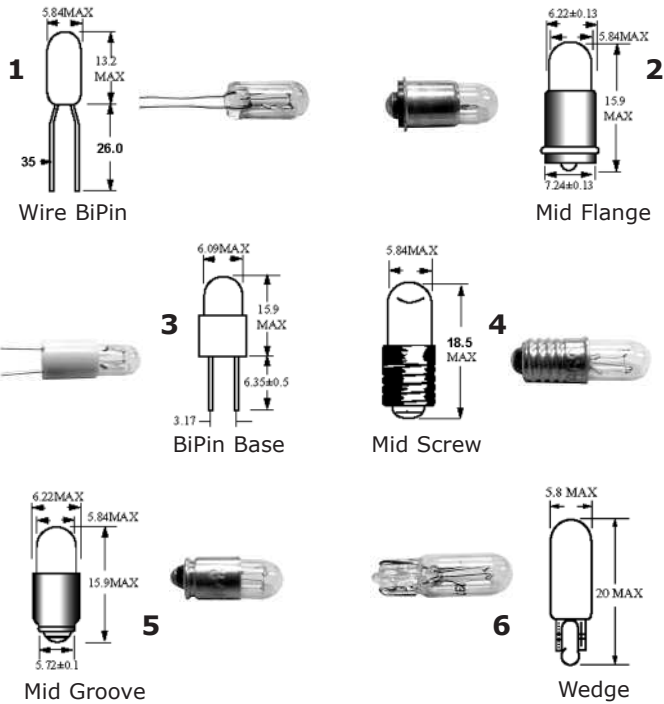
**DC BAYONET (S8)**



**Lamp Specifications:**  
Current in Amperes  
CP = Mean Spherical Candle Power  
Life is listed in hours.

Part No.	Base	Volts	Amps	CP	Life
56-1076-0	Bay	12.8	1.8	32	200
56-1638-0	Bay	28.0	1.02	32	500
56-1229-0	Bay	34.0	.45	15	275

**T1 3/4 BULBS**



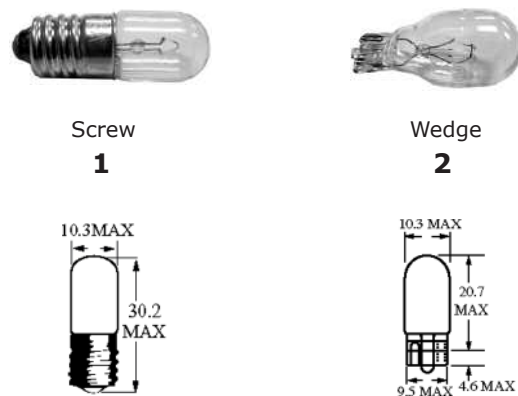
Part No.	Base	Volts	Amps	CP	Life
56-1738-0	1	2.70	.06	.04	6000
56-1764-0	1	28.0	.04	.34	4000
56-0375-0	2	3.0	.015	.003	20K
56-0349-0	2	6.3	.20	.55	20K
56-0459-0	2	22.0	.04	.30	5000
56-7376-0	3	28.0	.065	.65	10K
56-1769-0	4	2.5	.20	.20	1000
56-0373-0	4	14.0	.08	.50	2500
56-0399-0	4	28.0	.04	.30	7000
56-0398-0	5	6.3	.20	.55	20K
56-0346-0	5	18.0	.04	.15	10K

**T1 BULBS**



Part No.	Base	Volts	Amps	CP	Life
56-0718-0	MF	5.0	.115	.15	40K
56-0022-0	MF	14.0	.04	.132	16K
56-6839-0	MF	28.0	.024	.15	16K

**T3 1/4 BULBS**



Part No.	Base	Volts	Amps	CP	Life
56-0042-0	1	3.2	.35	.50	3000

**The lamps shown in this catalog are stocked. We have many additional types available - contact us or your local Distributor for details.**

Have you ever wondered where the bulb size designations came from or what they mean? So did we... they refer to increments of .125" (1/8"). For example a T1 is .125" in Diameter. A T3 1/4 is 3.25 x .125 = .40625". In Metric a T1 3/4 is considered 5mm and T3 1/4 is considered 10mm.

## FUSEHOLDERS



**10A @ 250VAC**

Bayonet style fuse holder for 3AG (1/4" x 1 1/4") fuses.

**55-800-0** Bulk  
**55-800-1** Display Package



**10A @ 250VAC**

Screw type fuseholder for 3AG (1/4" x 1 1/4") fuses.

**55-802-0** Bulk  
**55-802-1** Display Package

## INLINE FUSEHOLDER



Screw bakelite fuseholder for 3AG (1/4" x 1 1/4") fuses. 45cm of 12 AWG red wire. 20A @ 12VDC

**55-820-0** Bulk  
**55-820-1** Pkg



Polypropylene fuseholder for 3AG (1/4" x 1 1/4") fuses. 19cm red 18AWG wire. 10A @ 12VDC.

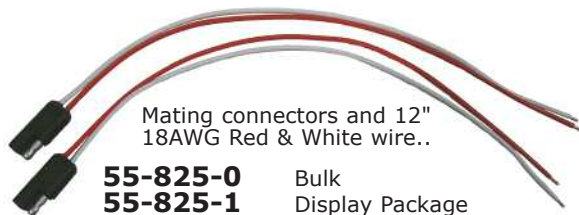
**55-821-0** Bulk  
**55-821-1** Pkg



Inline Fuseholder for 5x20mm fuses, 18" lead, 18AWG, 10A.

**55-822-0** Bulk  
**55-822-1** Pkg

## TRAILER HARNESS CABLE SET



Mating connectors and 12" 18AWG Red & White wire..

**55-825-0** Bulk  
**55-825-1** Display Package

## FUSES

Standard 3AG size (1/4" x 1 1/4") fuses. Slow blow (MDL) & fast blow (AGC)



**Slow blow**  
**55-950-0** 5 Amp  
**55-951-0** 10 Amp  
**55-952-0** 15 Amp  
**55-953-0** 20 Amp

Use -5 for Display Package

**Fast blow**  
**55-910-0** 1 Amp  
**55-920-0** 2 Amp  
**55-923-0** 3 Amp  
**55-925-0** 5 Amp  
**55-930-0** 10 Amp  
**55-932-0** 15 Amp  
**55-933-0** 20 Amp  
**55-934-0** 25 Amp  
**55-935-0** 30 Amp

Use -5 for Display Package

## BATTERY HOLDERS



'AA' Battery Holder with 15cm UL1007 26AWG Wire

**57-311-0** Bulk  
**57-311-2** Package (2)



4 x 'AA' Battery Holder with Snap Connector

**57-342-0** Bulk  
**57-342-2** Package (2)



4 x 'AA' Battery Holder with Snap Connector

**57-343-0** Bulk  
**57-343-2** Package (2)



4 x 'AA' Battery Holder with Snap Connector

**57-344-0** Bulk  
**57-344-2** Package (2)



4 x 'AA' Battery Holder with 15cm UL1007 26AWG Wire

**57-345-0** Bulk  
**57-345-2** Package (2)



2 x AA Safety Battery Holder  
with 15cm UL1007 26AWG  
Wire and with Switch  
**57-347-0** Bulk  
**57-347-2** Package (2)



3 x AAA Safety Battery  
Holder with 15cm UL1007  
26AWG Wire  
**57-432-0** Bulk  
**57-432-1** Package



4 x AA Safety Battery Holder  
with 15cm UL1007 26AWG  
Wire and with Switch  
**57-349-0** Bulk  
**57-349-1** Package



4 x AAA Safety Battery  
Holder with Prong Snap  
**57-444-0** Bulk  
**57-444-1** Package



AAA Battery Holder with  
15cm UL1007 26AWG Wire  
and with Switch  
**57-411-0** Bulk  
**57-411-2** Package (2)



4 x AAA Safety Battery  
Holder with 15cm UL1007  
26AWG Wire and with Switch  
**57-445-0** Bulk  
**57-445-1** Package



2 x AAA Battery Holder with  
15cm UL1007 26AWG Wire  
**57-422-0** Bulk  
**57-422-2** Package (2)

**BATTERY SNAPS**



57-901-0



57-902-0

9 Volt battery snaps - 24AWG 150mm long

**57-901-0** 'I' type Bulk  
**57-902-0** 'T' type Bulk  
Use -10 for Display Package



2 x AAA Safety Battery  
Holder with 15cm UL1007  
26AWG Wire and with Switch  
**57-427-0** Bulk  
**57-427-2** Package (2)



9 Volt molded battery snaps - 24AWG 150mm long

**57-902M-0** 'T' type Bulk  
Use -5 for Display Package



3 x AAA Safety Battery  
Holder with Prong Snap  
**57-431-0** Bulk  
**57-431-1** Package

**Visit our Web Site at**  
**<http://www.mode-elec.com>**



## SPEAKER TERMINALS



4 push type terminals, color coded for any audio application. Overall size: 75mm x 20mm. Mounting holes 64mm centre to centre.

**58-094-0** Bulk  
**58-094-1** Pkg



Phenolic mounted push-type speaker terminals. 23 W x 50 L. Mounting holes 39.5 mm centre to centre.

**58-098-0** Bulk  
**58-098-2** Package (2)



Push type speaker terminals 20 W x 55 L. Mounting holes 45 mm centre to centre.

**58-099-0** Bulk  
**58-099-2** Package (2)

## TERMINAL BLOCKS

### SPECIFICATIONS

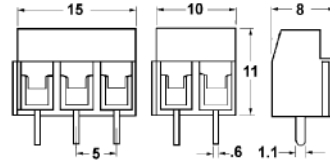
#### Materials:

Housing: Polyamid 6.6  
Terminals: Tin plated brass  
Contacts: Nickel plated brass

#### Electrical:

Ratings: 8A @ 300 Volts  
Wire size: 14 AWG maximum

These lock together forming a continuous 5mm spacing terminal block



**58-102-0** Bulk 2-position  
**58-102-3** Package (3)  
**58-103-0** Bulk 3-position  
**58-103-2** Package (2)



### SPECIFICATIONS

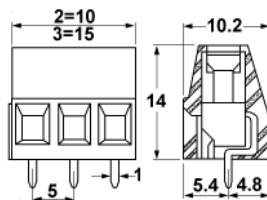
#### Materials:

Housing: Polyamid 6.6  
Terminals: Tin plated brass  
Contacts: Nickel plated brass

#### Electrical:

Ratings: 20 Amp @ 300 V  
Wire size: 12 AWG maximum

These lock together forming a continuous 5mm spacing terminal block

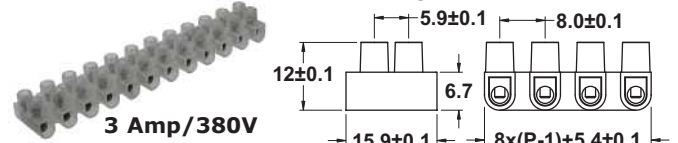


**58-112-0** Bulk 2-position  
**58-112-3** Package (3)  
**58-113-0** Bulk 3-position  
**58-113-2** Package (2)



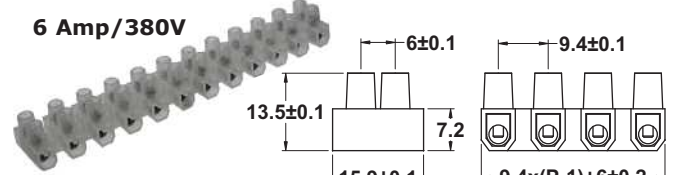
## TERMINAL BLOCKS

These 12 position flexible terminal blocks can be cut to length.



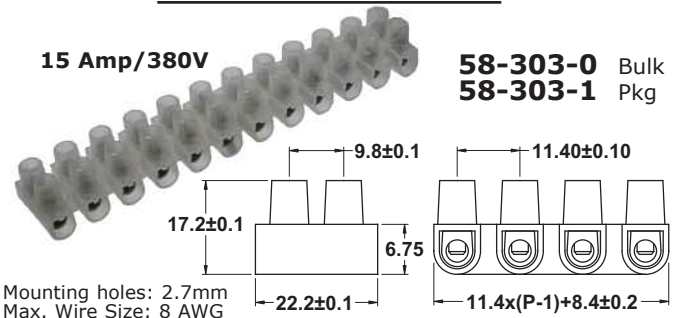
**58-301-0** Bulk  
**58-301-2** Pkg (2)

Mounting holes: 2.7mm  
Maximum Wire Size: 12 AWG



**58-302-0** Bulk  
**58-302-2** Pkg (2)

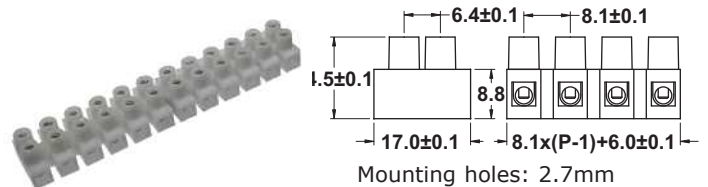
Mounting holes: 2.7mm  
Maximum Wire Size: 10 AWG



Mounting holes: 2.7mm  
Max. Wire Size: 8 AWG

**58-303-0** Bulk  
**58-303-1** Pkg

These flexible 12-position terminal blocks with wire protectors are made of Nylon 66, UL94V2 and are approved by cUR (E152546), VDE, FIMCO and CQC.



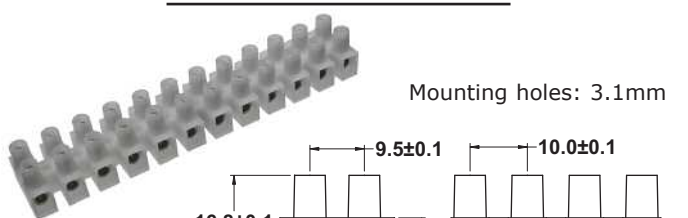
Mounting holes: 2.7mm



Current: cUR 10 Amps/300V  
VDE 17.5 Amps/450V  
Wire: cUR 12-22 AWG  
VDE 1.5 mm<sup>2</sup>



**58-308-0** Bulk  
**58-308-1** Pkg



Mounting holes: 3.1mm



Current: cUR 30 Amps/600V  
VDE 24 Amps/450V  
Wire: cUR 12-22 AWG  
VDE 2.5 mm<sup>2</sup>



**58-312-0** Bulk  
**58-312-1** Pkg

**We have many different types of terminal blocks available on special order. If you have a requirement, please contact Mode or your local Distributor for details and order quantities.**



**TERMINAL BLOCK  
20Amp 600VAC**

Suitable for wire sizes  
24 to 12 AWG

**58-425-0** Bulk



**TERMINAL BLOCK  
30Amp 600VAC**

Suitable for wire sizes  
22 to 10 AWG

**58-400-0** Bulk

**SIDE COVER FOR  
58-425-0 and 58-400-0**

**58-401-0** Bulk



**TERMINAL BLOCK  
40Amp 600VAC**

Suitable for wire sizes  
8 to 22 AWG

**58-402-0** Bulk

**SIDE COVER FOR  
58-402-0**

**58-403-0** Bulk



**TERMINAL BLOCK  
60Amp 600VAC**

Suitable for wire sizes  
6 to 18 AWG

**58-404-0** Bulk

**SIDE COVER FOR  
58-404-0**

**58-405-0** Bulk



**TERMINAL BLOCK  
75Amp 600VAC**

Suitable for wire sizes 6  
to 16 AWG

**58-406-0** Bulk

**SIDE COVER FOR  
58-406-0**

**58-407-0** Bulk



**DIN RAIL END  
STOPPER**

Suitable for locking  
terminals into position  
on the rail

**58-410-0** Bulk



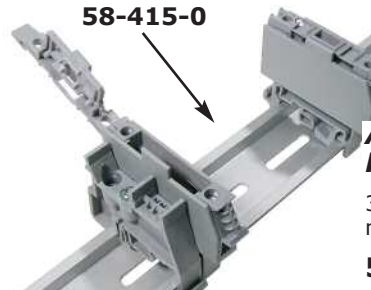
**FUSE TERMINAL**

5 x 20mm fuse - wire sizes 22 to  
10 AWG. Rated for 20 Amp fuse.

**58-412-0** Bulk

**SIDE COVER FOR  
58-412-0**

**58-413-0** Bulk



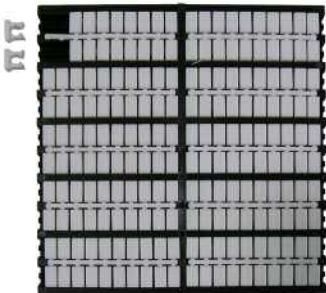
**58-415-0**

**ALUMINUM DIN  
RAIL**

35 x 7.5 mm - 1  
meter long

**58-415-0** Bulk

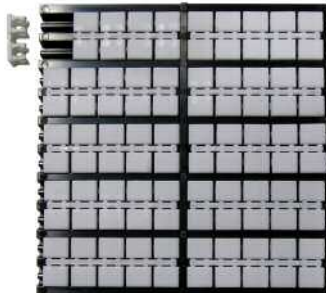
**SINGLE BLANK MARKERS**



Single blank markers suitable for the  
58-400-0, 58-402-0 and 58-425-0  
terminal blocks. 200/Tray

**58-426-0** Bulk

**DUAL BLANK MARKERS**



Dual blank markers suitable for the  
58-400-0, 58-402-0 and 58-425-0  
terminal blocks. 100/Tray

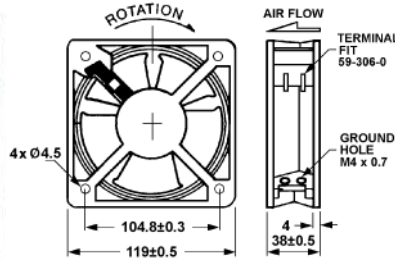
**58-426D-0** Bulk

**80 POSITION BRIDGE BAR  
FOR 58-425-0**



On the picture only 12 are shown.

