

PERMAWELD

EXOTHERMIC WELDING SYSTEM

E-186382



Listed
Exothermic Welding
Connection System
17B-J



WT



BX



WP



RA



PK



SVED



GBT



SHEA



GST



GVE



PY



GEE



GEP



WX



BE



GBN



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99 F. Manalo St., Cubao, Quezon City
Tel. Nos.: (632) 723-3258, 723-1397, 723-1418
Fax No.: 723-2359 • E-mail: info@arizonamktg.com

**100%
Connections**

Introduction..... 3
 Advantages..... 4
 Specifications..... 4
 Key to Symbols..... 4
 How to make a Permaweld Connection..... 5
 Requirements before the Process..... 6
 Permaweld Tools and Accessories..... 6, 7
 Permaweld Connection Selector Chart..... 8, 9
Connections
 Wire to Wire 10
 Wire to Ground Rod..... 13
 Busbar/ Strap to Busbar..... 17
 Ground Rod to Ground Rod..... 18
 Ground Rod to Busbar/ Strap..... 18
 Wire to Plate..... 20
 Wire to Pipe..... 22
 Wire to Rebar..... 24
 Wire to Busbar..... 26
 Wire to Rail..... 27
 Cathode Protection..... 29
 Ground Plates..... 29
 Terminal Lugs..... 28
 Various Configurations..... 30
 Cross Reference Table..... 31

INDEX BY MOLD TYPES

Mold Type	Page
AG-201	29
AG-401	29
BE	17
BEH	17
BS	17
BS	17
BT	17
BTV	17
CJP	29
CSHEA	29
CSHTA	29
CSVES	29
CWE	29
CWL	29
ERB	27
ERT	27

Mold Type	Page
ERW	27
GBN	18
GBT	18
GEE	13
GEP	15
GET	14
GEY	15
GST	14
GVE	18
KS	28
KZ	28
PK	26
PT	26
PY	26
RHEH	24
RHXH	24

Mold Type	Page
RVXH	24
SHEA	20
SHEA-D	22
SHEB	20
SHEB-D	22
SHTA	20
SHTA-D	22
SHTB	20
SHTB-D	22
SP	11
SVED	20
SVED-D	23
SVEH	21
SVEH-D	23
SVES	20
SVES-D	22

Mold Type	Page
SVEU	21
SVEU-D	23
SVTHA	21
SVTHA-D	23
SVTHB	21
SVTHB-D	23
SVTVA	21
SVTVA-D	23
SVTVB	21
SVTVB-D	23
WE	10
WF	12
WL	12
WT	10
WX	11
WXL	11

PERMAWELD EXOTHERMIC PROCESS

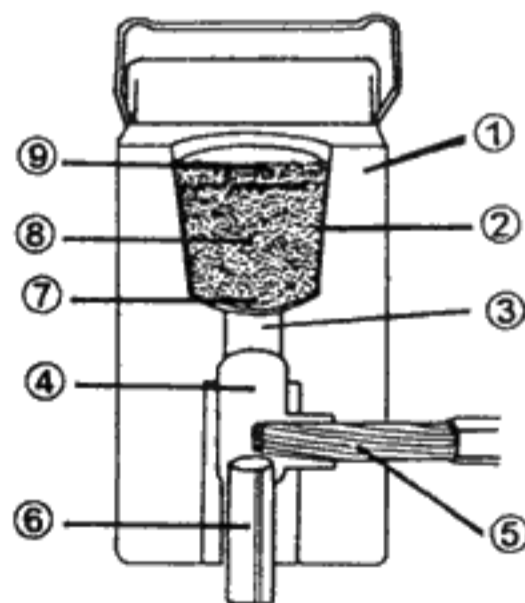
The process of exothermic welding is a method of making electrical connections of copper to copper or copper to steel in which no outside source of heat or power is required.

In this process, granular metallic particles of powdered copper oxide and aluminum are placed into a graphite mold (1) with a crucible (2), tap hole (3) and a weld cavity (4). The conductors (5) and (6) to be joined, are located in the weld cavity as shown, and the mold is closed. At the bottom of the crucible, a steel disc (7) is used to retain the weld powder (8) and starting powder (9) which are poured on top. The reduction of these particles (exothermic reaction) creates high heat in excess of 1400 degrees Celcius, and produces molten copper. The molten copper flows into the weld cavity filling any available space and complete the weld. The weld then cools and solidifies. The mold is removed and made ready of the next weld. The entire process takes only 20 seconds to complete, the total amount of heat applied to conductors is considerable less than those employed in brazing or soldering. **This is an important consideration when welding to insulated cable or thin wall pipe.**

Exothermically welded connections produce a joint (or connection) superior in performance to any known mechanical or pressure type surface to surface contact conenctor. By virtue of this molecular bond, exothermically welded connection will never loosen nor increase in resistance over the lifetime of the installation.

