

# ***Superior***

***Electric***

## **5-WAY® Binding Posts and SUPERCON® Electrical Connectors**



VARIABLE TRANSFORMERS • VOLTAGE REGULATORS • POWER CONDITIONERS • LIGHTING CONTROLS • MOTION CONTROLS

# Standard and Miniature Single Assembly

## 5-WAY® Binding Posts

5-WAY® Binding Posts have positive-stop captive thumbnuts that allow space to make connections yet reduce the likelihood of accidentally contacting current carrying parts. They are available in red, white, blue, yellow, black and green. BP31 fluted nut types have insulating parts of Lexan® polycarbonate resin which has a higher DC insulation resistance at all operating temperatures and significantly lower capacitance which provides greater resistance to high frequency leakage effects. All others have nylon plastic per MIL-P20693A, Type IV. Current carrying parts are gold, nickel or tin

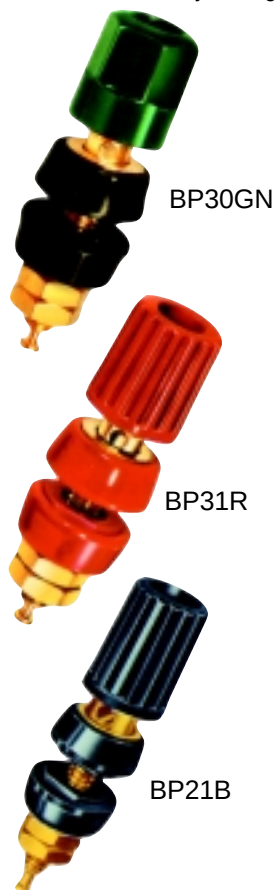
plated brass for improved conductivity and corrosion resistance. Metal parts are recessed for user and instrument protection and none touch the mounting panel. All are available in single packs or 100-quantity bulk packs. They are Underwriters Laboratories recognized components.

**Standard Hex Nut and Fluted Nut Types** - Rated for 30 A, 1000 V working.

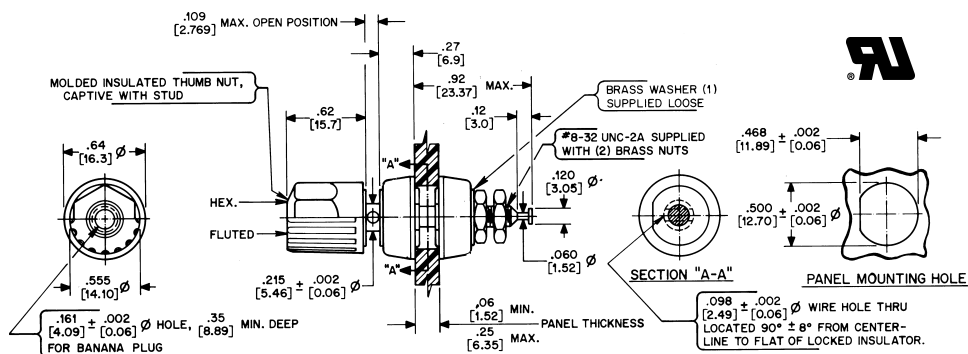
**Miniature Fluted Nut Types** - Rated for 15A, 1000 V working.

| Standard Hex Nut Type** | Standard Fluted Nut Type** | Miniature Fluted Nut Type** | Color Plastic Parts | Plating on Brass Parts |
|-------------------------|----------------------------|-----------------------------|---------------------|------------------------|
| BP30R                   | BP31R                      | BP21R                       | Red                 | Gold                   |
| BP30WT                  | BP31WT                     | BP21WT                      | White               | Gold                   |
| BP30BL                  | BP31BL                     | BP21BL                      | Blue                | Gold                   |
| BP30Y                   | BP31Y                      | BP21Y                       | Yellow              | Gold                   |
| BP30B                   | BP31B                      | BP21B                       | Black               | Gold                   |
| BP30GN                  | BP31DG                     | BP21GN                      | Green               | Gold                   |

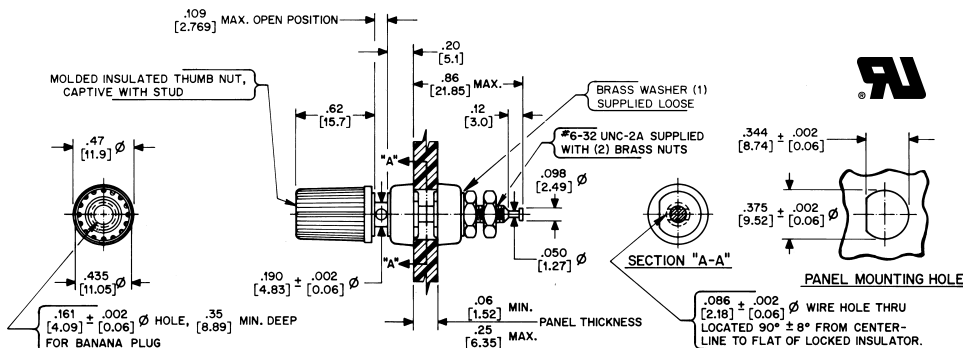
\*\* Type numbers given are for binding posts with gold plated brass parts. For nickel plated brass parts add suffix N, for tin plated brass parts add suffix T; for example, BP30GNN (nickel) or BP30GNT (tin). Order single pack quantities by adding suffix "-1 PKG", for example BP21R-1 PKG; order bulk pack quantities by adding suffix "-B PKG", for example BP21R-B PKG.