**58-428-0** Bulk



**59-100-0**

**59-100-0**

115VAC  
120 x 120 x 38mm

Bearing: Sleeve  
Air flow: 101 CFM  
Load: .20 A (18 watts)  
Noise: 45 dbA  
Speed: 3000 RPM



**59-101-0**

115VAC  
120 x 120 x 38mm

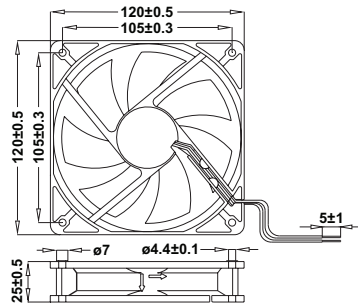
Bearing: Ball  
Air flow: 105 CFM  
Load: .20 A (18 watts)  
Noise: 40 dbA  
Speed: 2700 RPM



**59-114-0**

12VDC  
120 x 120 x 38mm

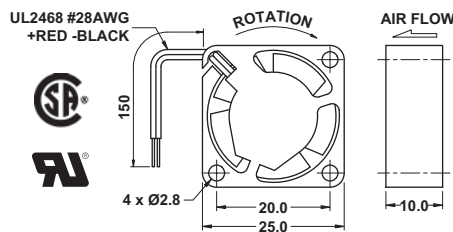
Bearing: Ball  
Air flow: 140 CFM  
Load: .55 A (6.6 watts)  
Noise: 43 dbA  
Speed: 2800 RPM



**59-115-0**

12VDC  
120 x 120 x 25mm

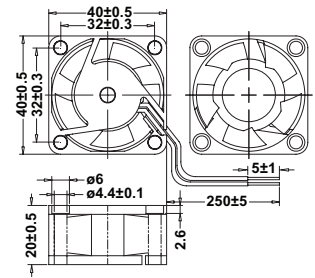
Bearing: Sleeve  
Air flow: 90 CFM  
Load: .25 A (3 watts)  
Noise: 33 dbA  
Speed: 2300 RPM



**59-225-0**

12VDC  
25 x 25 x 10mm

Bearing: Hypro  
Air flow: 1.8 CFM  
Load: .07 A (.8 watts)  
Noise: 15.6 dbA  
Speed: 8000 RPM



**59-245B-0**

**59-244-0**

12VDC  
40 x 40 x 20mm

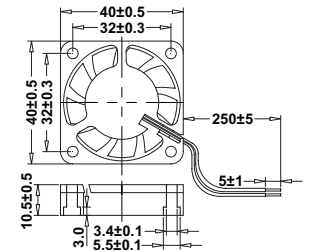
Bearing: Sleeve  
Air flow: 5.2 CFM  
Load: .05 A (.6 watts)  
Noise: 23 dbA  
Speed: 4500 RPM



**59-245B-0**

12VDC  
40 x 40 x 20mm

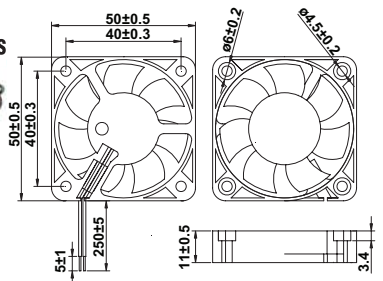
Bearing: Ball  
Air flow: 7.45 CFM  
Load: .08 A (.96 watts)  
Noise: 28 dbA  
Speed: 6500 RPM



**59-247-0**

12VDC  
40 x 40 x 10mm

Bearing: Ball  
Air flow: 6.45 CFM  
Load: .12 A (1.44 watts)  
Noise: 25 dbA  
Speed: 6600 RPM



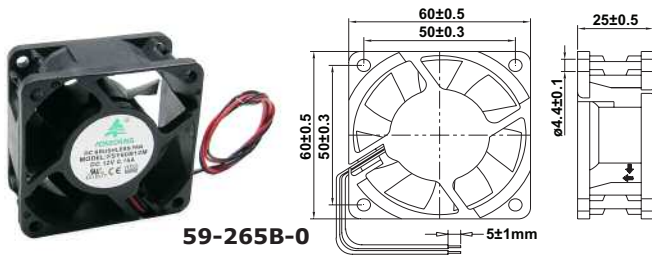
**59-254-0**

12VDC  
50 x 50 x 10mm

Bearing: Sleeve  
Air flow: 9.69 CFM  
Load: .12 A (1.44 watts)  
Noise: 31 dbA  
Speed: 5700 RPM

**MODE ELECTRONICS LTD.**  
211 - 2999 UNDERHILL AVE.,  
BURNABY, B.C., CANADA, V5A 3C2  
Phone: 604-435-6633  
Fax: 604-435-8890  
Toll Free: 1-800-663-4992  
Web Site: www.mode-elec.com





**59-264-0**

12VDC  
60 x 60 x 25mm

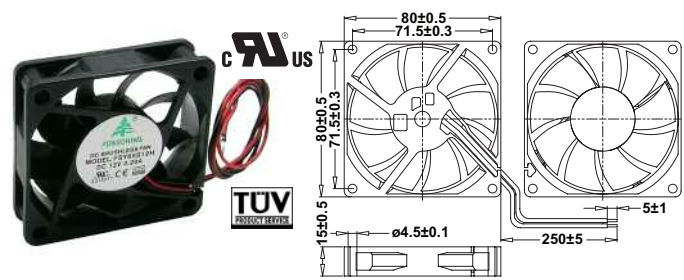
Bearing: Sleeve  
Air flow: 18 CFM  
Load: .16 A (1.9 watts)  
Noise: 31 dbA  
Speed: 3800 RPM



**59-265B-0**

12VDC  
60 x 60 x 25mm

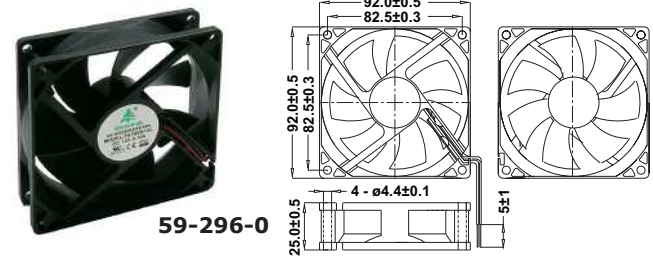
Bearing: Ball  
Air flow: 18 CFM  
Load: .15 A (1.8 watts)  
Noise: 32 dbA  
Speed: 1800 RPM



**59-286-0**

12VDC  
80 x 80 x 15mm

Bearing: Sleeve  
Air flow: 36 CFM  
Load: .22 A (2.64 watts)  
Noise: 23 dbA  
Speed: 3600 RPM



**59-295-0**

12VDC  
92 x 92 x 25mm

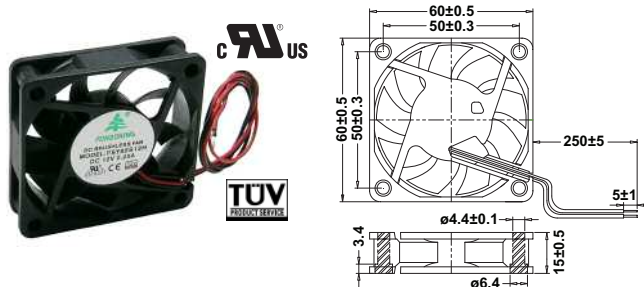
Bearing: Ball  
Air flow: 54 CFM  
Load: .22 A (2.64 watts)  
Noise: 38 dbA  
Speed: 2800 RPM



**59-296-0**

12VDC  
92 x 92 x 25mm

Bearing: Sleeve  
Air flow: 23 CFM  
Load: .1 A (1.2 watts)  
Noise: 38 dbA  
Speed: 2100 RPM



**59-266-0**

12VDC  
60 x 60 x 15mm

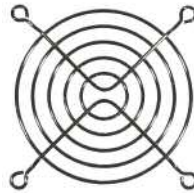
Bearing: Sleeve  
Air flow: 20 CFM  
Load: .2 A (2.4 watts)  
Noise: 32 dbA  
Speed: 4500 RPM

**FAN ACCESSORIES**



600mm power cord for  
59-100-0 and 59-101-0

**59-306-0** Bulk



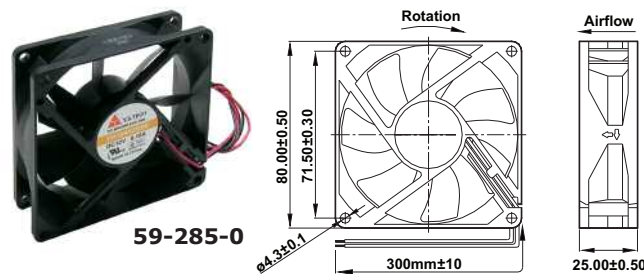
Nickel plated finger guards

- 59-310-0** 120mm
- 59-316-0** 60mm
- 59-318-0** 80mm
- 59-319-0** 92mm



Fan filter kits

- 59-330-0** 40mm
- 59-331-0** 50mm
- 59-332-0** 60mm
- 59-333-0** 80mm
- 59-334-0** 92mm
- 59-335-0** 120mm



**59-284-0**

12VDC  
80 x 80 x 25mm

Bearing: Sleeve  
Air flow: 27 CFM  
Load: .12 A (1.4 watts)  
Noise: 25 dbA  
Speed: 2200 RPM



**59-285-0**

12VDC  
80 x 80 x 25mm

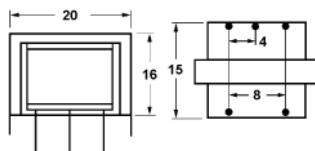
Bearing: Ball  
Air flow: 37 CFM  
Load: .16 A (1.9 watts)  
Noise: 30 dbA  
Speed: 2500 RPM



**The fans shown in this catalog are our most popular types. If you require a different size or voltage, please contact us or your local Mode distributor for price and availability.**



## AUDIO TRANSFORMERS



Primary: 500Ω center-tapped      Secondary: 8Ω

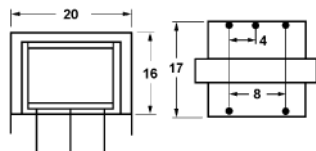
**60-281-0**      Bulk

Primary: 1.2KΩ center-tapped      Secondary: 8Ω

**60-282-0**      Bulk

Use -1 for Display Package

## 600Ω : 600Ω TRANSFORMER



Center pin on primary side is an electrostatic shield.

Primary: 600Ω  
Secondary: 600Ω  
Freq. response: 300Hz - 3500Hz  
Max. current: 160mA

**60-606-0** Bulk      **60-606-1** Display Pkg.

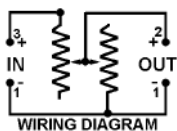
## AUDIO L PADS



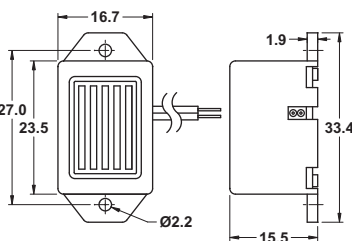
8 ohm 15 watt balanced impedance audio level control.

**61-111-0** Mono Bulk  
**61-112-0** Stereo Bulk

Use -1 for Display Package



## BUZZERS

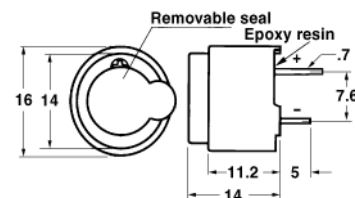


**Solid state buzzer 100mm leads**

Current: 30mA  
Sound output: 85db @ 30cm (61-211-0)  
88db @ 30cm (61-212-0)  
Frequency: 400Hz

**61-211-0** 4-8VDC  
**61-212-0** 8-16VDC

Use -1 for Display Package

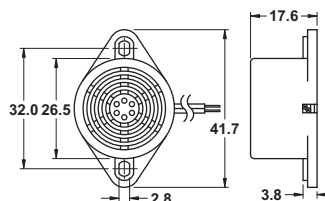


Magnetic buzzer. Complete with internal driver.

Current: 40mA  
Output: 85db @ 10cm (61-223-0)  
90db @ 10cm (61-224-0)  
Freq.: 2.3KHz

**61-223-0** 4-8 VDC  
**61-224-0** 8-16 VDC

Use -1 for Display package



Panel mount buzzer with 100mm leads.

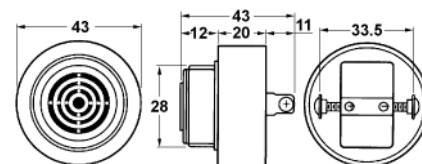
Current: 30mA (61-231-0)  
40mA (61-232-0 & 61-233-0)  
Output: 85db @ 30cm (61-231-0)  
88db @ 30cm (61-232-0)  
90db @ 30cm (61-233-0)  
Freq.: 400 Hz

**61-231-0** 4-8 VDC  
**61-232-0** 8-16 VDC  
**61-233-0** 20-28 VDC

Use -1 for Display Package



Panel mount audio alarms.  
Input voltage: 6-28 VDC  
Current: 15mA  
Output: 80db @ 100cm  
Freq.: 2.9KHz

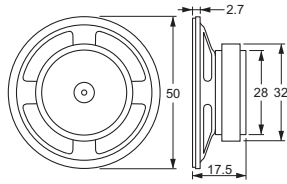


**61-301-0** Continuous tone  
**61-302-0** Pulsed tone

Use -1 for Display Package

**The buzzers shown in this catalog are our most popular types. If you require a different style, please contact us or your local Mode distributor for price and availability.**

**ROUND MINIATURE SPEAKERS**

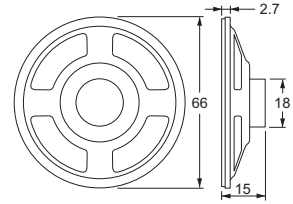


Frequency range:  
Nominal impedance:  
Power:  
Size:  
Alnico magnets.

300Hz - 4KHz.  
8Ω  
500mW  
50mm (2")

**61-650-0** Bulk

**61-650-1** Pkg.



Frequency range:  
Nominal impedance:  
Power:  
Size:  
Alnico magnets.

300Hz - 3.5KHz.  
8Ω  
250mW  
65mm (2.5")

**61-666-0** Bulk

**61-666-1** Pkg.

**POTENTIOMETERS**

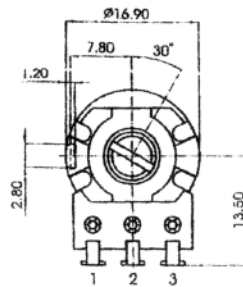
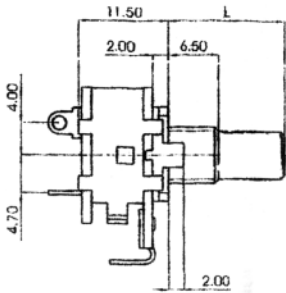
.125 watt pots with 1 amp switch.



Resistance Tolerance: ±20%  
0.125W @ 150VAC

- 62-222-0** 1K linear
- 62-223-0** 5K linear
- 62-224-0** 10K linear
- 62-227-0** 100K linear
- 62-229-0** 1M linear

Use -1 for Display Package



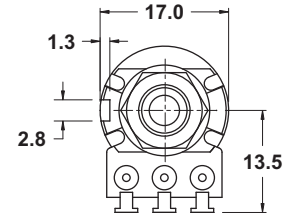
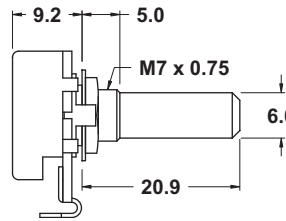
.06 watt potentiometers



Resistance Tolerance: ±20%  
0.06 W @ 150 VAC

- 62-243-0** 5K linear
- 62-234-0** 10K log (audio)
- 62-244-0** 10K linear
- 62-246-0** 50K linear
- 62-247-0** 100K linear
- 62-248-0** 500K linear

Use -1 for Display Package

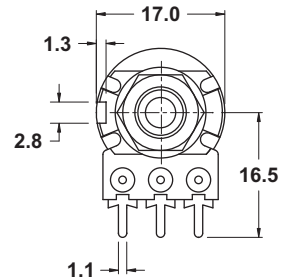
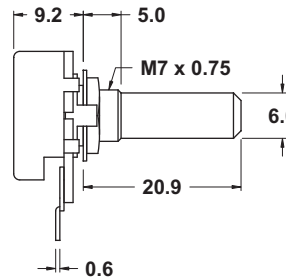


.06 watt PC mount pots.



Resistance Tolerance: ±20%  
0.06W @ 150VAC

- 62-284-0** 10K linear
- 62-284-1** Display Package



**Visit our Web Site at**  
**<http://www.mode-elec.com>**

## 25W SWITCHING POWER SUPPLY - CLOSED FRAME



CB CE

- Universal Input 85 to 264VAC.
- Low Power Consumption.
- Approvals: cURus / TUV / CB / CE.
- Protections: Over Load / Over Voltage / Short Circuit.
- 100% Full Load High Temperature Burn-in Test.
- 2 Years Warranty.
- Packaged in a Box.

Input Voltage Range: 85~264VAC  
 Input Frequency: 47~63Hz  
 Output Adjustment Range:  $\pm 10\%$  Rated Output Voltage  
 Line Regulation:  $\leq 0.5\%$

Part No.	DC output	Load regul.	Efficiency
<b>67-1225-1</b>	12V, 0~2.1A	0.5%	77%

## 36W SWITCHING POWER SUPPLY - CLOSED FRAME



- Universal AC input.
- No load power consumptin  $< 0.2W$ .
- Approvals: cURus / CE.
- Protections: Short Circuit / Overload.
- Cooling by free air convection.
- 100% pass aging test.
- 3 Years Warranty.
- Packaged in a Box.