Exothermic Welding is also applied to materials other than copper, some of these are listed below :

- Bronze
- Monel
- Brass
- Niobium
- Cast Iron
- Pure Iron
- Steel Rail
- Columbium
- Common Steel
- Copper Cald Steel
- Silicon Bronze
- Satinless Steel
- Wrought Iron
- Galvanized & Bethanized Steel



ADVANTAGES OF PERMAWELD EXOTHERMIC WELDING

1. Current Carrying Capacity is equal or greater than that of the conductor.
2. Pemanent molecular bond that will not age, loosened or corrode.
3. Will withstand repeated faults and is not affected by high current surge.
4. Low labor cost and no skills required.
5. Portable and no external heat or power required.

SPECIFICATIONS OF PERMAWELD

As recommended by IEC and IEEE regulations, all grounding system connections shall be made by exothermic (PermaWeld) weld. Connections should include, but not limited to, all cable to cable splices; all cable to ground rods; ground rod splices; cable to steel and cast iron and cable lugs.

KEY TO SYMBOLS

The following symbols are used throughtout this catalog :

A	B	MOLD	S	W/M
50 mm ²	38 mm ²	WT-50/38	3	45



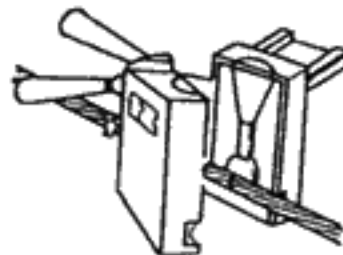
Conductor A	Conductor B	Mold Part No.	Mold Size Key	Weld Metal No. CP#: for Cathode Protection B#: for Rail Connections
-------------	-------------	---------------	---------------	---

Others:

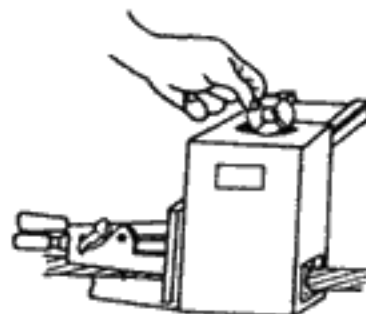
- S - Sealing Material
- D - Outside diameter of Pipe in mm.
- L/R - Specify Cable turn Left or Right

HOW TO MAKE A PERMAWELD CONNECTION

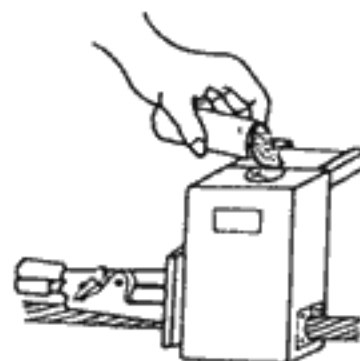
- ◆ Dry and clean the mold and the conductor.
- ◆ Prepare the mold (if new) by pre-heating it with a blow torch or making a test joint.
- ◆ Place cable ends in the mold.



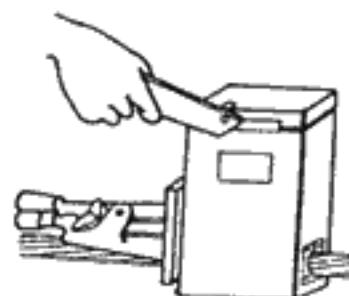
- ◆ Close the handles to lock the mold.
- ◆ Place 1 retaining disc in the bottom of mold crucible.



- ◆ Pour weld metal into the crucible.
- ◆ Do not empty the cartridge completely, save the starting powder located at the bottom of the cartridge for the next step.
- ◆ Tap gently the cartridge and sprinkle starting powder over the weld metal, and onto the lip of the mold.



- ◆ Close the cover and ignite with the flint gun from the side, firing sparks unto the starting powder.



- ◆ Open the mold after the process. Remove slag from the mold and clean it with a brush for next connection.



SAFETY FIRST - IN ALL PERMAWELD PROCESSES, IT IS RECOMMENDED THAT SAFETY GLASSES AND GLOVES BE USED.