### TYPES BP30 and BP31 DIMENSIONS



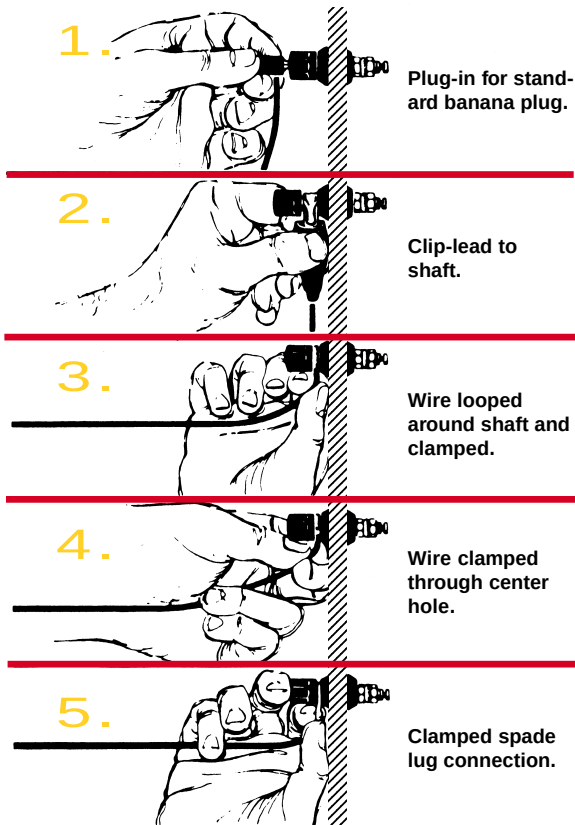
### TYPE BP21 DIMENSIONS



\*Lexan is a General Electric Trademark

# Larger Stud Single Assembly

## 5-WAY® Binding Posts



Larger stud single assembly types have the same features as types described on page 2 but have a larger #10-32 stud for behind the panel connections. Grounding type is made of polished nickel plated brass.

**Larger Stud Hex Nut and Fluted Nut Types -**  
Rated for 30A, 1000 V working.

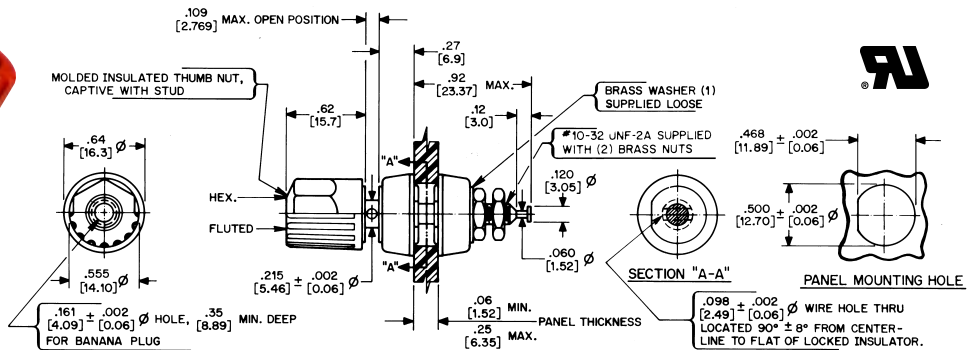
**All Metal Grounding Type BP30GP10 -** For making rapid connections to ground.

| Larger Stud Hex Nut Type** | Larger Stud Fluted Nut Type** | Color of Plastic Parts | Plating On Brass Parts |
|----------------------------|-------------------------------|------------------------|------------------------|
| BP30-10R                   | BP31-10R                      | Red                    | Gold                   |
| BP30-10WT                  | BP31-10WT                     | White                  | Gold                   |
| BP30-10BL                  | BP31-10BL                     | Blue                   | Gold                   |
| BP30-10Y                   | BP31-10Y                      | Yellow                 | Gold                   |
| BP30-10B                   | BP31-10B                      | Black                  | Gold                   |
| BP30-10GN                  | BP31-10DG                     | Green                  | Gold                   |
| BP30GP10                   | N/A                           | N/A                    | Nickel                 |

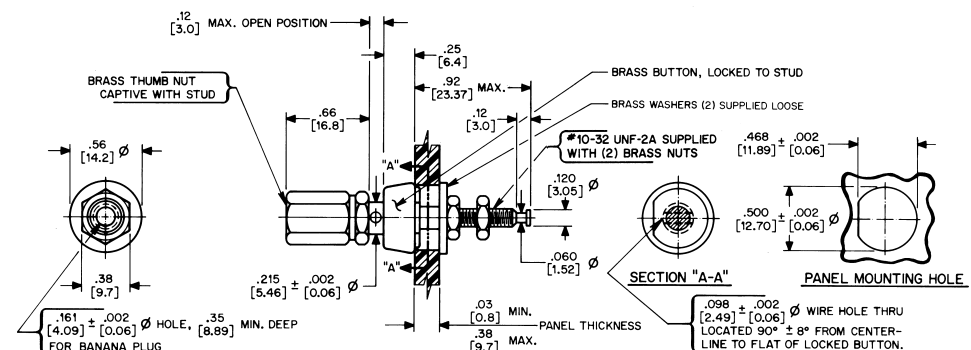
\*\* Type numbers given are for larger stud binding posts with gold plated brass parts, except BP30GP10 which is nickel plated. For nickel plated brass parts add suffix N, for tin plated brass parts add suffix T; for example, BP30-10GNN (nickel) or BP30-10GNT (tin). Order single pack quantities by adding suffix "-1 PKG", for example BP30-10B-1 PKG; order bulk pack quantities by adding suffix "-B PKG", for example BP30-10B-B PKG.