Input Frequency: 47~63Hz  
 Voltage regulation range:  $\pm 10\%$  Rated Output Voltage  
 Load adjustment rate:  $\pm 0.5\%$   
 Voltage accuracy:  $\pm 1\%$

Part No.	DC output	Efficiency
<b>67-2425A-1</b>	24V, 0~1.5A	88%

## 60W SWITCHING POWER SUPPLY - CLOSED FRAME



CB CE

- Universal Input 85 to 264VAC.
- Low Power Consumption.
- Approvals: cURus / TUV / CB / CE.
- Protections: Over Load / Over Voltage / Short Circuit.
- 100% Full Load High Temperature Burn-in Test.
- 2 Years Warranty.
- Packaged in a Box.

Input Voltage Range: 85~264VAC  
 Input Frequency: 47~63Hz  
 Output Adjustment Range:  $\pm 10\%$  Rated Output Voltage  
 Line Regulation:  $\leq 0.5\%$

Part No.	DC output	Load regul.	Efficiency
<b>67-1560-1</b>	15V, 0~4A	0.5%	78%

## 72W SWITCHING POWER SUPPLY - CLOSED FRAME



- Universal AC input.
- No load power consumptin  $< 0.3W$ .
- Approvals: cURus / CE.
- Protections: Short Circuit / Overload.
- Cooling by free air convection.
- 100% pass aging test.
- 3 Years Warranty.
- Packaged in a Box.

Input Frequency: 47~63Hz  
 Voltage regulation range:  $\pm 10\%$  Rated Output Voltage  
 Load adjustment rate:  $\pm 0.5\%$   
 Voltage accuracy:  $\pm 1\%$

Part No.	DC output	Efficiency
<b>67-1260A-1</b>	12V, 0~6A	88%







**NOTE:**

Some AC Adapters are unregulated. All voltage ratings shown are at rated load. For instance a 12volt /500mA unit has an output of 12volts at 500mA. If the load is less than 500mA the output voltage will be higher. Exceeding the output current will damage the adapter. Approximate output graphs are available at the bottom of this page.



CSA/UL wall mount adapters with **2.1mm or 2.5 mm output plug**. Most available in **centre negative** or **centre positive**.



68-901A-1

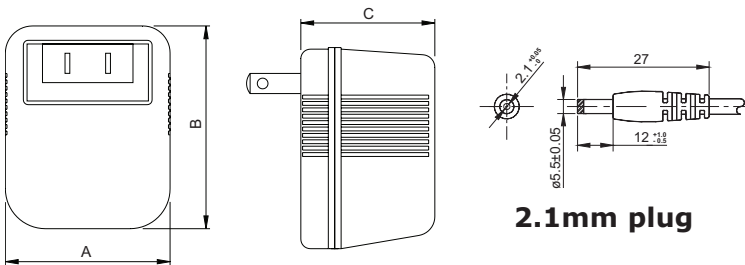


68-121A-1

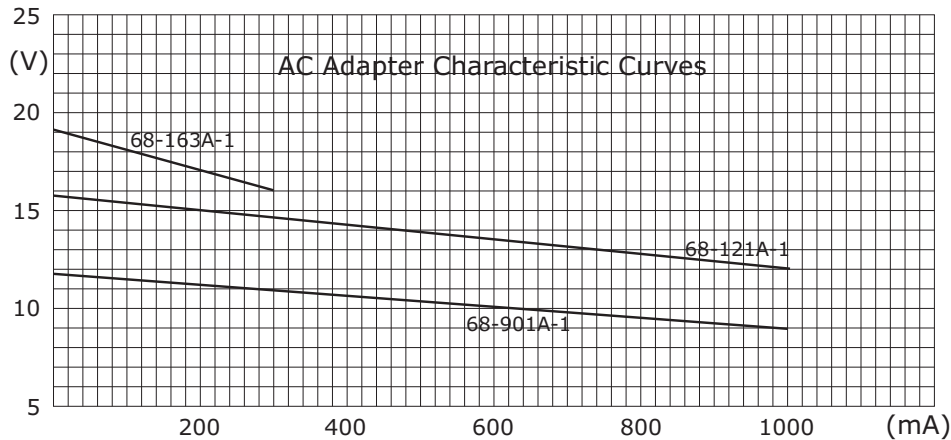
**\* See notes below**

<b>68-650-1</b>	6VDC @ 500mA	centre negative *
<b>68-650P-1</b>	6VDC @ 500mA	centre positive *
<b>68-901A-1</b>	9VAC @ 1 Amp	AC Output
<b>68-950-1</b>	9VDC @ 500mA	centre negative *
<b>68-950P-1</b>	9VDC @ 500mA	centre positive *
<b>68-121-1</b>	12VDC @ 1A	centre negative *
<b>68-121P-1</b>	12VDC @ 1A	centre positive *
<b>68-121A-1</b>	12VAC @ 1A	AC Output
<b>68-121AS-1</b>	12VAC @ 1A	AC Output, no plug
<b>68-125-1</b>	12VDC @ 500mA	centre negative *
<b>68-125P-1</b>	12VDC @ 500mA	centre positive *
<b>68-125P-2.5</b>	12VDC @ 500mA	centre positive *
<b>68-128-1</b>	12VDC @ 800mA	centre negative *
<b>68-128P-1</b>	12VDC @ 800mA	centre positive *
<b>68-128P-2.5</b>	12VDC @ 800mA	centre positive *
<b>68-163A-1</b>	16VAC @ 300mA	AC Output
<b>68-246-1</b>	24VDC @ 600mA	centre negative *

**ADAPTER DIMENSIONS**



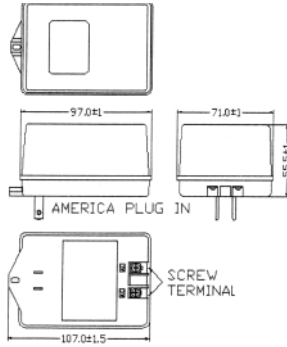
Part #	A [mm]	B [mm]	C [mm]
68-901A-1	58.9	84.0	42.0
68-121A-1	58.0	74.0	48.0
68-121AS-1	55.0	69.0	40.0
68-163A-1	50.0	62.0	41.5



**\* IMPORTANT NOTE ABOUT AC ADAPTERS:**

- 68-650-1 is now replaced by 68-6500S-1.
- 68-650P-1 is now replaced by 68-6500PS-1.
- 68-950-1 is now replaced by 68-9006S-1 (600mA).
- 68-950P-1 is now replaced by 68-9006PS-1 (600mA).
- 68-121-1 remains the same part number, but is now replaced with a switcher.
- 68-121P-1 remains the same part number, but is now replaced with a switcher.
- 68-125-1 is now replaced by 68-1206S-1 (600mA).
- 68-125P-1 is now replaced by 68-1206PS-1 (600mA).
- 68-125P-2.5 remains the same part number, but is now replaced with a switcher.
- 68-128-1 remains the same part number, but is now replaced with a switcher.
- 68-128P-1 remains the same part number, but is now replaced with a switcher.
- 68-128P-2.5 remains the same part number, but is now replaced with a switcher.
- 68-246-1 remains the same part number, but is now replaced with a switcher.

**SCREW TERMINAL AC ADAPTERS**



**Input:**  
Voltage: 120V  
Frequency: 60Hz  
Power: 48VA

**Output:**  
Voltage: 16.5VAC ± 5% (**68-162AS-1**)  
24.5VAC ± 5% (**68-241AS-1**)  
Current: 2.42A (**68-162AS-1**)  
1.67A (**68-241AS-1**)  
Power: 40VA

Operating Temp.: -10°C ~ 40°C

**68-162AS-1** 16.5VAC ± 5%  
**68-241AS-1** 24.5VAC ± 5%

**2.1mm (FEMALE) - 2.5mm (MALE) DC ADAPTER**



The 2.1mm to 2.5mm DC Power Plug Adapter is designed to convert your 2.1mm plug to a 2.5mm plug

**68-100-0** Bulk  
**68-100-1** Display Package



**5VDC 1Amp USB CHARGER**



Small, compact 1Amp USB charger suitable for most cell phones including iPhone, Samsung, etc. also, iPad, iPod and other makes of tablets. Will basically charge any device that uses USB port to charge.

**68-105-0** Bulk  
**68-105-1** Display Package

**2.1mm POLARITY CHANGER**



Center positive jack to center negative plug and vice versa (Black color)

**68-102-0** Bulk  
**68-102-1** Display Package



**USB CIGARETTE LIGHTER PLUG CHARGER**

- Input: 12VDC 1Amp Max.
- Dual 5VDC 1Amp standard USB output ideal for charging devices such as smartphones, MP3 players, iPad, iPod, GPS etc
- Built-in smart protector (overload protection, short circuit protection) makes it safe and reliable
- 2-side spring design to prevent plugs to slide from cigarette lighter
- Low power consumption, low operating temperature and long working life
- LED light shows charging status

**68-106-1** Display Package

**2.1 to 2.5mm POLARITY CHANGER**



Center positive 2.1mm jack to center negative 2.5mm plug and vice versa (Gray color)

**68-103-0** Bulk  
**68-103-1** Display Package



**COMPACT TRAVEL ADAPTER**

This compact travel adapter contains plug adapters for almost all countries including UK, Europe, US/Canada, Australia, etc. and the best part is they are nested in a small, easy to pack box. Also includes a handy guide to show the plug types in each country.

**68-110-1** Display Package



## UNIVERSAL TRAVEL ADAPTER WITH USB



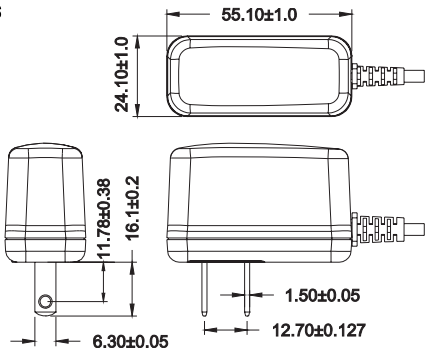
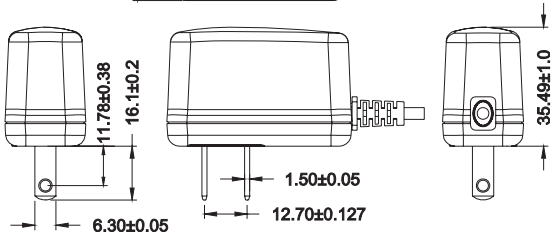
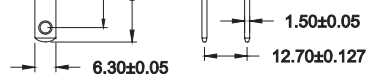


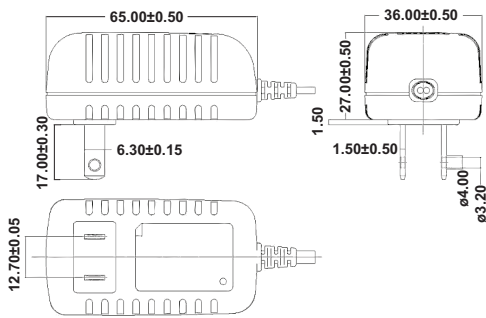
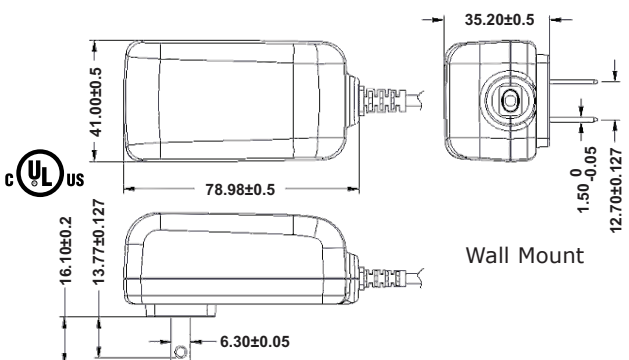
With this adapter you can use power in over 150 countries. Compact design with plug control knob. USB can be used for iPod, iPhone, Blackberry, Motorola, Nokia, Samsung and other powered 5VDC devices.

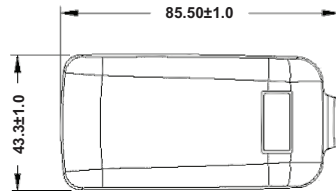
- AC power rated at 6A
- USB power rated at 500mA
- Can be used with power outlets in USA/Europe/Australia/UK/Japan/PRC
- One universal outlet fits most standard plugs.
- Comes with power indicator
- Plastic housing material: PC-94V0

**68-111-1** Display Package

## SWITCHING POWER SUPPLIES REGULATED OUTPUT

These switching power supplies will accept input voltages of 90-240VAC 50/60Hz and will provide a constant output voltage (within approx. 10%) from no load to full rated current load. All are cULus approved as well as CE and other approvals. The desk top units come complete with power cords.

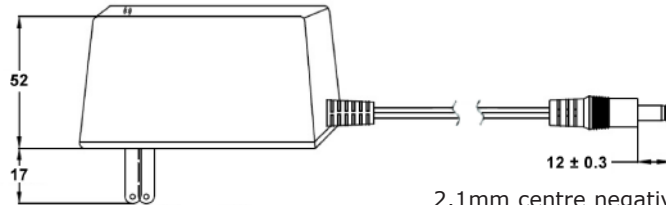
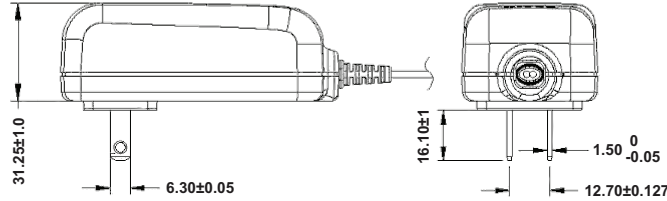
 		2.1mm centre positive Wall Mount <b>68-6500PS-1</b> 6VDC @ 0.5A <b>68-9006PS-1</b> 9VDC @ 0.6A
		2.1mm centre negative Wall Mount <b>68-6500S-1</b> 6VDC @ 0.5A <b>68-9006S-1</b> 9VDC @ 0.6A
		2.5mm centre positive Wall Mount <b>68-125P-2.5</b> 12VDC @ 0.5A
 		2.1mm centre positive Wall Mount <b>68-1206PS-1</b> 12VDC @ 0.6A 2.1mm centre negative Wall Mount <b>68-1206S-1</b> 12VDC @ 0.6A
		2.1mm centre positive <b>68-5020PS-1</b> 5VDC @ 2A <b>68-1210PS-1</b> 12VDC @ 1A <b>68-121P-1</b> 12VDC @ 1A <b>68-128P-1</b> 12VDC @ 0.8A 2.1mm centre negative <b>68-121-1</b> 12VDC @ 1A <b>68-128-1</b> 12VDC @ 0.8A 2.5mm centre positive <b>68-128P-2.5</b> 12VDC @ 0.8A



2.1mm centre positive  
Wall Mount

**68-5030PS-1**  
**68-6020PS-1**  
**68-9015PS-1**  
**68-122P-1**

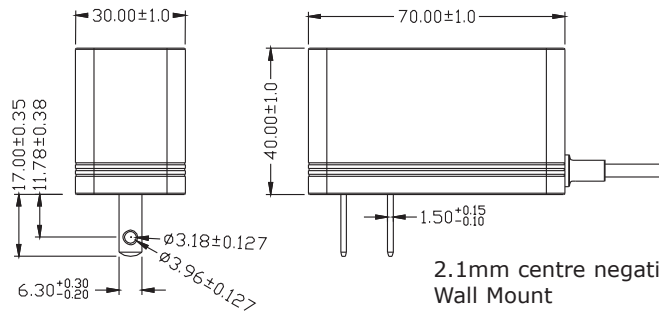
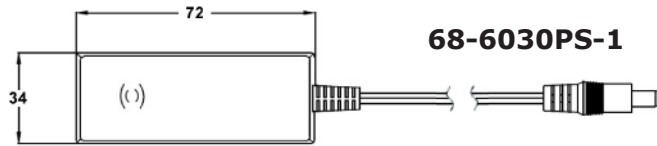
5VDC @ 3A  
6VDC @ 2A  
9VDC @ 1.5A  
12VDC @ 1.25A



2.1mm centre negative  
Wall Mount

**68-6030PS-1**

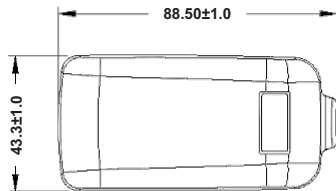
6VDC @ 3A



2.1mm centre negative  
Wall Mount

**68-122-1**  
**68-246-1**

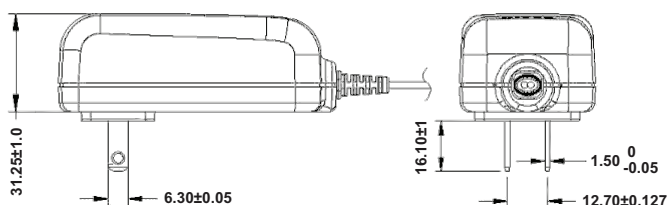
12VDC @ 1.25A  
24VDC @ 0.6A



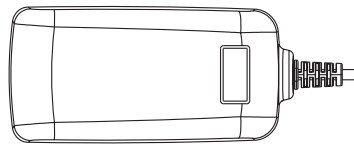
2.1mm centre positive  
Wall Mount

**68-9022PS-1**  
**68-1216PS-1**  
**68-2408PS-1**

9VDC @ 2.2A  
12VDC @ 1.6A  
24VDC @ 0.8A

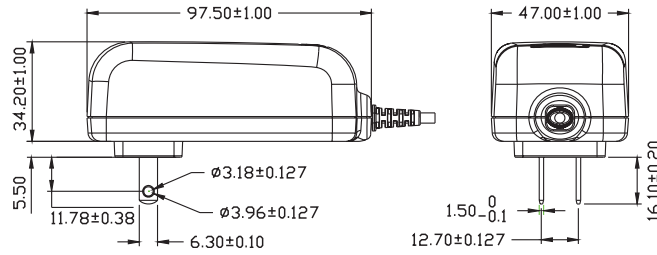






2.1mm centre positive  
Wall Mount

**68-1225PS-1** 12VDC @ 2.5A

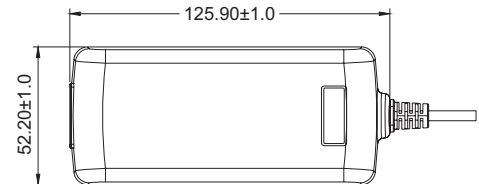
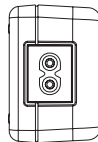


2.1mm centre positive  
Desk Top



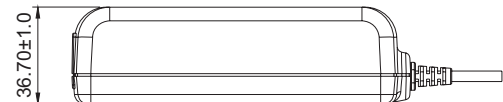
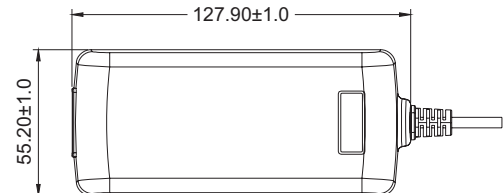
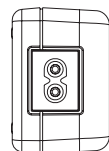
**68-5050PS-1** 5VDC @ 5A

**68-1230PS-1** 12VDC @ 3A



2.1mm centre positive  
Desk Top

**68-2420PS-1** 24VDC @ 2A



2.1mm centre positive  
Desk Top

**68-2427PS-1** 24VDC @ 2.7A



2.1mm centre positive  
Desk Top



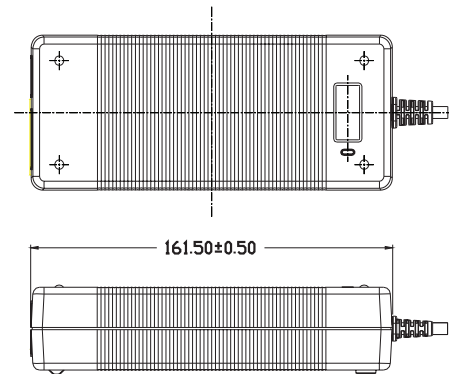
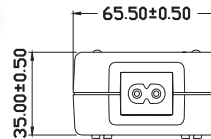
**68-1250PS-1** 12VDC @ 5A



**68-1533PS-1** 15VDC @ 3.3A



2.1mm centre positive  
Desk Top



**68-1270PS-1** 12VDC @ 7A



**UNIVERSAL SWITCHING ADAPTER  
REGULATED OUTPUT**

This multi-output switching power supply can be used for the output voltages listed below with loads from 0-1.7Amps. The unit comes with an assortment of changeable plugs suitable for most requirements. The plugs can be easily changed to centre positive or negative. The output voltage is selected by a switch on the back of the adapter.