HOW TO MAKE A PERMAWELD CONNECTION

REQUIREMENTS BEFORE THE PROCESS

To be able to complete the process, be sure to have the following:

A. Materials

1. Molds - molds listed in this catalog are the most commonly used in the industry. Should you need other sizes not listed in this catalog, we can produce the mold for your requirement. The average life of a mold is 50 connections.
2. Properly sized Permaweld Weld Metal - listed beside the mold catalog number and on the mold itself.
3. Other materials that may be needed such as lugs, plates, etc.

B. Tools

1. Proper Mold Clamp as based on the Mold size Key.
2. Cable cleaning Brush.
3. Rasp for cleaning steel or cast iron surfaces.
4. Flint Ignitor is needed with each handle clamp.
5. Strike -rod is used for burying the ground rod easily. This also prevents the top of the rod from mushrooming or flaring out.

Model SK-210 for 1" Ground Rod
Model SK-234A for 3/4" (18 mm) Ground Rod
Model SK-234B for 3/4" (20 mm) Ground Rod
Model SK-258 for 5/8" Ground Rod
Model SK-205 for 1/2" Ground Rod

PERMAWELD TOOLS AND ACCESSORIES

1. **WELD POWDERS** - Permaweld weld powders are contained in plastic cartridges. These cartridges are packed in boxes of 10 or 20 depending on their size. In the boxes are contained the retaining discs which are separately packed in a bag. Starting powder can be found at the bottom of each weld powder cartridge, they are released after the weld metal is poured and tapping the cartridge gently while inverted. Permaweld weld powder sizes are based on the nominal weight in grams. Different joints require corresponding power sizes. They are suitable for making connections from copper to copper and from copper to steel.

When a particular size cartridge is not available, a combination of smaller cartridges or a portion of a larger cartridge can be used to arrive at the desired gram weight. Care should be taken into consideration when mixing smaller cartridges.

The starting powder must not be allowed to mix with the weld metal.

2. **Molds** - Permaweld graphite molds are classified in different sizes from size 1 and upwards. They can have a useful life of more than 50 connections if used with care. In the catalog, you will find the weld powder size that must be used as well as the conductor sizes they are intended for use.

3. Handle Clamps - Handle Clamps are used to handle as well as clamping the mold halves together. They may also be used to clamp the mold to the surface to which a connection is to be made. (For Model Numbers, please see below)

4. Flint Ignitor - required to start the reaction. Model Number I-150

5. Standard Tools

Slag Removal Spade - use for removing slag from the mold crucible after the process. Model Number T-100

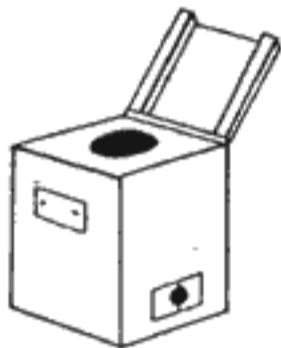
Brush - used for final mold cleaning. Model Number B-10

Cable Brush - used for cleaning cables and rods.

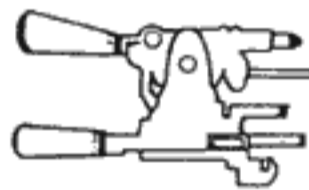
Flat Metal Brush - for cleaning flat surfaces and conductors.

Mold Size vs. Handle Clamp

Mold Size Key	Handle Clamp	Mold Size Key	Handle Clamp	Mold Size Key	Handle Clamp
1	Included	5	CL-3	9	CL-3
2	CL-2	6	CL-4	10	CL-3
3	CL-3	7	CL-3	11	CL-4
4	CL-4	8	CL-4		