### TYPES BP30-10 and BP31-10 DIMENSIONS



### TYPE BP30GP10 DIMENSIONS



# Standard, Miniature and Larger Stud Double Assembly

## 5-WAY® Binding Posts

Double Assembly 5-WAY® Binding Posts are designed for faster, more accurate mounting on 3/4-inch (19mm) centers. Conventional miniature, standard and larger stud types have panel insulating parts in black only. Thumbnuts are available in color combinations of red and black, black and black and red and red. Plastic insulating parts have the same characteristics as single types. Metal parts are available in gold, nickel or tin plated brass parts.

Double assembly types are available in single packs or in 10-quantity bulk packs. All are Underwriters Laboratories recognized components.

**Standard Hex Nut and Fluted Nut Types** - Rated for 30 A, 1000 V working.

**Miniature Fluted Nut Types** - Rated for 15A, 1000 V working.



| Thumbnuts                     |               | Plating<br>on Brass<br>Parts | TYPE*                              | Max.<br>Amps | Insulator<br>Color |
|-------------------------------|---------------|------------------------------|------------------------------------|--------------|--------------------|
| Design                        | Colors        |                              |                                    |              |                    |
| Miniature (#6-32 UNC-2A Stud) |               |                              |                                    |              |                    |
| Fluted                        | Black & Black | Gold<br>Nickel<br>Tin        | BP21-2BB<br>BP21-2BBN<br>BP21-2BBT | 15           | Black              |
|                               | Red & Red     | Gold<br>Nickel<br>Tin        | BP21-2RR<br>BP21-2RRN<br>BP21-2RRT |              |                    |
|                               | Black & Red   | Gold<br>Nickel<br>Tin        | BP21-2BR<br>BP21-2BRN<br>BP21-2BRT |              |                    |



|                              |               |                       |                                    |    |       |
|------------------------------|---------------|-----------------------|------------------------------------|----|-------|
| Standard (#8-32 UNC-2A Stud) |               |                       |                                    |    |       |
| Hex                          | Black & Black | Gold<br>Nickel<br>Tin | BP30-2BB<br>BP30-2BBN<br>BP30-2BBT | 30 | Black |
|                              | Red & Red     | Gold<br>Nickel<br>Tin | BP30-2RR<br>BP30-2RRN<br>BP30-2RRT |    |       |
|                              | Black & Red   | Gold<br>Nickel<br>Tin | BP30-2BR<br>BP30-2BRN<br>BP30-2BRT |    |       |
| Fluted                       | Black & Black | Gold<br>Nickel<br>Tin | BP31-2BB<br>BP31-2BBN<br>BP31-2BBT | 30 | Black |
|                              | Red & Red     | Gold<br>Nickel<br>Tin | BP31-2RR<br>BP31-2RRN<br>BP31-2RRT |    |       |
|                              | Black & Red   | Gold<br>Nickel<br>Tin | BP31-2BR<br>BP31-2BRN<br>BP31-2BRT |    |       |



|                                  |               |                       |                                          |    |       |
|----------------------------------|---------------|-----------------------|------------------------------------------|----|-------|
| Larger Stud (#10-32 UNF-2A Stud) |               |                       |                                          |    |       |
| Hex                              | Black & Black | Gold<br>Nickel<br>Tin | BP30-2BB10<br>BP30-2BB10N<br>BP30-2BB10T | 30 | Black |
|                                  | Red & Red     | Gold<br>Nickel<br>Tin | BP30-2RR10<br>BP30-2RR10N<br>BP30-2RR10T |    |       |
|                                  | Black & Red   | Gold<br>Nickel<br>Tin | BP30-2BR10<br>BP30-2BR10N<br>BP30-2BR10T |    |       |
| Fluted                           | Black & Black | Gold<br>Nickel<br>Tin | BP31-2BB10<br>BP31-2BB10N<br>BP31-2BB10T | 30 | Black |
|                                  | Red & Red     | Gold<br>Nickel<br>Tin | BP31-2RR10<br>BP31-2RR10N<br>BP31-2RR10T |    |       |
|                                  | Black & Red   | Gold<br>Nickel<br>Tin | BP31-2BR10<br>BP31-2BR10N<br>BP31-2BR10T |    |       |

\* Order single pack quantities by adding suffix "-1 PKG", for example BP30-2BB-1 PKG; order bulk pack quantities by adding suffix "-B PKG", for example BP30-2BB-B PKG.



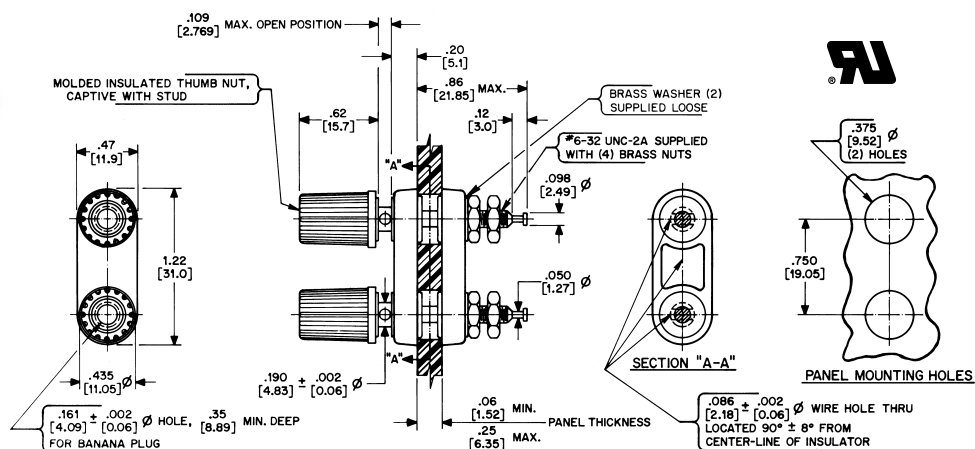
# Standard, Miniature and Larger Stud Double Assembly