**68-519-1** 3, 4.5, 6, 7.5, 9, 12VDC @ 1.7A

*A note about regulated switching power supplies: some use a sense return line at the output plug to provide a consistent voltage at the output plug regardless of current draw. Removing the output socket or cutting the cord on these adapters will remove the sense line and cause the output voltage to soar, damaging the circuit and voiding your warranty. Do not modify this adapter.*

**NOTE:** There are many more adapters available on special order. If our standard stock units are not suitable please check for availability and minimum order quantities. We would be pleased to quote on your requirements.

## EARPHONES



- 70-216-0** 32Ω 3.5mm plug 3' black cord
- 70-217-0** 32Ω 3.5mm plug 1.8m white cord
- 70-218-0** 8Ω 3.5mm plug 6' twisted pink
- 70-220-0** 8Ω 2.5mm plug 3' black cord

Use -1 for Display Package

## MICROPHONE



### 72-118-1

Diecast professional uni-directional microphone.  
 Impedance: 600Ω  
 Frequency response: 60Hz to 12KHz  
 Sensitivity: -73db @ 1KHz  
 Weight: 285 grams  
 Complete with storage case, 20' cord and bracket.



## EXTENSION SPEAKER

### 70-608-1

8Ω @ 5 watts  
 113L x 110W x 66D (mm)  
 2 meter cord with 3.5mm plug  
 Detachable bracket.

## OUTDOOR HORN SPEAKERS



### 70-703-1

8Ω @ 15 watts  
 360Hz - 7.5KHz  
 5" x 8" opening  
 8" length  
 12" wire leads  
 Green ABS horn, metal mounting bracket



### 70-704-1

8Ω @ 20 watts  
 360Hz - 7.5KHz  
 4.5" x 8" opening.  
 9 1/4" length, 12" wire leads. White ABS plastic.



### 70-706-1

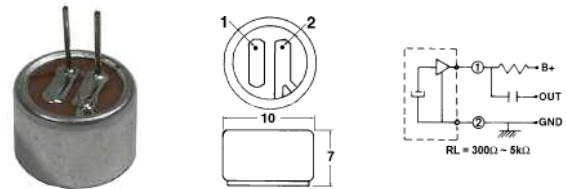
8Ω @ 10 watts 500Hz - 7.8KHz  
 5" diameter opening. 6" wire leads. All metal with swivel bracket.



### 70-707-1

8Ω @ 10 watts 500Hz - 7.8KHz  
 5" diameter opening, 6" wire leads. White ABS plastic.

## ELECTRET MICROPHONE



### 72-160-0

Omni-directional electret cartridge.  
 Impedance: same as load resistor (RL)  
 Sensitivity: -69db (Vcc=4.5V RL=1KΩ)  
 Freq. response: 50Hz - 13KHz  
 Input voltage: 1.5V to 10V (Typ. 4.5V)  
 Current: 0.6mA maximum  
 S/N ratio: over 40db

Use -1 for Display Package

## WIRE TERMINALS

### INSULATED RING TERMINALS

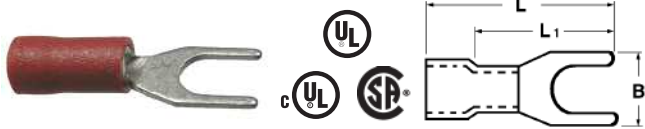


Wire Range	Stud Size	Bulk Number	Pkg.	Dimensions			Cert.
				B	L	L1	
22-16 (Red)	#4	<b>73-032-0</b>	-100	5.5	17.8	12.8	UL/CUL
	#6	<b>73-033-0</b>	-100	5.5	17.8	12.8	UL/CUL
	#8	<b>73-034-0</b>	-100	6.6	20.1	15.1	UL/CUL
	#10	<b>73-035-0</b>	-100	8.0	21.5	16.5	UL/CUL
	1/4"	<b>73-036-0</b>	-100	11.6	27.0	22.5	UL/CUL
16-14 (Blue)	#6	<b>73-043-0</b>	-100	6.6	18.3	12.8	UL/CUL
	#8	<b>73-044-0</b>	-100	6.6	19.7	13.5	UL/CUL
	#10	<b>73-045-0</b>	-100	8.5	21.5	16.5	UL/CUL
	1/4"	<b>73-046-0</b>	-50	12.0	27.0	22.6	UL/CUL
12-10 (Yel)	#8	<b>73-054-0</b>	-50	7.2	23.0	15.2	UL/CUL
	#10	<b>73-055-0</b>	-50	9.5	25.0	19.3	UL/CUL
	1/4"	<b>73-056-0</b>	-50	12.0	29.5	25.3	UL/CUL

Bulk speaker wire is located on Page 66



**INSULATED SPADE TERMINALS**



Wire Range	Stud Size	Bulk Number	Pkg.	Dimensions			Cert.
				B	L	L1	
22-16 (Red)	#4	<b>73-132-0</b>	-100	5.7	21.2	16.2	UL/CUL/CSA
	#6	<b>73-133-0</b>	-100	6.4	21.2	16.2	UL/CUL/CSA
	#8	<b>73-134-0</b>	-100	6.4	21.2	16.2	UL/CUL/CSA
	#10	<b>73-135-0</b>	-100	8.1	21.2	16.2	UL/CUL/CSA
16-14 (Blue)	#6	<b>73-143-0</b>	-100	5.7	21.2	16.2	UL/CUL/CSA
	#8	<b>73-144-0</b>	-100	6.4	21.2	16.2	UL/CUL/CSA
	#10	<b>73-145-0</b>	-100	7.9	21.2	16.2	UL/CUL/CSA
	1/4"	<b>73-146-0</b>	-100	9.3	21.2	16.2	UL/CUL/CSA
12-10 (Yel)	#8	<b>73-154-0</b>	-50	8.3	25.5	19.0	UL/CUL/CSA
	#10	<b>73-155-0</b>	-50	9.0	25.5	17.7	UL/CUL/CSA
	1/4"	<b>73-156-0</b>	-50	12.0	29.5	21.0	UL/CSA

**INSULATED FLANGED SPADE TERMINALS**



Wire Range	Stud Size	Bulk Number	Pkg.	Dimensions			Cert.
				B	L	L1	
22-16 (Red)	#6	<b>73-233-0</b>	-100	7.5	19.0	14.0	UL/CUL
	#8	<b>73-234-0</b>	-100	7.5	19.0	14.0	UL/CUL
	#10	<b>73-235-0</b>	-100	7.5	19.0	14.0	UL/CUL
16-14 (Blue)	#6	<b>73-243-0</b>	-100	7.5	19.5	14.5	UL/CUL
	#8	<b>73-244-0</b>	-100	7.5	19.5	14.5	UL/CUL
	#10	<b>73-245-0</b>	-100	7.5	19.5	14.5	UL/CUL
12-10 (Yel)	#10	<b>73-255-0</b>	-50	8.5	25.2	19.0	UL/CUL

**INSULATED FEMALE QUICK CONNECTS**



Wire Range	Tab Size	Bulk Number	Pkg.	Dimensions			Cert.
				B	L	L1	
22-16 (Red)	.110"	<b>73-331-0</b>	-100	3.8	19.5	15.0	UL/CUL/CSA
	.187"	<b>73-333-0</b>	-100	5.6	19.0	14.0	UL/CUL/CSA
	.250"	<b>73-336-0</b>	-100	7.4	21.0	14.0	UL/CUL/CSA
16-14 (Blue)	.110"	<b>73-341-0</b>	-100	3.8	19.0	14.0	UL/CUL/CSA
	.187"	<b>73-343-0</b>	-100	5.6	19.0	14.0	UL/CUL/CSA
	.250"	<b>73-346-0</b>	-100	7.4	21.0	16.0	UL/CUL/CSA
12-10 (Yel)	.250"	<b>73-356-0</b>	-50	7.4	21.0	16.0	UL/CUL/CSA

**INSULATED MALE QUICK CONNECTS**



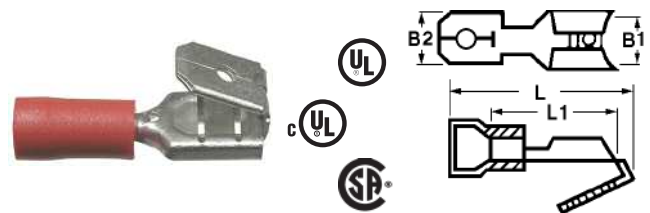
Wire Range	Tab Size	Bulk Number	Pkg.	Dimensions			Cert.
				B	L	L1	
22-16 (Red)	.110"	<b>73-431-0</b>	-100	2.80	20.0	15.5	
	.187"	<b>73-433-0</b>	-100	4.80	20.0	15.0	UL/CUL
	.250"	<b>73-436-0</b>	-100	6.35	21.0	16.0	UL/CUL/CSA
16-14 (Blue)	.110"	<b>73-441-0</b>	-100	2.80	20.0	15.5	
	.187"	<b>73-443-0</b>	-100	4.80	20.0	15.0	UL/CUL
	.250"	<b>73-446-0</b>	-100	6.35	21.0	16.0	UL/CUL/CSA
12-10 (Yel)	.250"	<b>73-456-0</b>	-50	6.35	25.0	18.0	UL/CUL/CSA

**FULLY INSULATED FEMALE QUICK CONNECTS**



Wire Range	Tab Size	Bulk Number	Pkg.	Dimensions			Cert.
				B	L	L1	
22-16 (Red)	.187"	<b>73-334-0</b>	-50	5.6	20.0	15.0	UL/CUL/CSA
	.250"	<b>73-337-0</b>	-50	7.4	21.5	16.5	UL/CUL/CSA
16-14 (Blue)	.187"	<b>73-344-0</b>	-50	5.6	20.0	15.0	UL/CUL/CSA
	.250"	<b>73-347-0</b>	-50	7.4	21.5	16.5	UL/CUL/CSA
12-10 (Yel)	.250"	<b>73-357-0</b>	-50	7.4	25.5	20.5	UL/CUL/CSA

**PIGGYBACK QUICK CONNECTS**



Wire Range	Tab Size	Bulk Number	Pkg.	Dimensions			Cert.
				B	L	L1	
22-16 (Red)	.250"	<b>73-338-0</b>	-50	7.4	21.5	16.5	UL/CUL/CSA
16-14 (Blue)	.250"	<b>73-348-0</b>	-50	7.4	21.5	16.5	UL/CUL/CSA

**BUTT CONNECTORS**



Wire Range	Bulk Number	Pkg.	Dimensions		Cert.
			L	L1	
22-16 (Red)	<b>73-730-0</b>	-100	24.6	15.0	UL/CUL/CSA
16-14 (Blue)	<b>73-740-0</b>	-50	24.6	15.0	UL/CUL/CSA
12-10 (Yel)	<b>73-750-0</b>	-50	26.5	15.0	UL/CUL/CSA





## HEAT SHRINK TERMINALS



Wire Range	Bulk Number	Pkg.	Dimensions		Cert.
			L	D	
22-18 (Red)	<b>73-732-0</b>	-25	38.0	1.70	CSA
16-14 (Blue)	<b>73-742-0</b>	-25	38.0	2.46	CSA
12-10 (Yel)	<b>73-752-0</b>	-25	42.0	3.60	CSA

## MALE BULLET CONNECTORS



Wire Range	Tab Size	Bulk Number	Pkg.	Dimensions		
				Bø	L	L1
22-16 (Red)	.157"	<b>73-632-0</b>	-100	4.0	21.6	16.3
16-14 (Blue)	.157"	<b>73-642-0</b>	-100	4.0	21.6	16.3
	.197"	<b>73-644-0</b>	-100	5.0	21.2	16.2
12-10 (Yel)	.197"	<b>73-654-0</b>	-100	5.0	23.8	17.0

## FEMALE BULLET CONNECTORS



Wire Range	Tab Size	Bulk Number	Pkg.	Dimensions		
				Bø	L	L1
22-16 (Red)	.154"	<b>73-631-0</b>	-100	3.9	24.0	16.5
16-14 (Blue)	.154"	<b>73-641-0</b>	-100	3.9	24.0	16.5
	.193"	<b>73-643-0</b>	-100	4.9	24.0	16.5
12-10 (Yel)	.193"	<b>73-653-0</b>	-100	4.9	24.0	16.5

## CLOSED END CONNECTORS



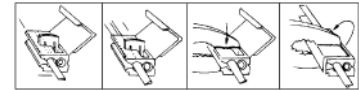
Wire Range	Bulk Number	Pkg.	Dimensions				Cert.
			d	D	L	L1	
22-18 (Clear)	<b>73-830-0</b>	-50	2.3	6.5	15.2	7.0	UL/CSA
16-14 (Clear)	<b>73-840-0</b>	-50	3.0	6.8	15.2	7.0	UL/CSA
12-10 (Clear)	<b>73-850-0</b>	-50	4.0	9.5	16.6	9.0	UL/CSA

## TWIST-ON WIRE NUTS



Bulk Number	Pkg.	Color	Min. Wire	Max. Wire	Cert.
<b>73-961-0</b>	-50	Grey	#22x3	#16x2	UL/CSA
<b>73-962-0</b>	-50	Blue	#18x1+#22x2	#14x1+#16x1	UL/CSA
<b>73-963-0</b>	-50	Orange	#20x3	#14x2+#16x1	UL/CSA
<b>73-964-0</b>	-50	Yellow	#18x1+#22x1	#14x2+#16x2	UL/CSA
<b>73-965-0</b>	-50	Red	#18x3	#10x3	UL/CSA

## WIRE TAPS



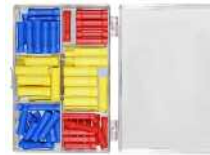
Wire Range	Bulk Number	Pkg.	Color
22-18	<b>73-760-0</b>	-25	Red
18-14	<b>73-770-0</b>	-25	Blue
12-10	<b>73-780-0</b>	-25	Yellow

## TERMINAL ASSORTMENTS



### 73-002-1

180 Piece Terminal Assortment in a sturdy reusable plastic box. Contains all the most popular ring, spade, butt and quick connect terminals.



### 73-006-1

Butt connector assortment. Contains 25 each of 3 wire sizes (22-16 AWG, 16-14 AWG, 12-10 AWG). Sturdy reusable plastic box.



### 73-008-1

Closed end connector assortment. Contains 25 each of 2 wire sizes (22-18 AWG, 22-14 AWG) and 15 of 22-10 AWG wire size. Sturdy reusable plastic box.



### 73-009-1

Wire nut assortment. Contains 24 each Gray, Blue and Orange, 15 each Yellow and Red. Sturdy reusable plastic box.

All wire terminals are available in low cost but attractive re-usable econo-packs. These packages contain smaller quantities of each terminal. Order part number with **EP** at end. For example 73-653EP.

## ECONO-PACKS



## WIRE FERRULES



Bulk #	Pkg	Size	Color
<b>73-510-0</b>	-100	26AWG	Light Blue
<b>73-512-0</b>	-100	24AWG	Pink
<b>73-514-0</b>	-100	22AWG	White
<b>73-516-0</b>	-100	20AWG	Blue
<b>73-518-0</b>	-100	18AWG	Red
<b>73-520-0</b>	-100	16AWG	Black
<b>73-522-0</b>	-100	14AWG	Grey
<b>73-524-0</b>	-100	12AWG	Orange
<b>73-526-0</b>	-100	10AWG	Green

Wire Ferrules are used to provide a reliable wire contact for terminal block connections. They are crimped onto the wires using our 84-194-1 crimp tool.