MOLD



HANDLE CLAMP



WELDMETAL



IGNITOR



SPADE



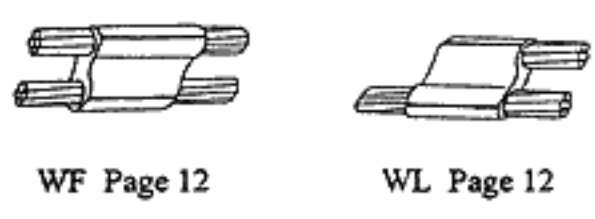
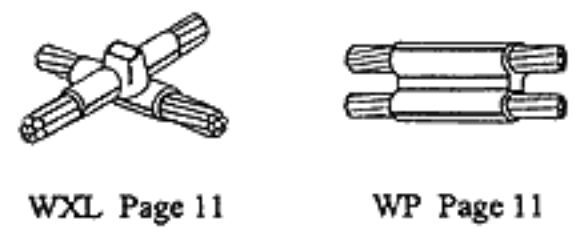
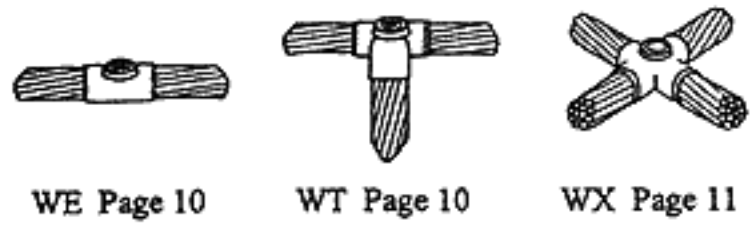
BRUSH



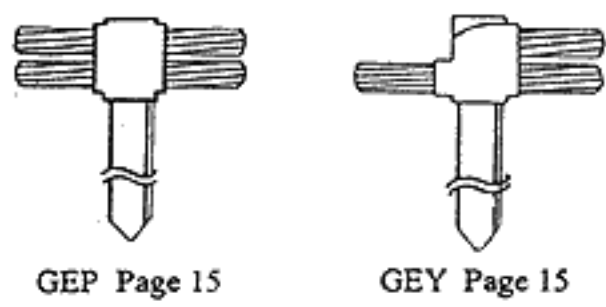
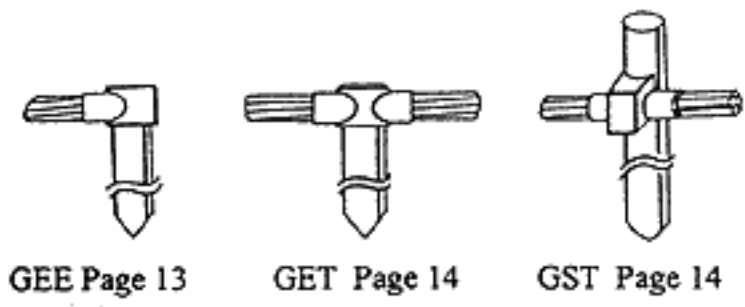
STRIKE ROD