## 5-WAY® Binding Posts

### TYPE BP21-2BR DIMENSIONS



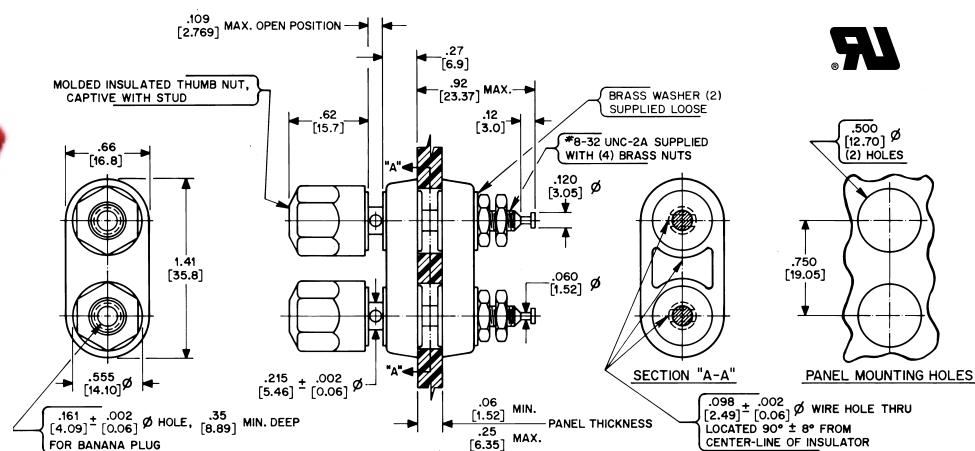
BP21-2BR



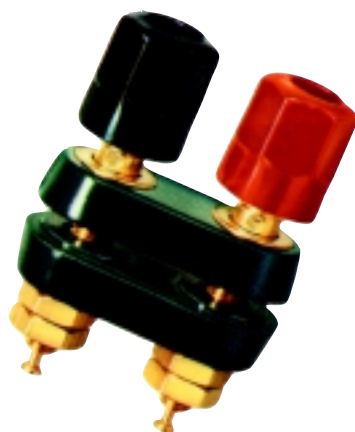
### TYPE BP30-2BR DIMENSIONS



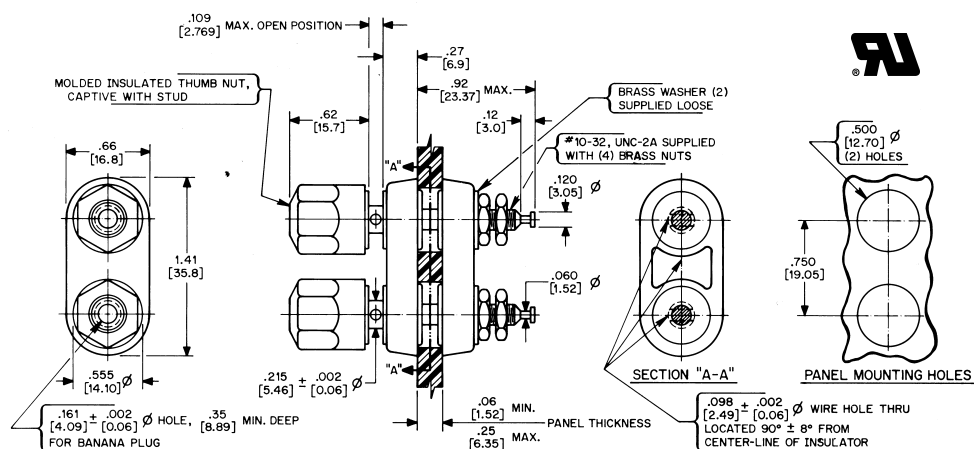
BP30-2BR



### TYPE BP30-2BR10 DIMENSIONS



BP30-2BR10



# Custom Color Ring

## 5-WAY® Binding Posts

All cataloged Custom Color Ring Series types have neutral gray plastic insulating parts. Single assembly types have thumbnut-imbedded rings in red, white, blue, yellow, black or green plastic while double assembly types have thumbnut color rings in black-red only. All are available with current carrying parts in gold, nickel or tin plated brass. BP31 Series fluted nut types have insulating parts molded of Lexan polycarbonate resin which has a higher DC insulation resistance at all operating temperatures and significantly lower capacitance which provides greater resistance to high frequency leakage effects. All others have nylon plastic per MIL-P-20693A, Type IV. All types with “-10” in the suffix have larger 10-32 studs for making behind the panel connections. Contingent upon minimum quantity

requirements, insulating part color can be customized. Inquiries are invited. Single assembly types are available in single packs or 100-quantity bulk packs; double assembly types are available in single packs or 10-quantity bulk packs. They are Underwriters Laboratories recognized components.

**Single Assembly Standard Hex Nut and Fluted Nut Types** - Rated for 30 A, 1000 V working.

**Single Assembly Miniature Fluted Nut Types** - Rated for 15A, 1000 V working.

**Double Assembly Standard Hex Nut and Fluted Nut Types** - Rated for 30 A, 1000 V working.

**Double Assembly Miniature Fluted Nut Types** - Rated for 15A, 1000 V working.

### SINGLE ASSEMBLY TYPES

| Type†        | Description          | Plating On Brass | Thread Size |
|--------------|----------------------|------------------|-------------|
| BP21GY1*     | Miniature Fluted Nut | Gold             | 6-32        |
| BP30GY1*     | Standard Hex Nut     | Gold             | 8-32        |
| BP31GY1**    | Standard Fluted Nut  | Gold             | 8-32        |
| BP30GY1-10*  | Standard Hex Nut     | Gold             | 10-32       |
| BP31GY1-10** | Standard Fluted Nut  | Gold             | 10-32       |

### DOUBLE ASSEMBLY TYPES

|               |                      |      |       |
|---------------|----------------------|------|-------|
| BP21GY1-2BR   | Miniature Fluted Nut | Gold | 6-32  |
| BP30GY1-2BR   | Standard Hex Nut     | Gold | 8-32  |
| BP31GY1-2BR   | Standard Fluted Nut  | Gold | 8-32  |
| BP30GY1-2BR10 | Standard Hex Nut     | Gold | 10-32 |
| BP31GY1-2BR10 | Standard Fluted Nut  | Gold | 10-32 |

\* Enter desired ring color code: R (red), B (black), BL (blue), GN (green), WT (white), Y (yellow).