## WIRE FERRULE ASSORTMENT

Contains 30 each of 6 wire sizes (24AWG-Pink, 22AWG-White, 20AWG-Blue, 18AWG-Red, 16AWG-Black, 14AWG-Grey). Sturdy reusable plastic box.

### 73-005-1

**WIRE CLAMPS**

Typically, the process of connecting two wires requires you to strip the wire's cover, connect the wires, and taping. But with these wire clamps the process has been simplified and easy for anyone to use. These wire clamps are waterproof and dustproof. Also there is absolutely no risk of electric shock when these clamps are used.

Rated Voltage: 600V



SINGLE WIRE CLAMPS  
T-WIRE CLAMPS  
2X2 WIRE CLAMPS



Bulk #	Pkg	Wire Range [AWG / mm <sup>2</sup> ]	Waterproof	Max. Current	Contacts
<b>73-863-0</b>	-5	13-12 / 2.25-3.0	IP 33	20 Amps	6
<b>73-864-0</b>	-5	11-10 / 3.25-5.0		30 Amps	6
<b>73-873-0</b>	-5	13-12 / 2.25-3.0		20 Amps	6
<b>73-874-0</b>	-5	11-10 / 3.25-5.0		30 Amps	6
<b>73-881-0</b>	-5	19-17 / 0.75-1.0		10 Amps	4



**81-020-1**

**POCKET DIGITAL MULTIMETER**

- \*3 1/2 Digits
- \*Diode test
- \*Transistor test
- \*Protective holster
- \*c/w Test leads & battery

D.C. Volts: 200mV, 2, 20, 200, 600V (.5%)  
A.C. Volts: 200, 600V (1.2%)  
D.C. Current: 200µA, 2mA, 20mA, 200mA, 10A (1%)  
Resistance: 200, 2K, 20K, 200K, 2MΩ (.8%)  
Size: 70 x 126 x 24mm

**NETWORK CABLE TESTER**



**81-100-1** Pkg.

RJ11/RJ45 Cable tester. Master and Removable remote (batteries not included)

**RECEPTACLE CIRCUIT TESTER**



**81-110-0** Bulk  
**81-110-1** Pkg.

Test AC receptacles for voltage and correct wiring with this handy tool.



**81-026-1**

**DIGITAL MULTIMETER**

- \*3 1/2 Digits
- \*Data Hold
- \*Audible continuity test
- \*Frequency
- \*Capacitance
- \*Temperature
- \*Transistor test
- \*Diode test
- \*c/w Test leads & battery

D.C. Volts: 200mV, 2, 20, 200, 1000V (.8%)  
A.C. Volts: 200mV, 2, 20, 200, 750V (1.2%)  
D.C. Current: 200µA, 2mA, 20mA, 200mA, 10A (1%)  
A.C. Current: 200µA, 2mA, 20mA, 200mA, 10A (1.5%)  
Resistance: 200, 2K, 20K, 200K, 2M, 20MΩ (1%)  
Capacitance: 2n, 20nF, 200nF, 2µF, 20µF (3%)  
Frequency: 2K, 20K, 200K, 2M, 20MHz (.5%)  
Temperature: 300 C / 572 F (requires thermocouple)  
Size: 74 x 153 x 45mm

**VOLTAGE DETECTOR**



Electronic Voltage Detector with Buzzer.

- \*Tests voltage from 100VAC to 600VAC
- \*Locates breaks along live, insulated wires and power cords
- \*Audible and visual indication
- \*Four-section power/sensitivity switch (H,L,M,off)
- \*Two LR44, 1.5V batteries included
- \*With GS, UL, cUL and RoHS approval

**81-112-0** Bulk  
**81-112-1** Pkg.



**81-040-1**

**DIGITAL THERMOMETER**

- \*3 1/2 Digits
- \*-50 to 750 Degrees C
- \*.75% Accuracy
- \*K' Thermocouple
- \*c/w Battery

Size: 72 x 125.5 x 27mm

**81-041-0**

**K TYPE THERMOCOUPLE**

Replacement thermocouple for 81-040-1

**NEON VOLTAGE TESTER**



A handy pocket voltage tester c/w leads.

- Working voltage range: 90-300V AC/DC
- Frequency: 50/60Hz
- Over voltage category: CAT III 300V
- Working temperature: 5°C to 40°C
- Altitude: up to 2000m
- Recommended use: indoor

**81-114-0** Bulk  
**81-114-1** Pkg.



For over 50 years EDSYN has been manufacturing high quality precision soldering and desoldering tools and associated equipment. Don't compromise on quality and features, always specify EDSYN.

## Desoldering

- |  |   |  |
|--|---|--|
| <br>13" Long  | <b>DS017</b> Bulk<br><b>DS017-P</b> Display Pkg.      | The 'Original' Deluxe desoldering tool. Designed for heavy duty, high volume applications. Retractable shaft guide for easy storage. Use replacement tip <b>SRT12</b> and <b>ODS31</b> 'O' ring. |
| <br>13" Long  | <b>DS017LS</b> Bulk                                   | Low static Deluxe desoldering tool. Designed for heavy duty, high volume applications. Retractable shaft guide for easy storage. Use replacement tip <b>LS197</b> and <b>ODS31</b> 'O' ring.     |
| <br>13" Long  | <b>AS196</b> Bulk                                     | Static Safe Deluxe desoldering tool. Designed for heavy duty, high volume applications. Retractable shaft guide for easy storage. Use replacement tip <b>LS197</b> and <b>ODS31</b> 'O' ring.    |
| <br>8" Long | <b>US140</b> Bulk<br><b>US140-P</b> Display Pkg.      | Single handed desoldering tool. Powerful vacuum in a smaller, easier to handle tool. Use replacement tip <b>SRT12</b> and <b>ODS31</b> 'O' ring.   |
|             | <b>LT-1</b> Lead free tip tinning compound ( .5 oz. ) |  |

**Care and feeding of your desoldering tool:**  
 Make sure the tip is always clear - remove any solder build up. Always lubricate the 'O' rings with **OL111** lubricant. Avoid burning the tip with your soldering iron.



**VACUUM PICK-UP TOOL**

The LP200 is a handy full-size vacuum pick-up tool. 130mm long c/w 3mm, 5mm and 10mm tips.

**LP200**

**Visit our Web Site at**  
<http://www.mode-elec.com>



## 951SX Temperature Controlled Soldering Station

High Reliability and temperature accuracy make the 951SX our most popular soldering station. This unit features accurate linear temperature control, modular assembly for easy maintenance and external calibration. A very wide variety of soldering and SMT tips are available to service any requirement. C/W LT375 Tip, SH230 Sponge Holder, RS199 Sponge and Wigapry solder aid.

### Specifications:

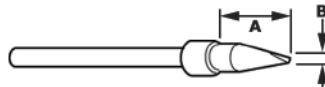
<b>Power Requirements:</b>	<b>120V 60Hz</b>
<b>Power Rating:</b>	<b>15W - 220W</b>
<b>Heater Rating:</b>	<b>120V 95W</b>
<b>Temperature Range:</b>	<b>400°F - 800°F (205 - 427°C)</b>
<b>Temperature Regulation:</b>	<b>+/- 6°F (+/-3°C)</b>
<b>Tip to ground Leakage:</b>	<b>&lt;2mV</b>
<b>Size:</b>	<b>4.1" W x 8.2" H x 10" D</b>

### Maintenance Tips for your Soldering Station:

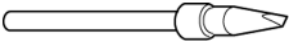


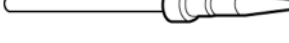
- \* Always use genuine Edsyn soldering tips.
- \* To prevent tip from seizing, remove tip and clean regularly.
- \* Keep tips well tinned for better performance.
- \* Keep temperature as low as possible.
- \* Replace sponge regularly to prevent contamination.

## Loner General Purpose and Lead-Free Soldering Tips

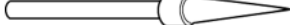
(for 951SX Soldering station)



### Spade Tips

Standard	Lead-Free		A	B
LT375	LT375LF		.48" (12.2mm)	.06" (1.5mm)
LT376	LT376LF		.48" (12.2mm)	.12" (3.0mm)
LT395			.74" (18.8mm)	.09" (2.3mm)
LT444			.78" (19.8mm)	.04" (1.0mm)

### Conical Tips

LT374	LT374LF		.48" (12.2mm)	.03" (0.8mm)
LT382			.62" (15.8mm)	.02" (0.5mm)

Use - P for Display Packaging (Standard Soldering Tips only)

**Mode electronics carries an extensive stock of consumables and replacement parts for Edsyn products - some of these items are listed below:**

- RS199** Cleaning Sponge (for all soldering stations)
- RS372** Retaining Sleeve (for 951SX)
- SR060** Heater Assembly (for 951SX)
- SH230** Cleaning Sponge Assy (for 951SX)
- SRT12** Tip for DS017 & US140 Soldapullt
- LS197** Tip for AS196
- ODS31** 'O' ring for DS017 series & AS196
- OL111** 'O' ring lubricant





**FXF11**

**FXF11 BENCH TOP FUME EXTRACTOR FANS**

Bench top systems provide an inexpensive means of removing a good percentage of soldering fumes from a localized space. These units feature a rotating primary filter and charcoal impregnated stationary filter. These systems do not remove all particulate matter.

**XF01** Filter set (one XF02 & one XF03)

**90 DAY WARRANTY**



**DUAL HEAT SOLDERING IRON STATION**

- Coil spring iron holder for extra safety
- Sponge-pad tip cleaner
- Switchable 20/40 watt iron with ON/OFF switch and light
- Space saving design

**84-090-1** Pkg.

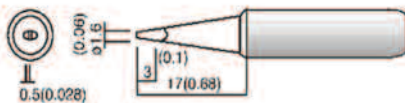
**REPLACEMENT TIP FOR 84-090-1**



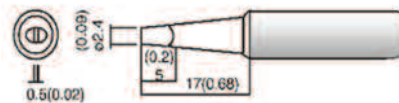
Replacement tip for 84-090-1 soldering iron station.

**84-091-0** Bulk

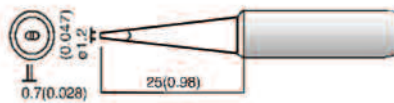
**REPLACEMENT TIPS FOR 84-0921-1 60W DIGITAL SOLDER STATION (84-0921-1 IS NOT AVAILABLE ANY MORE)**



**84-0923-0** Bulk  
**84-0923-1** Pkg.



**84-0924-0** Bulk  
**84-0924-1** Pkg.

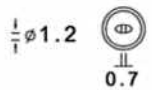


**84-0925-0** Bulk  
**84-0925-1** Pkg.

**REPLACEMENT HEATER FOR 84-0921-1**



**84-0929-0** Bulk  
**84-0929-1** Pkg.



**1.2 MM REPLACEMENT TIP FOR 84-0931-1 90W DIGITAL SOLDER STATION (84-0931-1 IS NOT AVAILABLE ANY MORE)**

**84-0932-0** Bulk

**FUME EXTRACTOR**



**Specs:**

- Max. air vol.: 95/115 CFM
- Input voltage: 120VAC
- Wattage: 20 - 22W
- Dim.: 162 x 200 x 120 mm
- Weight: 1600 grams

**Features:**

- Replaceable activated carbon filter (3 filters included)
- Effectively absorbs noxious flux and fumes
- Built in high efficiency, low noise, brushless mini fan

**84-0981-1** Pkg.

**REPLACEMENT ACTIVATED CARBON FILTER FOR 84-0981-1**



**Specs:**

- Dim.: 130 x 130 x 10 mm
- Weight: 12 grams

**Features:**

- Made by joining specific foam with refined activated carbon)
- The dust collection efficiency of the filter is 30% while the carbon filter can absorb up to 30% of its carbon weight in noxious components
- Set of 3 filters

**84-0982-0** Bulk

**BUTANE SOLDERING IRON KIT**



- Butane Soldering Iron with ignitor & flow control
- Comes with a deflector suitable for heat shrink tubing, a flat blade type tip, a regular solder tip and a length of lead free solder
- Uses a platinum catalyst
- Protective plastic case
- (Butane not included)

**84-097-1** Pkg.

**REPLACEMENT TIP FOR 84-097-1**



Replacement tip for 84-097-1 butane soldering iron.

**84-097T-0** Bulk

**SOLDERING IRON**



30 watt cULus approved soldering iron with a 2 wire AC cord. Stainless steel barrel and nickel plated replaceable tips. Black heat resistant high impact handle.

**84-101A-1** Pkg.

**REPLACEMENT TIP FOR 84-101A-0**



**84-102A-0** Bulk

**DESOLDERING TOOL**



Suction type desoldering tool has aluminum barrel, enclosed plunger, teflon tip and is self cleaning.

**84-110-1** Pkg.

**PRECISION DESOLDERING PUMP**



High Vacuum, heavy duty desoldering pump has fully enclosed shaft (for safety) and teflon tip.

**84-112-1** Pkg.

**REPLACEMENT TIP FOR 84-101-0**



4 mm replacement tip for 84-101-0 soldering iron.

**84-102-0** Bulk

**SOLDERING IRON STAND**



Soldering iron stand for 84-101-0 soldering iron

**84-103-1** Bulk

**TIP CLEANER AND STAND**



Made of low abrasive brass shavings with no water required. No temperature drop as with conventional sponges. Aluminum holder and rubber foot pad.

**84-105-0** Bulk

**84-105-1** Pkg.

**REPLACEMENT BRASS SHAVINGS**



Replacement brass shavings for 84-105-0 tip cleaner

**84-106-0** Bulk

**84-106-1** Pkg.

**REPLACEMENT TIP FOR 84-110-1**



**84-111-0** Bulk

**REPLACEMENT TIP FOR 84-112-1**



**84-113-0** Bulk

**ANTI-STATIC DESOLDERING PUMP**



This desoldering pump is anti-static and has precision metal plunger.

**84-114-1** Pkg.

**REPLACEMENT TIP FOR 84-114-1**



**84-115-0** Bulk

**ANTI-STATIC DESOLDERING PUMP**



Features:

- High Vacuum, heavy-duty precision desoldering pump
- Static safe
- Fully enclosed shaft for safety
- Teflon tip

**84-116-1** Pkg.

**REPLACEMENT TIP FOR 84-116-1**



**84-117-0** Bulk



**TWEEZERS**

Stainless steel, non-magnetic fine tip - 130mm [5 1/8"] Long.  
**84-125-0** Bulk      **84-125-1** Display Pkg.



Stainless steel, non-magnetic fine tip - 115mm [4 1/2"] Long  
**84-127-0** Bulk      **84-127-1** Display Pkg.



Stainless steel, non-magnetic fine tip - 115mm [4 1/2"] Long  
**84-128-0** Bulk      **84-128-1** Display Pkg.



Stainless steel, non-magnetic fine tip - 115mm [4 1/2"] Long  
**84-129-0** Bulk      **84-129-1** Display Pkg.



Stainless steel, non-magnetic tip - 120mm [4 3/4"] Long  
**84-130-0** Bulk      **84-130-1** Display Pkg.



Stainless steel, non-magnetic fine tip - Smooth inside points.  
 125mm [4 7/8"] Long. Made in Japan  
**84-131-0** Bulk      **84-131-1** Display Pkg.



Stainless steel, non-magnetic tip - 115mm [4 1/2"] Long  
**84-132-0** Bulk      **84-132-1** Display Pkg.



Stainless steel, non-magnetic fine tip - 120mm [4 3/4"] Long  
**84-134-0** Bulk      **84-134-1** Display Pkg.



Stainless steel, non-magnetic serrated tip - 120mm [4 3/4"] Long  
**84-134B-0** Bulk **84-134B-1** Display Pkg.



Stainless steel, non-magnetic fine tip - 130mm [5 1/8"] Long.  
**84-137-0** Bulk **84-137-1** Display Pkg.



Stainless steel, non-magnetic fine tip - 120mm [4 3/4"] Long  
**84-142-0** Bulk **84-142-1** Display Pkg.



Stainless steel, non-magnetic fine tip - 115mm [4 1/2"] Long  
**84-143-0** Bulk **84-143-1** Display Pkg.



Stainless steel, non-magnetic fine tip - 108mm [4 1/4"] Long  
**84-144-0** Bulk **84-144-1** Display Pkg.



**TWEEZER SETS**

Two piece tweezers set - 1 straight and 1 curved serrated tip stainless steel tweezers.  
**84-124-0** Bulk **84-124-1** Display Pkg.



Four piece tweezers set - 1 straight, 1 angled, 1 wafer and 1 self-locking. Stainless Steel.  
**84-389-0** Bulk **84-389-1** Display Pkg.



**SEIZERS**



125mm stainless steel curved tip clamping forceps.

**84-145-0** Bulk  
**84-145-1** Pkg.



160mm stainless steel curved tip clamping forceps with serrated jaws and insulated handles.

**84-147-0** Bulk  
**84-147-1** Pkg.



160mm stainless steel straight tip clamping forceps with serrated jaws and insulated handles.

**84-148-0** Bulk  
**84-148-1** Pkg.



## CLASSIC MAGNIFYING GLASSES



Lens dia.: 50 mm  
Magnification: 4.5X  
Lens: Glass

**84-149-0** Bulk

**84-149-1** Pkg.



Lens dia.: 90 mm  
Magnification: 2.25X  
Lens: Glass

**84-1491-0** Bulk

**84-1491-1** Pkg.

## EYE LOUPE



Lens dia.: 20 mm  
Magnification: 7.5X  
Lens: Glass

**84-1498-0** Bulk

**84-1498-1** Pkg.

## POCKET MAGNIFIER



Lens dia.: 40 mm  
Magnification: 5X  
Lens: Glass

**84-1500-0** Bulk

**84-1500-1** Pkg.

## OPTIVISOR

- 5 Lens magnification can be combined to increase magnification up to 8.3x
- Fixed lens magnification: 1.9x
- Flip lens magnification: 1.9x
- Loupe lens magnification: 4.5x



**84-1511-1**  
Pkg.



- 2 Bright white LED lights
- Angle of light can be adjusted vertically & horizontally
- Requires two AAA batteries (not included)
- Adjustable head strap with turn dial on the back
- Can be used as a headlamp

## MAGNIFIER LAMP, LED, 5"



### REPLACEMENT LED PANEL

**84-1552-0** Bulk

- Lens size: 5"
- Diopter: 5D
- Light: 81LEDs, 8W
- Voltage: DC12V with Adapter
- Capacitive touch switch with dimmer
- Life of the LED: 25000h
- Complete with bench clamp

**84-1550-1-LED** Pkg.



## CRIMP TOOLS

### DELUXE MODULAR CRIMP TOOL



Deluxe crimp tool cuts, strips and crimps modular plugs.