ORDERING INFORMATION

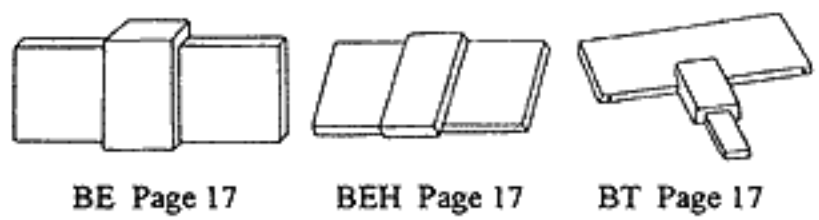
WIRE TO WIRE



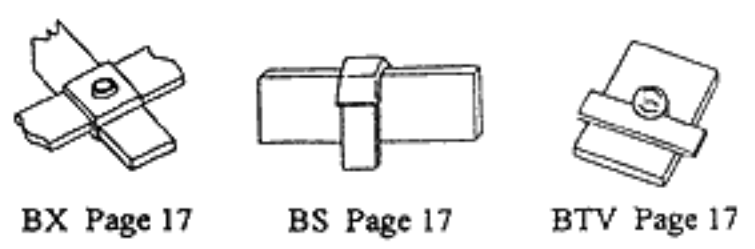
WIRE TO GROUND ROD



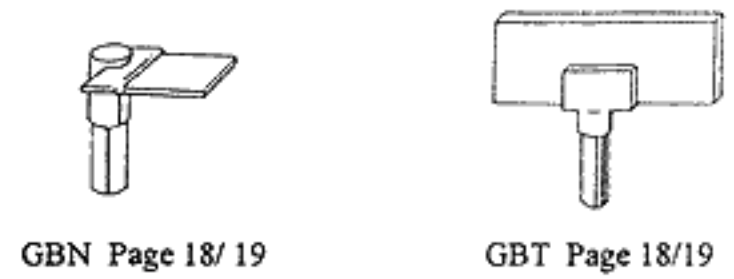
BUSBAR/ STRAP TO BUSBAR



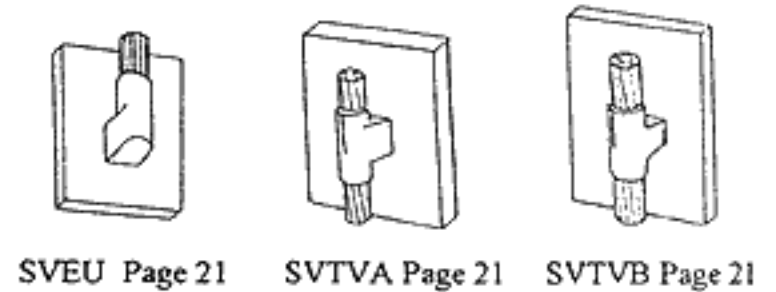
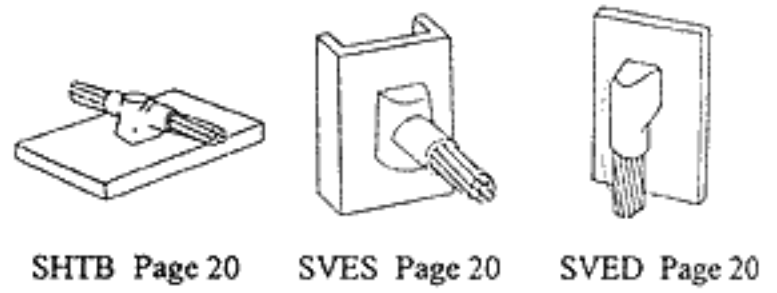
BUSBAR/ STRAP TO BUSBAR (Continued)



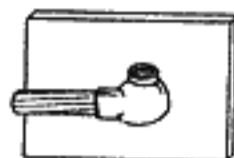
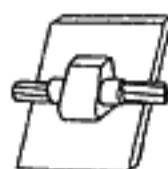
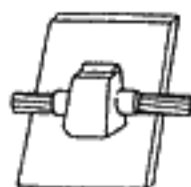
GROUND ROD TO GROUND ROD OR TO BUSBAR/ STRAP



WIRE TO STEEL PLATE



WIRE TO STEEL PLATE (Continued)

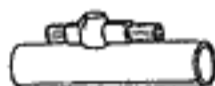
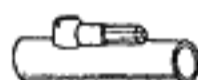


SVTHA Page 21

SVTHB Page 21

SVEH Page 21

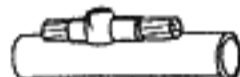
WIRE TO STEEL PIPE



SHEA-D Page 22

SHEB-D Page 22

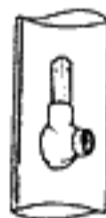
SHTA-D Page 22



SHTB-D Page 22

SVES-D Page 22

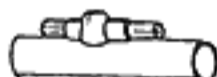
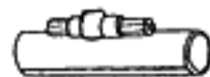
SVED-D Page 22



SVEU-D Page 23

SVTVA-D Page 23

SVTVB-D Page 23



SVTHA-D Page 23

SVTHB-D Page 23

SVEH-D Page 23

WIRE TO REBAR

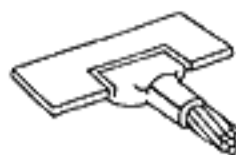
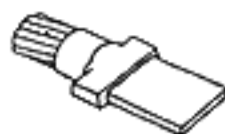


RHEH Page 24/25

RHXH Page 24/25

RVXH Page 24/25

WIRE TO BUSBAR

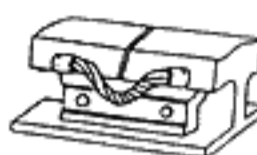
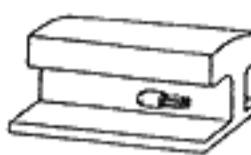
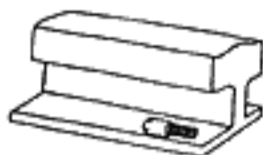


PK Page 26

PT Page 26

PY Page 26

WIRE TO RAIL

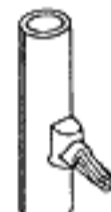


ERB Page 27

ERW Page 27

ERT Page 27

CATHODE PROTECTION



CSHEA Page 29

CSHTA Page 29

CSVES Page 29

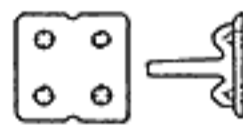
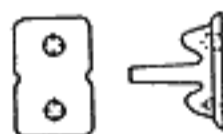