\*\* Enter desired ring color code: R (red), B (black), BL (blue), DG (green), WT (white), Y (yellow).

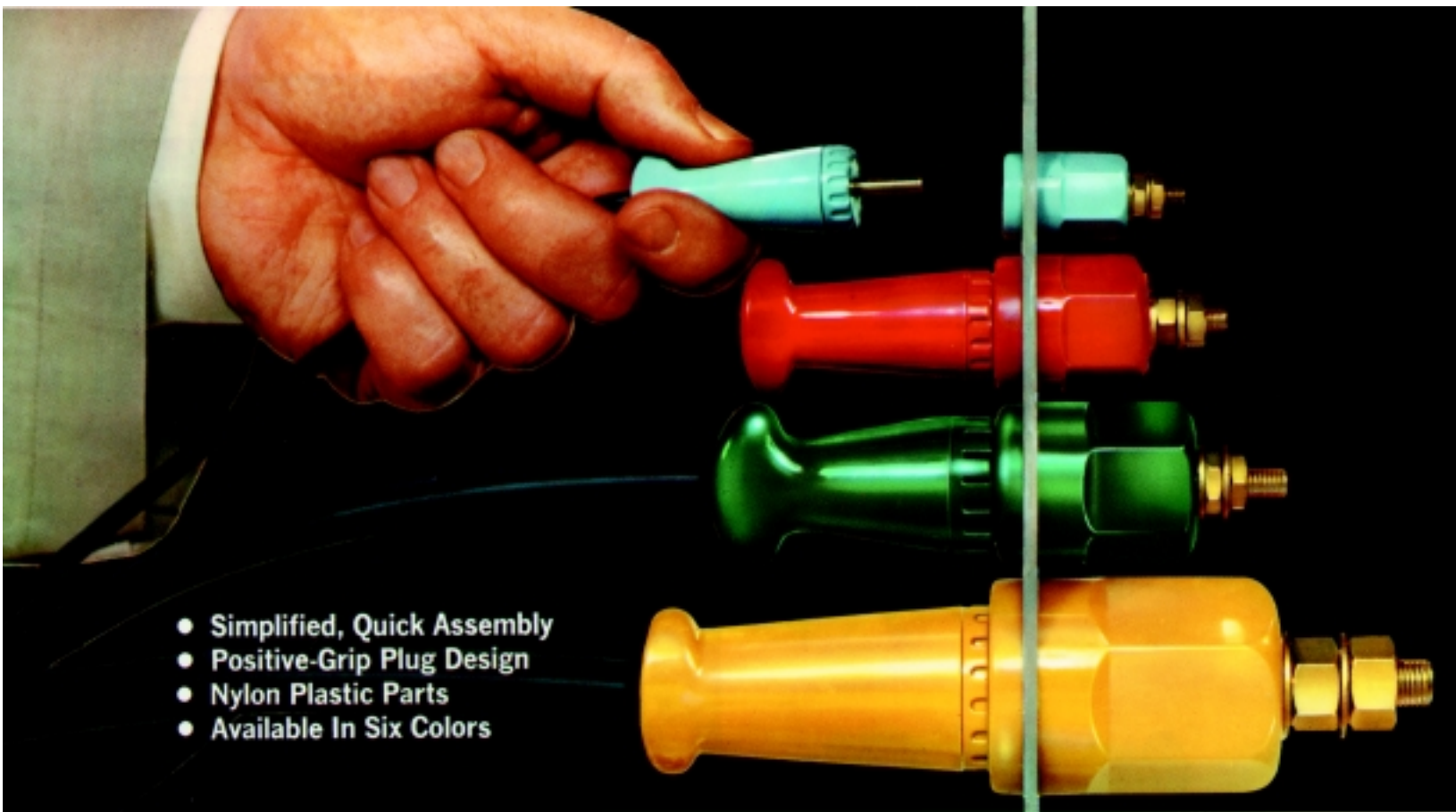
† Type numbers given are for binding posts with gold plated brass parts. For nickel plated brass parts add suffix N, for tin plated brass parts add suffix T; for example, BP30GY1RN (nickel) or BP30GY1RT (tin). Order single pack quantities by adding suffix “-1 PKG”, for example BP21GY1R-1 PKG; order bulk pack quantities by adding suffix “-B PKG”, for example BP21GY1R-B PKG.