**12-306-1** 6P/4C & 6C

**12-308-1** 8P/8C

### DELUXE MODULAR CRIMP TOOL



**12-309-1** Pkg.

- 8P/8C (RJ45) precision crimper.
- Cuts and strips both flat and round modular cable.
- Extremely comfortable cushioned handles.
- Ratchet action with easy release.

### MODULAR CRIMP TOOL



**12-310A-1** Pkg.

This versatile tool will crimp 4, 6 and 8 pin modular plugs. It also has a wire cutter and stripper built-in. Simple to use, extremely durable.

### TERMINAL CRIMP TOOL



Multi-purpose tool for stripping and crimping wire terminals. Features cushion grip handles, bolt and wire cutter.

**84-150-1** Pkg.

**PREMIUM CRIMP/STRIP TOOL**



Very high quality multi-purpose stripper (20 - 10 AWG), insulated and non-insulated crimper (22 - 10 AWG), bolt cutter (4 - 40, 6 - 32, 8 - 32, 10 - 32, 10 - 24) and wire cutter. Comfortable cushion grips.

**84-151-1** Pkg.

**8-IN-1 WIRE STRIPPER/CUTTER/CRIMPER**



Very high quality multi-purpose stripper (20 - 10 AWG), insulated and non-insulated crimper (22 - 12 AWG), bolt cutter (4 - 40, 5 - 40, 6 - 32, 8 - 32, 10 - 32, 10 - 24) and wire cutter. Comfortable cushion grips.

**84-152-1** Pkg.

**COMPRESSION CRIMP TOOL**



- For crimping F/BNC/RCA Rg-58/59/62/6(3C/4C/5C) type compression
- Suitable for: 21-009, 21-010, 21-355, 21-356, 24-105 and 24-106 connectors
- Compressed dist. for F connector: 15.8~25.8mm
- Compressed dist. for BNC connector: 28.2~38.2mm
- Compressed dist. for RCA connector: 28.2~38.2mm
- Size: 9.1" (231mm)

**84-156-1** Pkg.

**ECONOMY WATERPROOF 'F' TOOL**



This inexpensive tool is designed for waterproof F connectors. It also works on Augat/T&B Snap-N-Seal™ Connectors, Paladin SealTite™ Connectors, and AIM CATV F waterproof connectors

**84-157-1** Pkg.

**WATERPROOF 'F' CONNECTOR TOOL**



- Works on F type RG-59(4C) & RG-6(5C) compression connectors
- This tool is designed for the 21-009 and 21-010 F connectors. It also works on Augat/T&B Snap-N-Seal™ Connectors, Paladin SealTite™ Connectors, and AIM CATV F waterproof connectors
- Compressed distance: 20.30±0.15mm
- Size: 8.5" (216mm)

**84-158-1** Pkg.

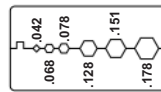
**HEAVY DUTY CRIMP TOOL**



This tool is suitable for all hexagonal crimp F59 connectors including integral ring types. Hex crimp size for RG59 (.255") and RG6 (.322"). Comfortable cushion grip handles.

**84-159-1** Pkg.

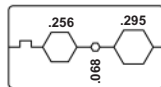
**PRECISION HEX CRIMP TOOL**



Precision hex coax connector crimp tool suitable for many coax connector applications. Hex die sizes .042", .068", .078", .128", .151" and .178". Suitable for RG174/u, RG179/u, Belden 8218 and Fiber Optic.

**84-170-1** Pkg.

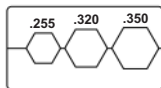
**PRECISION HEX CRIMP TOOL**



Precision action hex crimp tool. Hex die sizes .068", .256" and .295". Suitable for RG59 and RG6.

**84-171-1** Pkg.

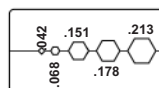
**PRECISION HEX 'F' CRIMP TOOL**



Precision action hex crimp tool for 'F' connectors. Hex die sizes .255", .320" and .350". Suitable for RG59 and RG6.

**84-172-1** Pkg.

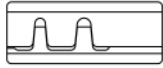
**PRECISION HEX CRIMP TOOL**



Precision action hex crimp tool for fiber optic, SMA and SMB connectors. Hex die sizes .042", .068", .151", .178" and .213". Suitable for RG58, RG174, Belden 8281 and Fiber Optic.

**84-173-1** Pkg.

**PRECISION D-SUB CRIMP TOOL**



Precision action D-sub connector crimp tool. Suitable for AWG 14-22 wires. It can also be used for the 37-930-0, 37-940-0 and 37-970-0 wire contacts.

**84-174-1** Pkg.

**TERMINAL CRIMP TOOL**



For insulated wire terminals. This crimp tool features ratchet action for positive crimping. It is suitable for insulated wire terminals for wire sizes 10-22AWG. Flat type crimp.

**84-195-1** Pkg.

**RF CONNECTOR CRIMP TOOL**



Precision crimp tool for RF connectors. This tool features ratchet tension for reliable crimps. It has 5 hexagon crimp dies for most RF crimp rings and centre pins. Sizes of dies are shown below with the appropriate cable.

Size	Cable size
.068"	centre conductor
.100"	centre conductor
.213"	RG55,58,141,142,223,303,400
.255"	RG59,62,140,210,Belden 8279
.324"	RG5,6,21,143,212,222,304 and Belden 8281,9231,9141

**84-180-1** Pkg.

**TERMINAL CRIMP TOOL**



For insulated wire terminals. This crimp tool features ratchet action for positive crimping. It is suitable for insulated wire terminals for wire sizes 10-22AWG. Stepped type crimp.

**84-198-1** Pkg.

**TERMINAL CRIMP TOOL**



This crimp tool features ratchet action for positive crimping. It is suitable for most uninsulated wire terminals for wire sizes 14-20AWG. It can also be used for the 37-930-0 and 37-940-0 .093" terminals.

**84-199-1** Pkg.

**RF CRIMP TOOL**



Precision crimp tool for RF connectors. This tool has 3 precision hexagon crimp dies suitable for RG58, RG59 and RG62 crimp rings and centre pins.

Size	Cable size
.068"	centre conductor
.213"	RG55,58,141,142,223,303,400
.256"	RG59,62,140,210,Belden 8279

**84-181-1** Pkg.

**D-SUB CRIMP TOOL**



This D-sub crimp tool features ratchet action for positive crimping and has separate cavities for 24-30 and 18-22 AWG wire sizes. Suitable for most D-sub contacts as well as 37-900-0 and 37-910-0 .062" contacts.

**84-200-1** Pkg.

**FERRULE CRIMPING TOOL**



Wire Ferrules are used to crimp on wire ends that are inserted into any type of terminal block. They provide a durable and reliable connection point.

Wire Sizes: 28 - 10 AWG ( 0.08 - 6 mm<sup>2</sup> )

**84-194-1** Pkg.

**D-SUB CRIMP TOOL**



Economy D-sub crimp tool suitable for 28-20 AWG wire sizes.

**84-201-1** Pkg.





The crimp dies can be inserted into the crimp handle easily without any tools - the advantage of this concept is that you only require one crimp handle and any number of crimp dies that can be changed quickly and easily in the field. There is also a sturdy carrying case for the crimp handle and up to five die sets.

**QUICK CHANGE RATCHET CRIMPER**



**84-0060-0** Bulk (Use -1 for Disp. Pkg.)



**COAX HEX CRIMP DIE**



RG 174, 179, Belden  
8218 Fiber Optic  
.042"/.068"/.078"/  
.128"/.151"/.178

**84-0061-0** Bulk (Use -1 for Disp. Pkg.)



**D-SUB OR OPEN BARREL TERMINAL CRIMP DIE**



14/22

**84-0062-0** Bulk (Use -1 for Disp. Pkg.)



**COAX HEX CRIMP DIE**



RG 58, 59, 62, 6  
.255"/.213"/.100"/  
.068"/.324"

**84-0063-0** Bulk (Use -1 for Disp. Pkg.)



**COAX HEX CRIMP DIE**



RG 58, 59, 62, 174  
.255"/.187"/.068"/  
.213"

**84-0064-0** Bulk (Use -1 for Disp. Pkg.)



**WIRE FERRULE CRIMP DIE**



AWG 22/20/18/16/14/12  
White, Blue, Red, Black,  
Grey, Orange

**84-0065-0** Bulk (Use -1 for Disp. Pkg.)



**INS. TERM. CRIMP DIE**



AWG 22-18/16-14/  
12-10

Red, Blue, Yellow

**84-0066-0** Bulk (Use -1 for Disp. Pkg.)



**UNINSULATED TERM. CRIMP DIE**



AWG 22-18/16-14/  
12-10/8

**84-0067-0** Bulk (Use -1 for Disp. Pkg.)



**BLOW MOLDED CRIMP TOOL CASE**

Quick Change Ratchet Crimper and Dies not included.

**84-0070-0** Bulk



Contains 84-0061-0 Quick Change Coaxial connector crimp die + 84-0060-0 Quick Change Handle

**84-0071-1** Display Pkg.



Contains 84-0063-0 Quick Change Coaxial connector crimp die + 84-0060-0 Quick Change Handle

**84-0072-1** Display Pkg.



Contains 84-0064-0 Quick Change Coaxial connector crimp die + 84-0060-0 Quick Change Handle

**84-0073-1** Display Pkg.



Contains 84-0062-0 Quick Change D-Sub open terminal Crimp Die + 84-0060-0 Quick Change Handle

**84-0074-1** Display Pkg.



Contains 84-0066-0 Quick Change Insulated Terminal crimp die + 84-0060-0 Quick Change Handle

**84-0075-1** Display Pkg.



Contains 84-0067-0 Quick Change Uninsulated Terminal crimp die + 84-0060-0 Quick Change Handle

**84-0076-1** Display Pkg.



Contains 84-0065-0 Quick Change Wire Ferrule crimp die + 84-0060-0 Quick Change Handle

**84-0077-1** Display Pkg.



**COAXIAL CRIMP KIT**

84-0060-0 Quick change handle + 84-0063-0 + 84-0064-0 quick change dies in the 84-0070-0 case

**84-0078-1** Pkg.



**WIRE TERMINAL KIT**

84-0060-0 Quick change handle + 84-0066-0 + 84-0067-0 quick change dies in the 84-0070-0 case

**84-0079-1** Pkg.



**CATEGORY 5 TOOLING**



**13-180-0** Bulk      **13-180-1** Pkg.  
Adjustable impact punch tool - using one of the inserts below this tool will insert and trim wires for the 13-112-0 & 13-113-0 keystone jacks.

**13-186-1** Pkg.  
Adjustable impact punch tool c/w 13-183-0 insert.  
Attractive display Package.



**13-181-0** Bulk      **13-181-1** Pkg.  
Non-impact punch tool - using one of the inserts below this tool will insert and trim wires for the 13-112-0 & 13-113-0 keystone jack.

**13-187-1** Pkg.  
Non-impact punch tool c/w 13-183-0 insert.  
Attractive display package.

**Inserts for 13-180-0 and 13-181-0 punch tools.**



**13-182-0**  
For 66 type terminals- reversible punch or punch & cut



**13-183-0**  
For 110 type terminals- reversible punch or punch & cut

Use -1 for Display Package



**13-185-0**  
Universal stripping tool for round or flat Cat 5 cable.  
Use -1 for Display Package



**13-189-0**  
Disposable punch-down tool. Suitable for 5-6mm OD UTP/STP cable.  
Use -1 for Display Package

**CABLE TIE TOOL**



**34-900-0** Bulk      **34-900-1** Pkg.  
Handy cable tie tensioner and cut-off tool. Made of very durable polymer material.

**STRAIN RELIEF INSTALLATION TOOL**



**34-901-1** Installation Tool      Disp. Pkg.

**EXTRACTION TOOLS**



**37-950-1** Pkg.  
Extraction tool for .093" terminals. (37-930-0, 940)

**37-951-1** Pkg.  
Extraction tool for .062" terminals. (37-900-0, 910)

**D-SUB INSERTION/EXTRACTION TOOLS**



**84-202-0** Bulk      **84-203-0** Bulk  
**84-202-1** Pkg.      **84-203-1** Pkg.  
Handy tools for inserting and extracting D-sub crimped pins.



**721** Bulk  
**721-P** Display Package

Precision wire stripper. Serrated tip & Lock. Strips wire sizes 20-10AWG. Soft plastic coated handles. (Length 159mm)

Miller wire strippers are recognized as the best quality in the Industry. Don't settle for anything less.

**COAXIAL CABLE STRIPPER****For  
RG58 & 59**

This easy to use cable stripper is suitable for RG58 and RG59 coaxial cable. Two separate cutting knives can be individually adjusted for depth.

**84-182-1** Pkg.**COAXIAL CABLE STRIPPER****For  
RG6 & 59**

This easy to use cable stripper is suitable for RG6 and RG59 coaxial cable. Two separate cutting knives can be individually adjusted for depth.

**84-183-1** Pkg.**COAXIAL CABLE STRIPPER**

3 blades rotary coaxial stripper for RG6, RG58 and RG59 cables. This stripper has been designed for stripping the above cables without any adjustments. Stripping length is preset to 12 mm. For stripping other lengths the blades can be adjusted.

**84-184-1** Pkg.**AUTOMATIC WIRE STRIPPER**

Die-cast single action wire stripper - strips 8-22 AWG solid or stranded wire. Insulated handles.

**84-396-0** Bulk**84-396-1** Pkg.**PRECISION WIRE STRIPPERS**

Precision ground and polished strippers-Cushion grip handles.

**84-397-0** Bulk**84-397-1** Pkg.

Strips 10-22 AWG (Solid), 12-24 AWG (Stranded)

**84-398-0** Bulk**84-398-1** Pkg.

Strips 14-24 AWG (Solid), 16-26 AWG (Stranded)

**84-399-0** Bulk**84-399-1** Pkg.

Strips 20-30 AWG (Solid), 22-30 AWG (Stranded)

**ADJUSTABLE WIRE STRIPPER**

Screw type adjustable wire stripper with spring.

**84-402-0** Bulk**84-402-1** Pkg.**SELF-ADJUSTING WIRE CUTTER/STRIPPER**

Back by popular demand, this Italian designed stripper is one of the best we've ever used. Very easy to use and the patented stripper design will not damage the wires.

Suitable range: Single or multiple cables from 0.6mm<sup>2</sup> to 5.0mm<sup>2</sup>

**84-405-1** Pkg.

**MODE ELECTRONICS LTD.**  
**211 - 2999 UNDERHILL AVE.,**  
**BURNABY, B.C., CANADA, V5A 3C2**  
**Phone: 604-435-6633**  
**Fax: 604-435-8890**  
**Toll Free: 1-800-663-4992**  
**Web Site: www.mode-elec.com**

**STAINLESS STEEL CUTTERS**

These stainless steel cutters are the best value around. They are some of the finest quality cutters we have seen. They are premium tools but not at premium prices.

**FLUSH CUT CUTTERS (3 1/2")**



3 1/2" stainless steel cutters with spring and cushion grip handles. Precision ground cutting surfaces.

**84-406-0** Bulk

**84-406-1** Pkg.

**BEVEL CUT CUTTERS (4 1/2")**



4 1/2" stainless steel cutters with spring and cushion grip handles. Precision ground cutting surfaces.

**84-408-0** Bulk

**84-408-1** Pkg.

**ERGONOMIC CUTTERS (5 1/2")**



5 1/2" stainless steel cutter. Comfortable cushion grips. Great value.

**84-409-0** Bulk

**84-409-1** Pkg.

**FINE TIP CUTTERS (4 3/4")**



4 3/4" stainless steel cutters with very fine cutting tip (flush cut). Spring and cushion grip ESD handles.

**84-4081-0** Bulk

**84-4081-1** Pkg.

**CARBON STEEL CUTTERS**

**CARBON STEEL CUTTERS (4 1/4")**



4 1/4" hardened carbon tool steel cutters with spring and cushion grip handles.

**84-410-0** Bulk

**84-410-1** Pkg.

**MICRO FLUSH CUTTERS (5")**



5" steel cutters with spring and cushion grip handles. Flush cut.

**84-4110-0** Bulk

**84-4110-1** Pkg.

**STAINLESS STEEL PLIERS**

These stainless steel pliers are the best value around. They are some of the finest quality pliers we have seen. These are premium tools but not at premium prices.

**NEEDLE NOSE PLIERS (4")**



4" stainless steel needle nose pliers with spring and cushion grip handles. Precision ground serrated gripping surfaces.

**84-416-0** Bulk

**84-416-1** Pkg.

**STAINLESS STEEL PLIERS (5")**



5" stainless steel needle nose pliers with spring and cushion grip handles. Precision ground serrated gripping surfaces. One year warranty.

**84-418-0** Bulk

**84-418-1** Pkg.

## CARBON STEEL PLIERS

These carbon steel pliers are a great value. They are excellent quality and will give many years of reliable service.

### CARBON STEEL PLIERS (5 1/4")



5 1/4" hardened carbon tool steel needle nose pliers with serrated jaws, spring, cushion grip handles and small gauge wire cutter.

**84-420-0** Bulk

**84-420-1** Pkg.

Although our selection of pliers and cutters is quite extensive we have many more styles available. If we don't have the style you're looking for please contact us and we would be pleased to try and find it for you. Minimum quantities may apply.

## SCREWDRIVERS

### POCKET SCREWDRIVER (SLOT)



160 mm Pocket screwdriver c/w clip - 3 mm slot head.

**85-040-0** Bulk

**85-040-1** Pkg.

### 6 PIECE PRECISION SCREWDRIVER SET



6 Piece precision screwdriver set with 2 Phillips and 4 Slot heads. Nickel plated knurled metal bodies for easy gripping. Swivel heads and steel tempered blades. Complete with a plastic case.

Phillips tips: #0 & #1

Slot tips: 1.4mm, 2.0mm, 2.4mm & 3.0mm

**85-511-0** Bulk

**85-511-1** Pkg.



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**Web Site: www.mode-elec.com**

***Visit our Web Site at***  
***<http://www.mode-elec.com>***

**SLOT**



1 5/16" x 1/4" Slot Power & Screwdriver

**85-202-0** Bulk  
#1-2 Slot

**85-203-0** Bulk  
#2-3 Slot

**85-205-0** Bulk #3-4 Slot      **85-205-0** Pkg.

**SECURITY TEE-STAR**



1 15/16" x 1/4" Security Tee-Star Power & Screwdriver

**85-207-0** Bulk T7 Security      **85-207-1** Pkg.

**85-209-0** Bulk T9 Security      **85-209-1** Pkg.

**85-215-0** Bulk T15 Security      **85-215-1** Pkg.

**85-220-0** Bulk T20 Security      **85-220-1** Pkg.

**85-225-0** Bulk T25 Security      **85-225-1** Pkg.

**85-227-0** Bulk  
T27 Security

**STANDARD TEE-STAR**



1 15/16" x 1/4" Standard Tee-Star Power & Screwdriver

**85-233-0** Bulk T3 Power Tip      **85-233-1** Pkg.

**85-237-0** Bulk T7 Power Tip      **85-237-1** Pkg.

**85-238-0** Bulk T8 Power Tip      **85-238-1** Pkg.

**SECURITY HEX KEY**



1 15/16" x 1/4" Security Hex-Key Power & Screwdriver

**85-242-0** Bulk  
7/64" Security

**SECURITY SPANNER**



1 15/16" x 1/4" Security Spanner Power & Screwdriver

**85-254-0** Bulk  
#4 Spanner

**85-256-0** Bulk  
#6 Spanner

**PHILLIPS**



1 15/16" x 1/4" Phillips Power & Screwdriver

**85-272-0** Bulk  
#2 Phillips

**PHILLIPS POZI-DRIVE**



1 15/16" x 1/4" Phillips Pozi-Driver Power & Screwdriver

**85-283-0** Bulk  
#3 Pozi-Drive

**85-284-0** Bulk  
#4 Pozi-Drive

**ROBERTSON SQUARE**



1 15/16" x 1/4" Robertson Square Power & Screwdriver

**85-291-0** Bulk  
#1 Square

**85-293-0** Bulk  
#3 Square

**FLEXIBLE EXTENSION SHAFT**



7 1/2" x 1/4" Flexible extension shaft.

**85-500-0** Bulk

**Visit our Web Site at**  
**<http://www.mode-elec.com>**

**BURNISHING TOOLS & FILES**

**BURNISHING BRUSH**



Burnishing brush with metal nose cap and adjustable steel or fiber glass fill.  
Length: 120 mm      Diameter: 11 mm

**86-445-0** Bulk    Steel      **86-445-1** Pkg.

**86-450-0** Bulk    Fiber glass    **86-450-1** Pkg.

**RE-FILL FOR 86-450-0  
&  
86-452-0 TOOLS**



Package of 12 fiber glass re-fills for 86-450 & 86-452 tools.

**86-456-12** Pkg.

**RE-FILL FOR 86-445-0 & 86-452-0 TOOLS**



Package of 12 steel re-fills for 86-445 & 86-452 tools.

**86-446-12** Pkg.

**SLIM LINE BURNISHING BRUSH**



Slim line burnishing brush with metal nose cap and adjustable fiber glass fill.  
Length: 135 mm      Diameter: 8 mm

**86-462-0** Bulk

**86-462-1** Pkg.

**FIBER GLASS BURNISHING BRUSH**



Burnishing brush with plastic nose cap and adjustable fiber glass fill.  
Length: 120 mm      Diameter: 11 mm

**86-452-0** Bulk

**86-452-1** Pkg.

**FIBER GLASS RE-FILLS**



Package of 12 fiber glass re-fills for 86-462 tool.

**86-463-0** Bulk

**86-463-12** Pkg.

**CUTTING TOOLS**

**REPLACEMENT BLADE FOR 86-510-0 PLASTIC UTILITY KNIFE  
(86-510-0 IS NOT AVAILABLE ANY MORE)**



12 blades per plastic tube. Length: 110 mm

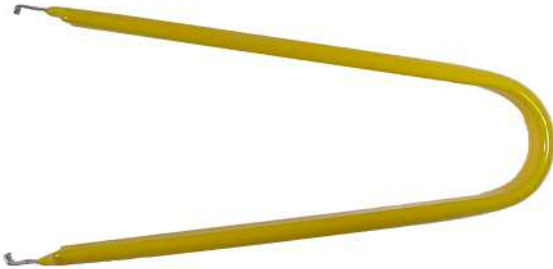
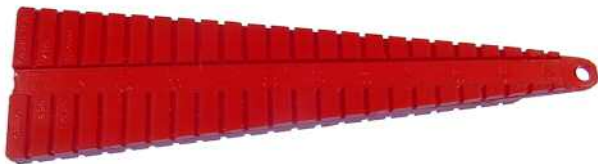
**86-511-0** Bulk

**REPLACEMENT BLADE FOR 86-515-0 PLASTIC UTILITY KNIFE  
(86-515-0 IS NOT AVAILABLE ANY MORE)**



12 blades per plastic tube. Length: 85 mm

**86-516-0** Bulk

**ALUMINUM HANDLE UTILITY KNIFE**Length: 120 mm  
Dia: 11 mm**86-535-0** Bulk**86-535-1** Pkg.**ELECTRICIAN'S SCISSORS**Extra strength stainless steel and insulated handles  
c/w notch in blade and file on the back edge of the  
blade. Length: 125 mm / 5".**86-555-0** Bulk**86-555-1** Pkg.**IC HANDLING & LEAD FORMING TOOLS****INSULATED IC PULLER**Insulated IC puller - for placing and removing  
integrated circuit devices. Length: 102 mm**86-609-0** Bulk**86-609-1** Pkg.**PLCC EXTRACTOR**PLCC Extractor - for safe removal of PLCC type  
components. Length: 100 mm**86-610-0** Bulk**86-610-1** Pkg.**COMPONENT LEAD BENDERS (PD SERIES)**PD Series - manufactured from cycolac plastic.  
Length: 137 mm**86-615-0** Bulk**86-615-1** Pkg.

1/4 &amp; 1/2 Watt size for resistors and diodes

**86-616-0** Bulk**86-616-1** Pkg.

1 &amp; 2 Watt size for resistors and diodes

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**8pcs iPhone TOOL KIT**

Set includes: Mini Philips, Mini Suction Cap, Mini Flathead, 2 Non-Conductive Pry Tools, Pentalobe, 2 Non-Conductive Snap Openers

Great for iPhone repairs, etc...

**86-210-1** Pkg.

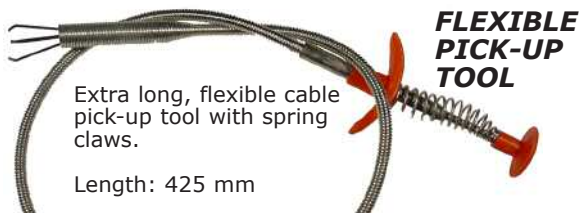
**ALL METAL PICK-UP TOOL**



The spring claws make it easy to retrieve any small parts from hard to reach areas. Length: 120 mm

**86-650-0** Bulk

**86-650-1** Pkg.



**FLEXIBLE PICK-UP TOOL**

Extra long, flexible cable pick-up tool with spring claws.

Length: 425 mm

**86-651-0** Bulk

**86-651-1** Pkg.

**TELESCOPIC MAGNETIC PICK-UP TOOL**



Telescopic magnetic pick-up tool with pocket clip. Extends to 24 inches.

**86-652-0** Bulk

**86-652-1** Pkg.

**MACHINIST'S SCRIBER**



Length: 190 mm / 7 1/2"

**86-663-0** Bulk

**86-663-1** Pkg.

**4 PIECE TEST PROBE KIT**



Individual tools are one piece, stainless steel, and have flexible tips. They are ideal for checking solder joints and doing mechanical inspections. Ultra sharp. Length: 120 mm

**86-660-0** Bulk

**86-660-1** Pkg.

**SPRING HOOK**



Finely polished spring hook with easy grip handle. For inserting adjusting or removing springs. Hook - one end / Lifter - other end. Length: 120 mm / 8"

**86-661-0** Bulk

**86-661-1** Pkg.

**FLAT SHOCKPROOF VULCAN SPUDGER**



Double beveled and conical ends. Static free, ultra strong and long lasting. Size: 1/4" X 6"

**SH80** Bulk

**ROUND SHOCKPROOF VULCAN SPUDGER**



Screwdriver and conical ends. Static free, ultra strong and long lasting. Size: 1/16" X 5 1/2"

**SH81** Bulk

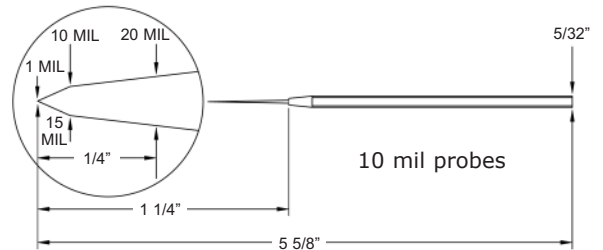
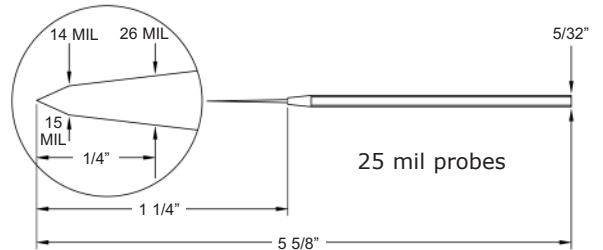


**ORANGE STICKS**

Double beveled and ends, manufactured from non-resin woods which will not contaminate solder or component leads. ESD safe. Size: 5/32" X 7"

Package of 100  
**SH83** Bulk

**PROBES**



10 and 25 mil angled long life probes

**SH116** Bulk 25 mil

**SH216** Bulk 10 mil



10 and 25 mil straight long life probes

**SH141** Bulk 25 mil

**SH241** Bulk 10 mil

Hex handles and spring wire tips are made of stainless steel. Solder will not stick and tips are surgically sharp. Available in 10 mil or 25 mil pitch sizes.

**ALUMINUM FRAME  
TOOL CASE**

Includes key locks, 1 tool pallet,  
moveable dividers and shoulder  
strap.

Dimensions: 18" x 13.5" x 6"

**87-0210-0****4.5" DEEP ATTACHE  
TOOL CASE****C.H. Ellis**

Black hi-impact polyethylene attaché-style tool  
case with milled aluminum tongue-in-groove  
frame. Case features molded-in feet, plastic  
carry handle, 2 mechanical lidstays, full piano  
hinge and 2 keyed locks. Includes 34-pocket  
"A" style top tool pallet.

Dimensions: 17.5" x 12.5" x 4.5"

**95-8569****6" DEEP ATTACHE  
TOOL CASE****C.H. Ellis**

Black hi-impact polyethylene attaché-style tool  
case with milled aluminum tongue-in-groove  
frame. Case features molded-in feet, plastic  
carry handle, 2 mechanical lidstays, full piano  
hinge and 2 keyed locks. This case features the  
"A" style top & bottom tool pallets to hold 50  
tools (not included)

Dimensions: 17.5" x 12.5" x 6"

**95-8570****7.5" DEEP ATTACHE  
TOOL CASE****C.H. Ellis**

Black hi-impact polyethylene attaché-style tool  
case with milled aluminum tongue-in-groove  
frame. Case features molded-in feet, plastic  
carry handle, 2 mechanical lidstays, full piano  
hinge and 2 keyed locks. This case features the  
"A" style top & bottom tool pallets to hold 50  
tools (not included)

Dimensions: 17.5" x 12.5" x 7.5"

**95-8571**

## ADJUSTABLE 3" TABLE VISE



- Jaw width: 3"
- Jaw opening: 2"
- 360° Horizontal adjustment
- 90° Vertical adjustment
- Table clamp-on
- Aluminum body

**87-107-1** Pkg.

## PC BOARD HOLDER



A "Third Hand" PC Board holder c/w alligator clips mounted on adjustable arms. Ideal for holding PC Boards and components in place leaving both hands free for soldering.

**84-122-1** Pkg.

## PC BOARD HOLDER



Same as the 84-122-1 except the 84-123-1 comes with a mounted 2X magnifying glass.

**84-123-1** Pkg.

***Don't forget to check the new products section of our web site frequently to check out the new products that we have added.***

***There is also a technical section with lots of useful information on basic electronics, LED facts and figures. soldering tips and much more.***

***Can't find what you need? Ask your distributor to contact us and we'll try to find it for you. Don't forget the quantities must be reasonable.***



**POLYETHYLENE BOTTLES**

The FD series are manufactured from very durable polyethylene and are ideal as a squeeze type flux dispenser. The bottles come complete with a #22 stainless steel hypodermic needle. They are available in one, two, four and eight ounce and come in opaque round configuration.

Fluid content: 1 ounce    Applicator: Needle  
**87-210-0** Bulk            **87-210-1** Pkg.

Fluid content: 2 ounce    Applicator: Needle  
**87-212-0** Bulk            **87-212-1** Pkg.

Fluid content: 4 ounce    Applicator: Needle  
**87-214-0** Bulk            **87-214-1** Pkg.

Fluid content: 8 ounce    Applicator: Needle  
**87-218-0** Bulk            **87-218-1** Pkg.



**STANDARD DISPENSERS**

High density polyethylene bottles, with one touch stainless steel pump.

Fluid content: 4 ounce  
**87-300-0** Bulk

Fluid content: 6 ounce  
**87-301-0** Bulk

Fluid content: 8 ounce  
**87-302-0** Bulk



**GLASS & METAL DISPENSERS**

The one touch stainless steel pumps are available in a 4 ounce amber glass bottle and a durable 4 ounce steel can. Both dispensers are ideal for solvents which are not compatible with HDPE plastic bottles.

Type: glass  
**87-307-0** Bulk

Type: metal  
**87-308-0** Bulk



**STATIC SAFE DISPENSERS**

The Solvent Dispenser combines a stainless steel pumping mechanism that provides an exact amount of fluid in a single hand operation. The hinged lid gives protection against dust and other impurities when the unit is not in use. The bottle is ESD safe.

Fluid content: 6 ounce  
**87-350-0** Bulk

Fluid content: 8 ounce  
**87-351-0** Bulk



**HDPE DISPENSERS**

The Solvent Dispenser combines a stainless steel pumping mechanism with an HDPE (High Density Polyethylene) bottle to provide an exact amount of fluid in a single hand operation. The hinged lid gives protection against dust and other impurities when the unit is not in use.

Fluid content: 4 ounce  
**87-374-0** Bulk

Fluid content: 6 ounce  
**87-376-0** Bulk

Fluid content: 8 ounce  
**87-378-0** Bulk



**SAFE WASH BOTTLE**

8 oz polyethylene bottle suitable for many liquid applications.

**87-352-0** Bulk

Menda dispensers are made of high density polyethylene. The stainless steel automatic fluid dispenser prevents toxic fumes and spills. A precision valve seals the contents in the bottle until required, increasing safety for the user. The pump action allows you to dispense only as much fluid as needed, preventing evaporation and spills. The unique cap seal stops the fluid from dripping back into the bottle causing any contamination and a hinged lid protects the dish when the bottle is not in use.



**ELECTRIC HEAT GUN**



Electric heat gun complete with deflector tips and paint removal tools. Features temperature control knob and On/Off switch with stage I and II selector.

Voltage: 120V/60Hz  
 Rated power: 1500W/12.5A  
 Air flow: 300l/min (I), 500l/min (II)  
 Temperature at nozzle outlet (approx.):  
 122-842°F / 50-450°C (I)  
 194-1112°F / 90-600°C (II)

**84-603A-1** Bulk

**WIRE GAUGE**



Stainless steel Wire Gauge.  
 36 AWG to 1 AWG, metric also.

**87-110-0** Bulk  
**87-110-1** Pkg.

**ROTARY TOOL KIT**



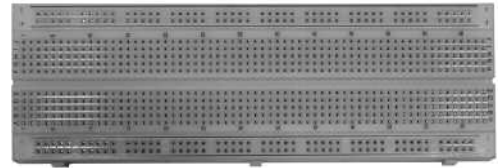
87-211-1 shown with Flexible Shaft attached

Variable Speed 8000 - 30000 RPM  
 CUL Approved

C/w 42 Accessories Including:  
 Flexible Shaft with 1/8" Chuck, 2 Drills, 4 Sanding Belts, 2 Diamond Bures, 10 Grinding Stones, 6 Cut-off Wheels, 8 Sanding Wheels, Collets, etc.

**87-211-1** Pkg.

**BREADBOARD STRIPS FOR PROTOTYPE DESIGN**



**88-840-1** Pkg.

Aluminum Plate 164x52x0.3mm  
 Board 165.1x54.6x8.5mm  
 ABS plastic with color printed  
 1 Terminal strip, 630 tie-point  
 2 Distribution strips, 200 tie-point



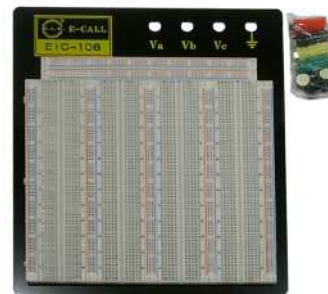
**88-842-1** Pkg.