*See pages 2, 3, 4 and 5 for complete outline dimensions*



# SUPERCON®

## Electrical Connectors



- Simplified, Quick Assembly
- Positive-Grip Plug Design
- Nylon Plastic Parts
- Available In Six Colors

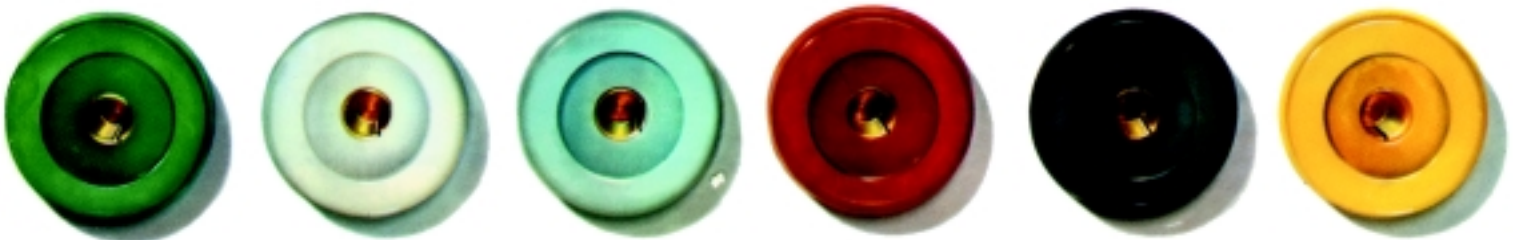
SUPERCON® Electrical Connectors incorporate many advanced engineering features designed to provide safe, rapid and positive panelboard connections. Single conductor socket and pin type plugs and receptacles are offered in 25, 50, 100 and 250 Amp capacities.

The 25, 50 and 100 Amp types are rated 125-250 VAC or DC current interrupting, 600 V unenergized connect or disconnect use only; 250 Amp types are rated 600 V unenergized connect or disconnect use only. The 25, 50 and 100 Amp types are CSA certified under file No. LR-17812.

**PLUGS** - Plugs have a unique functionally designed grip for handling ease and convenience. The variety of red, white, blue, yellow, black or green colors

permits wider latitude in patchboard distribution layouts. Wiring connection to the same plug can be either soldered or solderless. Cable fastening screws are provided which permit a range of cable sizes to be accommodated by the plug. All plug grips are of a simple, two-piece threaded construction for quick assembly.

**RECEPTACLES** - Receptacles have color-matched nylon caps and bodies. All plastic parts of a receptacle are molded through in the same color to permit more rapid and accurate circuit identification on both the front and back of the panel when installed. Wiring connections are made to a threaded stud by wire wraparound, by lug or bus bar connection.





# SUPERCON®

## Electrical Connectors



PP25GR



RS25GR



PS25GWT



RP25GWT

| 25 AMPERE TYPES |                   |          |                |             |
|-----------------|-------------------|----------|----------------|-------------|
| COLOR           | SOCKET RECEPTACLE | PIN PLUG | PIN RECEPTACLE | SOCKET PLUG |
| BLACK           | RS25GB            | PP25GB   | RP25GB         | PS25GB      |
| YELLOW          | RS25GY            | PP25GY   | RP25GY         | PS25GY      |
| RED             | RS25GR            | PP25GR   | RP25GR         | PS25GR      |
| BLUE            | RS25GBL           | PP25GBL  | RP25GBL        | PS25GBL     |
| GREEN           | RS25GGN           | PP25GGN  | RP25GGN        | PS25GGN     |
| WHITE           | RS25GWT           | PP25GWT  | RP25GWT        | PS25GWT     |



PP50GY



RS50GY



PS50GBL



RP50GBL

| 50 AMPERE TYPES |                   |          |                |             |
|-----------------|-------------------|----------|----------------|-------------|
| COLOR           | SOCKET RECEPTACLE | PIN PLUG | PIN RECEPTACLE | SOCKET PLUG |
| BLACK           | RS50GB            | PP50GB   | RP50GB         | PS50GB      |
| YELLOW          | RS50GY            | PP50GY   | RP50GY         | PS50GY      |
| RED             | RS50GR            | PP50GR   | RP50GR         | PS50GR      |
| BLUE            | RS50GBL           | PP50GBL  | RP50GBL        | PS50GBL     |
| GREEN           | RS50GGN           | PP50GGN  | RP50GGN        | PS50GGN     |
| WHITE           | RS50GWT           | PP50GWT  | RP50GWT        | PS50GWT     |



PP100GB



RS100GB



PS100GGN



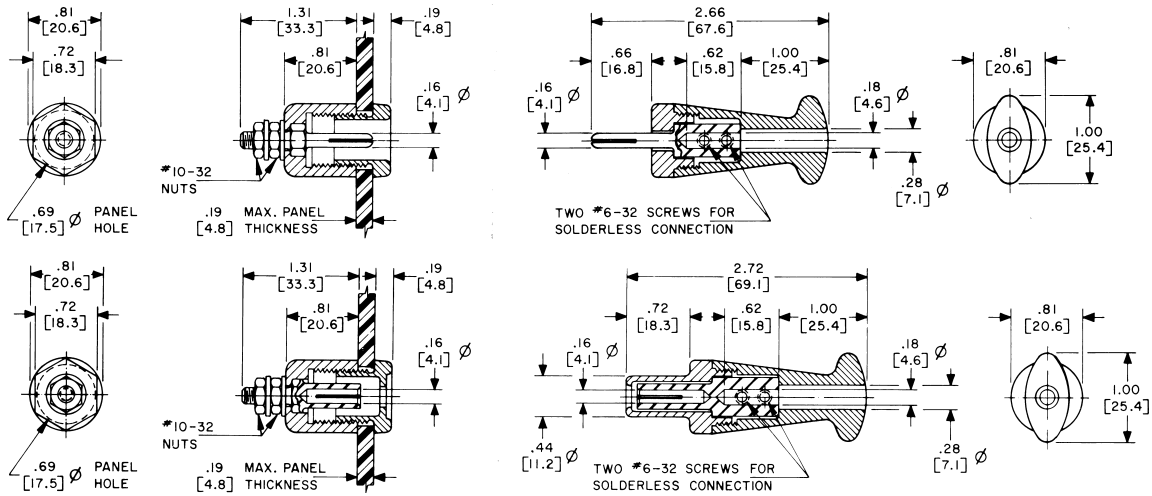
RP100GGN

| 100 AMPERE TYPES |                   |          |                |             |
|------------------|-------------------|----------|----------------|-------------|
| COLOR            | SOCKET RECEPTACLE | PIN PLUG | PIN RECEPTACLE | SOCKET PLUG |
| BLACK            | RS100GB           | PP100GB  | RP100GB        | PS100GB     |
| YELLOW           | RS100GY           | PP100GY  | RP100GY        | PS100GY     |
| RED              | RS100GR           | PP100GR  | RP100GR        | PS100GR     |
| BLUE             | RS100GBL          | PP100GBL | RP100GBL       | PS100GBL    |
| GREEN            | RS100GGN          | PP100GGN | RP100GGN       | PS100GGN    |
| WHITE            | RS100GWT          | PP100GWT | RP100GWT       | PS100GWT    |