Aluminum plate 215x130x1.2mm  
 Board 165.1x109.3x8.5mm  
 ABS plastic with color printed  
 2 Terminal strips, 1260 tie-point  
 4 Distribution strip, 400 tie-point  
 3 Binding posts  
 5 Cushions



**88-843-1** Pkg.

Aluminum plate 230x175x1.2mm  
 Board 174.8x165.1x8.5mm  
 ABS plastic with color printed  
 3 Terminal strips, 1890 tie-point  
 5 Distribution strip, 500 tie-point  
 4 Binding posts  
 5 Cushions

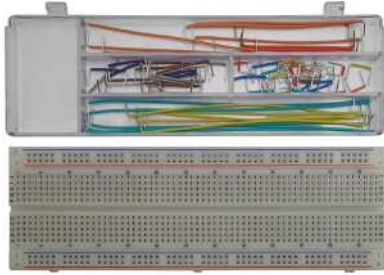


**88-844-1** Pkg.

Aluminum plate 240x210x1.2mm Board  
 184.4x190x8.5mm ABS plastic with color printed  
 4 Terminal strips, 2520 tie-point  
 7 Distribution strip, 700 tie-point  
 4 Binding posts  
 5 Cushions

**Visit our Web Site at**  
<http://www.mode-elec.com>

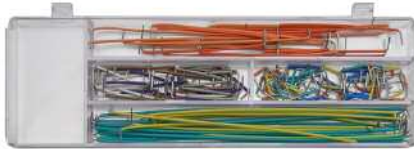
**BREADBOARD KIT WITH JUMPER WIRES**



**88-850-1** Pkg.

Board 165.1x54.6x8.5cm. ABS plastic with color printed  
1 Terminal strip, 630 tie-point  
2 Distribution strips, 200 tie-point  
70pc jumper wire kit included

**140 PIECE JUMPER WIRE KIT FOR BREADBOARDS**



**88-851-1** Pkg.

140 PIECES Stripped, Bent, 22 AWG Jumper Wires  
Includes 5 each of wires for jumping 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 40 and 50 nodes.

**350 PIECE JUMPER WIRE KIT FOR BREADBOARDS**



**88-852-1** Pkg.

350 PIECES Stripped, Bent, 22 AWG Jumper Wires  
Includes 25 each of wires for jumping 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 40 and 50 nodes.

**TRIGGER TRANSFORMER for 90-152**



170 volt input to 4KV output voltage. Suitable for the flash tube shown below.

**90-150-0** Bulk      **90-150-1** Pkg.

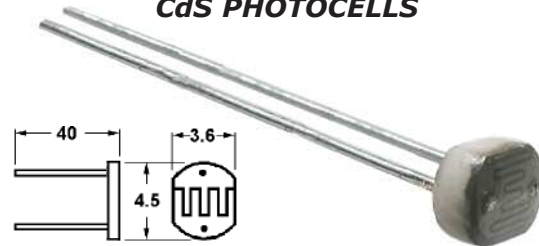
**XENON FLASH TUBE**



Anode to Cathode voltage	300V(200min/400 max)
Maximum energy/flash rate	4WS (watt seconds)
Flash Rate	1/second (Min.)
Nominal Life (flashes)	10 million
Trigger Voltage	4KV
Tube length	32mm
Tube width	16mm
Lead length	40mm
Lead spacing	10mm

**90-152-0** Bulk      **90-152-1** Pkg.

**CdS PHOTOCELLS**



	<b>90-154-0</b>	<b>90-155-0</b>
Peak Response(nm)	550nm	550nm
Min. Resistance(10 lux)	5K	11K
Max. Resistance(10 lux)	10K	20K
Min. Dark Resistance	500K	650K
Peak AC Voltage	100V	100V

	<b>90-156-0</b>	<b>90-157-0</b>
Peak Response(nm)	550nm	550nm
Min. Resistance(10 lux)	16K	30K
Max. Resistance(10 lux)	30K	60K
Min. Dark Resistance	700K	1.5M
Peak AC Voltage	150V	150V

Use -1 for Display Package

**MODE ELECTRONICS LTD.**  
211 - 2999 UNDERHILL AVE.,  
BURNABY, B.C., CANADA, V5A 3C2  
Phone: 604-435-6633  
Fax: 604-435-8890  
Toll Free: 1-800-663-4992  
Web Site: www.mode-elec.com

## TYPES OF BRISTLE MATERIALS

### Natural bristle materials

#### Goat Hair

Goat hair is a very soft yet fine natural material with properties that make it excellent for use in fine polishing and cleaning. It is non conductive.

#### Horse Hair

Horse hair is soft, resilient and long lasting. excellent for sweeping polished surfaces. Horse hair works well for dusting, flux removal and general cleanup. It is non conductive.

#### Hog Bristle

Natural Hog Bristle is resilient and is the stiffest natural material available. A Hog Bristle brush will provide the best possible cleanup. It works well when dealing with sticky, crusty materials or viscous fluids. It is non conductive.

### Synthetic bristle materials

#### Nylon

Nylon is the toughest and most durable synthetic material available. Nylon bristles discourage bacterial growth and resist most acids. It is non-shedding, and is excellent for cleaning and scrubbing applications with its strong abrasion resistance properties. It does not scratch most surfaces.

### Wire Materials

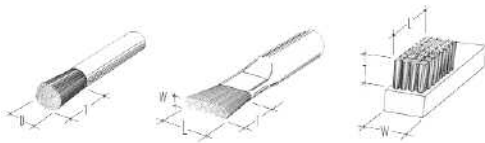
#### Brass

Brass is a softer wire than stainless steel, yet ideal for uses that include burnishing, polishing, non-sparking static removal and some deburring and material removal. Wire diameters range from extremely soft to stiff.

#### Stainless Steel

Stainless Steel is a highly corrosion-resistant wire to be used where contamination or rust is a problem. Stainless Steel bristle range from extremely soft to stiff. The fine, .003" diameter, wire is excellent for burnishing without removing the base material. Rust-proof and very strong, Stainless Steel is used to prevent harmful ferrous deposits on brushed parts. It is non-shedding.

## BRUSH DIMENSIONS



**D**=Diameter **L**=Bristle Length **T**=Bristle Trim **W**=Bristle Width

All metal, plastic, and wood handle brushes can be used in ESD sensitive environments as long as the brush remains saturated in liquid. It is recommended that the brush be tested on the required application to confirm ESD compatibility.

All Insulative brushes are made of all non-shedding material that is perfect for use in cleaning very small areas that ESD and Cleanroom functions demand.

## BRUSH DESIGN CONSIDERATIONS

The most critical aspects of the ESD brush are the fiber, the core or handle material, and grounding. Surface resistivity of the brush materials largely determines the electrostatic properties of the brush. Surface resistivity is a mathematical representation of a material's ability to resist the passage of electricity across its surface. The range of surface resistivity (in Ohms) is as follows:

**10<sup>12</sup> - 10<sup>16</sup> Insulative materials**  
**10<sup>5</sup> - 10<sup>11</sup> Dissipative materials**  
**10<sup>2</sup> - 10<sup>4</sup> Conductive materials**

These classifications (Conductive, Dissipative, Insulative) along with Anti-Static (static charge inhibitors) are used to segregate the brushes into useful groups in this catalog. The type of brush you will require depends on your application for the brush that is based in part upon the surface resistivity required for that application.

If the mounting location is not grounded, then a grounding strap or wire incorporating a 1 Meg Ohm resistor should be used between the brush and an electrical ground. Potentially severe bodily harm may result from the use of a conductive brush if a 1 Meg Ohm resistor is not used.

## BRUSH CATEGORIES

### Conductive Brushes

Conductive Brushes have a surface resistivity of 10<sup>2</sup> - 10<sup>4</sup> and are perfect to use when you need to remove static buildup from the work surface. Conductive brushes will act as a conduit between the charged surface and the path to ground. Made with fully conductive materials that are active static eliminators, your choice becomes the style and size that best works for you. Please use these brushes with a wrist strap or other mechanism to provide a path to ground.

### Anti-Static Brushes

Anti-Static brushes are made from low charging materials and natural materials that are near neutral on the triboelectric chart of static generation. They neither give nor take electrons and, therefore, remain essentially electrically neutral. There can, however, be a slight charge created. In extreme voltage sensitive applications, these brushes should be used only in a liquid environment.

### Insulative Brushes

Insulative brushes have a surface resistivity of 10<sup>12</sup> - 10<sup>16</sup> and are an inexpensive water resistant alternative to Anti-Static Brushes. They are best used in an environment where static is not critical to the task at hand or where the brush is submerged in liquid when in use.

**DOUBLE ENDED SERIES  
(ANTI-STATIC)**



This Series has two sizes with two end styles (tapered and flat) to fit your needs. Fibers are mechanically clamped into the handle for maximum fiber retention so that no adhesives can leach out and contaminate surface being cleaned. Brushes are available with Horse Hair (HH) or Hog Bristle (CK) material. Handle material for 1005 is Stainless Steel, and the 1010 handle is Zink Plated Steel.

Bristle material	Part #	Part #
Hog Bristle	<b>1005CK</b>	<b>1010CK</b>
Horse Hair	<b>1005HH</b>	<b>1010HH</b>
<b>Handle Length</b>	4 1/2"	4 1/2"
<b>Diameter</b>	3/16"	3/8"
<b>Bristle Trim Length</b>	1/4" - Tapered 1/2" - Flat	3/16" - Tapered 1/4" - Flat
<b>Turf Diamter</b>	Oval	Oval
<b>Use</b>	Short end for haeavy duty scrubbing Chiseled end to reach and scrub tight corners	

**1 SERIES (ANTI-STATIC)**



This Series is an inexpensive utility duster/cleaner. It is an excellent replacement for throw away acid brushes that can lose fibers. Mechanical fiber clamping construction of a Zinc Plated Steel handle holds the fiber in place with no adhesives to leach out and contaminate cleaning fluid supply.

Bristle material	Part #
Hog Bristle	<b>1CK</b>
Horse Hair	<b>1HH</b>
<b>Handle Length</b>	4 1/2"
<b>Diameter</b>	3/8"
<b>Bristle Trim Len.</b>	3/4"
<b>Tuft Dia. (Oval)</b>	7/16"
<b>Use</b>	Rework or cleanup; use dry or with fluids

**ALUMINUM HANDLE SERIES  
(ANTI-STATIC)**



The 11A and 33A Series has Aluminum handle and comes with one or three rows of bristles. These brushes are great for fine detailing and fitting into tight areas. The fibers are hand laced for better fiber retention and durability.

Bristle material	Part #
Hog Bristle	<b>11CKA</b>
<b>Handle Length</b>	6 7/16"
<b>Handle Width</b>	1/8"
<b>Bristle Trim Len.</b>	7/16"
<b>Bristle Length</b>	1 3/16"
<b>Bristle Width</b>	3/16"
<b>Use</b>	Fine detail cleaning

**WOOD SCRATCH BRUSHES  
(ANTI-STATIC)**



The 11P, 14, and 15 Series brushes are the same style Plywood handles, with one, two or three rows of bristles, hand laced with stainless steel wire for maximum fiber retention and long use. The 11P has a small face width. The 14 Series has a slightly wider Plywood handle. The 46 Series is a large scrubber brush to be used when wide areas are cleaned.

Bristle material	Part #	Part #	Part #
Hog Bristle	<b>11CKP</b>	<b>14CK</b>	<b>15CK</b>
Horse Hair		<b>14HH</b>	<b>15HH</b>
Stainless Steel	<b>11SSP</b>		<b>15SS</b>
Brass			<b>15B</b>
<b>Handle Length</b>	7 3/4"	7 3/4"	7 3/4"
<b>Handle Width</b>	7/16"	7/16"	7/16"
<b>Bristle Trim Len.</b>	7/16"	7/16"	7/16"
<b>Bristle Length</b>	1 3/8"	1 3/8"	1 3/8"
<b>Bristle Width</b>	1/8"	1/4"	1/4"
<b>Use</b>	Fine detail cleaning	Slightly wider for tough spots	Detail cleaning and scrubbing

**ALUMINUM HANDLE SERIES  
(CONDUCTIVE)**



The 11A, 22A and 33A Series brushes are the same style aluminum handles, with one, two or three rows of bristles. Bristle material is soft Stainless Steel (SS) or soft Brass (B). These brushes are great for fine detailing and fitting into tight areas. The fiber are hand laced for better fiber retention and durability.

Bristle material	Part #
Brass	
Stainless Steel	<b>11SSA</b>
<b>Handle Length</b>	6 7/16"
<b>Handle Width</b>	1/8"
<b>Bristle Trim Len.</b>	7/16"
<b>Bristle Length</b>	1 3/16"
<b>Bristle Width</b>	3/16"
<b>Bristle Rows</b>	1
<b>Use</b>	Fine detail cleaning

**MODE ELECTRONICS LTD.**  
211 - 2999 UNDERHILL AVE.,  
BURNABY, B.C., CANADA, V5A 3C2  
Phone: 604-435-6633  
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Toll Free: 1-800-663-4992  
Web Site: www.mode-elec.com



**WOOD SCRATCH BRUSHES  
(ANTI-STATIC)**



The 30 Series is a small, inexpensive, three row "scratch" or "toothbrush" style brush made of rugged and static-neutral Plywood. The 36 Series is a four row "scratch" brush on a larger handle. Horse Hair versions are great cleaners/dusters. Hog Bristle versions work great where a stiffer brush is needed.

Bristle material	Part #	Part #
Hog Bristle	<b>30CK</b>	<b>36CK</b>
Horse Hair	<b>30HH</b>	
Stainless Steel	<b>30SS</b>	
Brass	<b>30B</b>	
<b>Handle Length</b>	7 3/4"	8 3/8"
<b>Handle Width</b>	7/16"	1 1/16"
<b>Bristle Trim Len.</b>	7/16"	3/4"
<b>Bristle Length</b>	1 3/8"	2 1/8"
<b>Bristle Width</b>	1/4"	7/8"
<b>Use</b>	Board rework and cleanup	Board rework and cleanup. Gen. utility

**ACID BRUSHES**



Disposable brushes for applying acid, glue, or coatings. Very popular when one time usage is necessary. Tin ferrule handle with 6" overall length for all the AB series.

- 3/8" Diameter Horse Hair/Tin Handle Acid Brush  
**AB4**(package of 12)      **AB4G**(package of 144)
- 1/2" Diameter Horse Hair/Tin Handle Acid Brush  
**AB5**(package of 12)      **AB5G**(package of 144)

**WA SERIES (ANTI-STATIC)**



This series is comprised of various wood handle sizes designed for dusting and scrubbing, particularly on circuit boards. The WA7 Series has an "orange stick" chiseled handle on one end for debris removal. The WA12 Series is a heavy-duty scrubber or duster.

Bristle material	Part #	Part #
Hog Bristle		<b>WA12CK</b>
Horse Hair	<b>WA7HH</b>	<b>WA12HH</b>
<b>Handle Length</b>	7"	4 15/16"
<b>Handle Width</b>	1/8"	1/4"
<b>Bristle Trim Len.</b>	1/2"	1/2"
<b>Bristle Length</b>	N/A	7/8"
<b>Bristle Width</b>	N/A	3/8"
<b>Use</b>	Detail brush For small to large areas, especially on circuit boards	Duster/scrub

**SST SERIES (ANTI-STATIC)**



Bristle material	Part #
Hog Bristle	<b>SST10CK</b>
Horse Hair	<b>SST10HH</b>
<b>Handle Length</b>	4 3/4"
<b>Diameter</b>	5/16"
<b>Bristle Trim Len.</b>	3/8"
<b>Turf Dia. (Oval)</b>	3/8"
<b>Use</b>	Fluid applicator & general use

This series includes four handy sizes to fit most benchwork needs. All are made with Stainless Steel handles. All have strong mechanical fiber clamping for maximum fiber retention and no adhesives that can leach out and contaminate surface areas.

**SST SERIES (INSULATIVE)**



Bristle material	Part #
Nylon	<b>SST10N</b>
<b>Handle Length</b>	4 3/4"
<b>Diameter</b>	5/16"
<b>Bristle Trim Len.</b>	3/8"
<b>Turf Dia. (Oval)</b>	3/8"
<b>Use</b>	Fluid applicator

This series includes four handy sizes to fit most benchwork needs. All have strong mechanical fiber clamping on a Stainless Steel handle for maximum Nylon fiber retention and no adhesives that can leach out and contaminate surface areas.

**THROWAWAY PAINT/CHIP BRUSHES**



Bristle trim length: 1"

	Part #	Part #
	<b>TA605</b>	<b>TA610</b>
Size	1/2"	1"

**The brushes shown in this catalog are stocked. Gordon Brush has many additional types available - contact us for details. To check what is available from Gordon Brush please go to [www.gordonbrush.com](http://www.gordonbrush.com)**

## NEW ITEMS

We have added new items since the last catalog was printed. Please take a moment to check out these new items in the following list. The new items are highlighted in the catalog.

21-192-0	SMA Plug to BNC Plug	Page 10
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**IMPORTANT NOTICE**

Although every possible effort has been made to ensure that the information in this catalog is accurate, there is always the possibility that there are errors in the information provided. Please accept our apologies, in advance, for any inconvenience this might cause.

Please understand that all specifications are subject to change without notice. This notice is necessary because occasionally a manufacturer may change specifications for an item or a design may be changed slightly for a variety of reasons. In most cases these changes should result in a better product.

The specifications in this catalog are based on the manufacturers data or a safety organizations ratings of a product and should not be exceeded at any time. If you have an unusual application for an item, please check with Mode to ensure that the product is suitable for your application.

**MODE ELECTRONICS LTD.**  
**211 - 2999 UNDERHILL AVE.,**  
**BURNABY, B.C., CANADA, V5A 3C2**  
**Phone: 604-435-6633**  
**Fax: 604-435-8890**  
**Toll Free: 1-800-663-4992**  
**Web Site: www.mode-elec.com**

**E-MAIL INQUIRIES**  
**info@mode-elec.com**