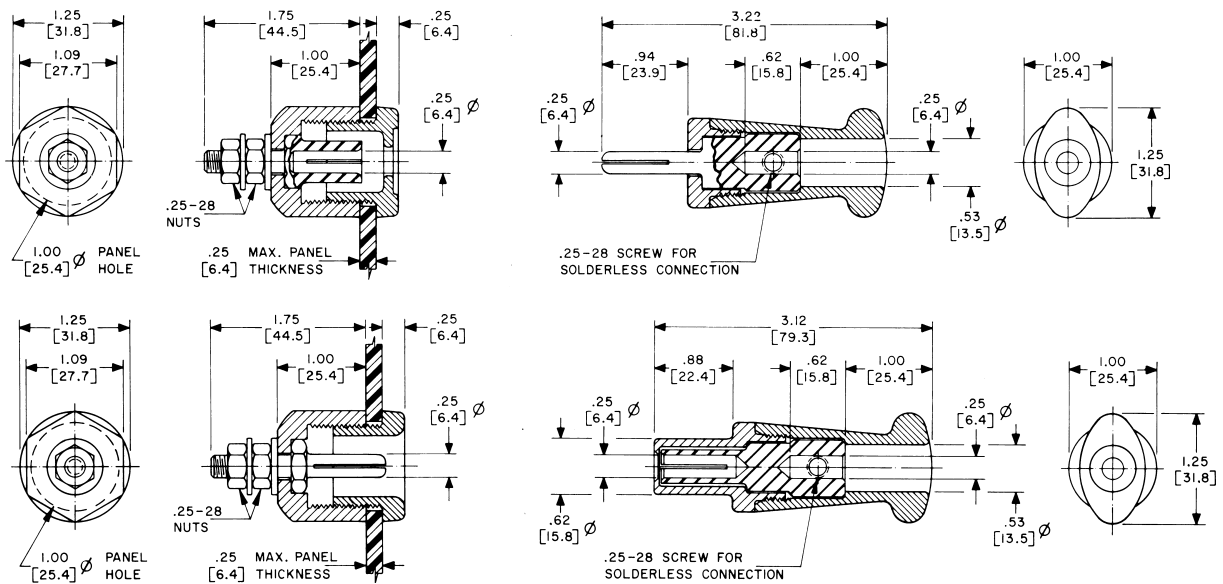




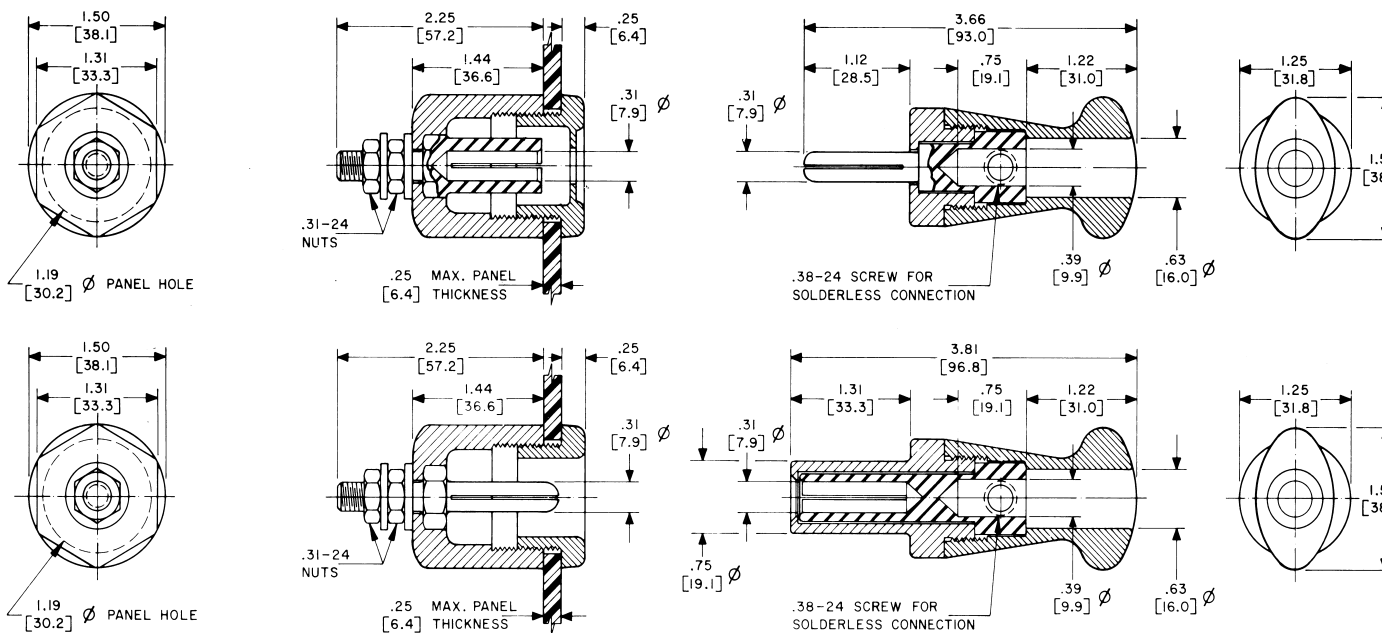
## 25 AMPERE TYPES OUTLINES



## 50 AMPERE TYPES OUTLINES



## 100 AMPERE TYPES OUTLINES



# SUPERCON®

## Electrical Connectors



PP250GY

RS250GY

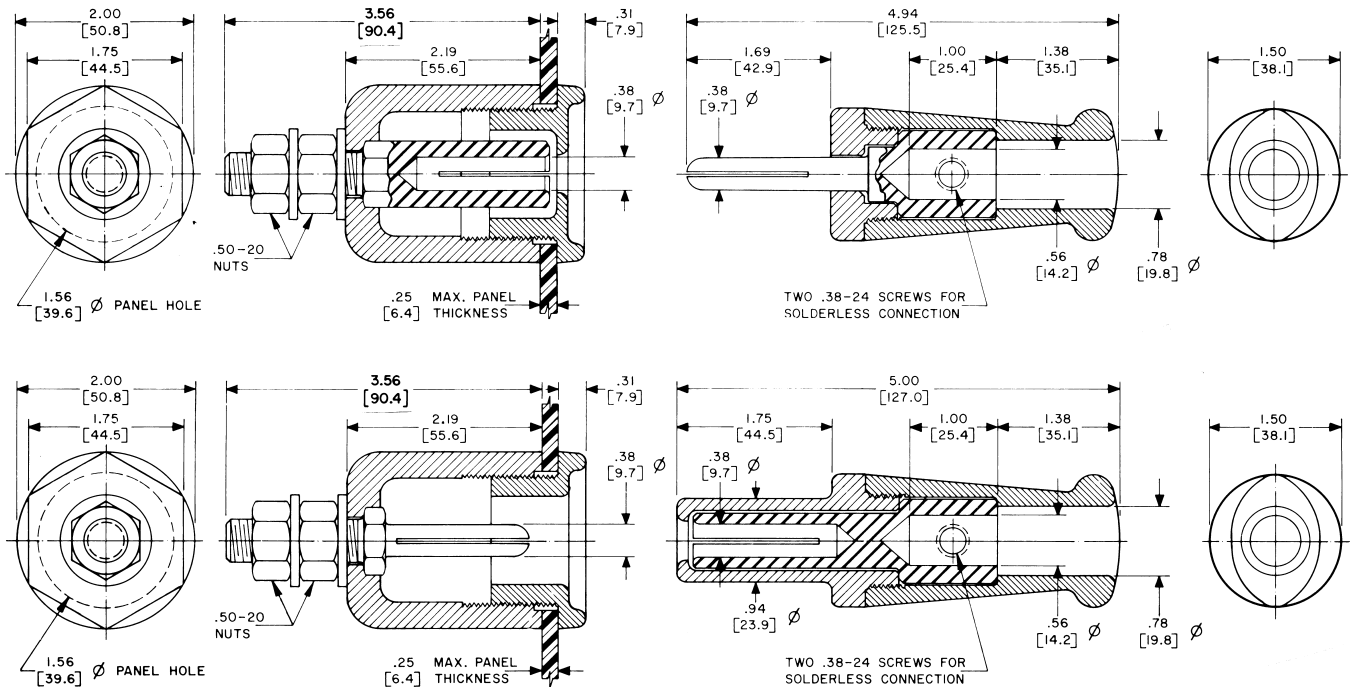


PS250GR

RP250GR

| 250 AMPERE TYPES |                   |          |                |             |
|------------------|-------------------|----------|----------------|-------------|
| COLOR            | SOCKET RECEPTACLE | PIN PLUG | PIN RECEPTACLE | SOCKET PLUG |
| BLACK            | RS250GB           | PP250GB  | RP250GB        | PS250GB     |
| YELLOW           | RS250GY           | PP250GY  | RP250GY        | PS250GY     |
| RED              | RS250GR           | PP250GR  | RP250GR        | PS250GR     |
| BLUE             | RS250GBL          | PP250GBL | RP250GBL       | PS250GBL    |
| GREEN            | RS250GGN          | PP250GGN | RP250GGN       | PS250GGN    |
| WHITE            | RS250GWT          | PP250GWT | RP250GWT       | PS250GWT    |

### 250 AMPERE TYPES OUTLINES



# Other Voltage Control Products

## STABILINE® Power Protection Products

STABILINE® Power Protection Products include cabinet and rack mount WHR Series Voltage Regulators with ratings to 1680 kVA, SW and SPW Series Uninterruptible Power Supplies that regulate voltage and provide battery backup in event of power failure, PPC Series Power Conditioners to protect from power sags, spikes and surges.



## POWERSTAT® Variable Transformers

The most recognized brand in the technology, the POWERSTAT® Variable Transformer line includes 31 series in either single or three phase 120, 240 or 480 V types in ratings from 0.13 to 365 kVA. They are available in manual and motor driven, portable with and without meters, open and enclosed models. Epoxy-coated POWERKOTE® Coils give 20% average higher current ratings, greater overload capacity.

## LUXTROL® Light Controls

LUXTROL® Light Controls are available for the control of incandescent lighting. Types include

wallbox style manual WBD Series in ratings to 1800 watts and manual and motor driven 2000 and 5000 watt D series.



## Distribution Coast-to-Coast and International

Superior Electric products are available worldwide through an extensive authorized distributor network. These distributors offer literature, technical assistance and a wide range of models off the shelf for fastest possible delivery and service.

In addition, Superior Electric sales representatives are available to provide prompt attention to customer needs. Call or fax for ordering and application information or for the name and address of the nearest authorized distributor.

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