CWL Page 29

CJP Page 29

CWE Page 29

GROUND PLATES



AG-201 Page 29

AG-401 Page 29

TERMINAL LUGS

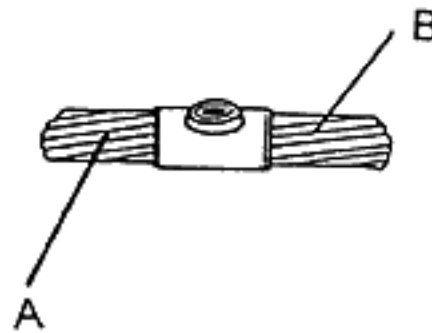


Type KZ (Offset) P. 28

Type KS (Straight) P. 28

TYPE WE

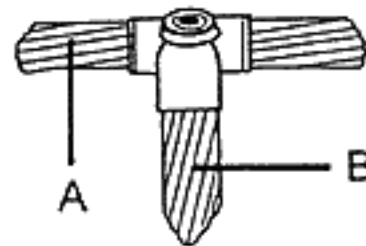
Horizontal End to End (Splice)



A mm ²	B mm ²	Mold Cat. No.	S	W/M
5.5	5.5	WE- 5.5/5.5	2	15
8.0	8.0	WE- 8/8	2	15
14	14	WE- 14/14	2	25
22	22	WE- 22/22	2	25
30	30	WE- 30/30	2	32
38	38	WE- 38/38	2	32
50	50	WE- 50/50	2	45
60	60	WE- 60/60	2	45
80	80	WE- 80/80	3	65
100	100	WE-100/100	3	90

A mm ²	B mm ²	Mold Cat. No.	S	W/M
125	125	WE- 125/125	3	115
150	150	WE- 150/150	3	115
200	200	WE- 200/200	3	150
250	250	WE- 250/250	3	200
325	325	WE- 325/325	3	250
400	400	WE- 400/400	3	2-150
500	500	WE- 500/500	4	2-200
600	600	WE- 600/600	4	2-200
725	725	WE- 725/725	4	2-250
850	850	WE- 850/850	4	3-250

TYPE WT
HORIZONTAL
TAP TO
HORIZONTAL
RUN



A mm ²	B mm ²	Mold Cat. No.	S	W/M
22	22	WT- 22/22	3	32
30	30	WT- 30/30	3	45
	22	WT- 30/22	3	45
38	38	WT- 38/38	3	45
	30	WT- 38/30	3	45
	22	WT- 38/22	3	45
50	50	WT- 50/50	3	65
	38	WT- 50/38	3	45
	30	WT- 50/30	3	45
	22	WT- 50/22	3	45
60	60	WT- 60/60	3	90
	50	WT- 60/50	3	65
	38	WT- 60/38	3	45
	30	WT- 60/30	3	45
	22	WT- 60/22	3	45
80	80	WT- 80/80	3	115
	60	WT- 80/60	3	90
	50	WT- 80/50	3	90
	38	WT- 80/38	3	65
	30	WT- 80/30	3	65
	22	WT- 80/22	3	65
100	100	WT- 100/100	3	150
	80	WT- 100/80	3	115
	60	WT- 100/60	3	90
	50	WT- 100/50	3	90
	38	WT- 100/38	3	90
30	WT- 100/30	3	90	

A mm ²	B mm ²	Mold Cat. No.	S	W/M
100	22	WT- 100/22	3	90
125	125	WT- 125/125	3	150
	100	WT- 125/100	3	150
	80	WT- 125/80	3	150
	60	WT- 125/60	3	90
	50	WT- 125/50	3	90
	38	WT- 125/38	3	90
	30	WT- 125/30	3	90
150	150	WT- 150/150	3	200
	125	WT- 150/125	3	150
	100	WT- 150/100	3	150
	80	WT- 150/80	3	150
	60	WT- 150/60	3	90
	50	WT- 150/50	3	90
	38	WT- 150/38	3	90
	30	WT- 150/30	3	90
200	200	WT- 200/200	3	250
	150	WT- 200/150	3	200
	125	WT- 200/125	3	200
	100	WT- 200/100	3	150
	80	WT- 200/80	3	150
	60	WT- 200/60	3	90
	50	WT- 200/50	3	90
	38	WT- 200/38	3	90
	30	WT- 200/30	3	90
	250	WT- 250/250	3	2-150
200	WT- 250/200	3	250	
150	WT- 250/150	3	200	
125	WT- 250/125	3	200	

A mm ²	B mm ²	Mold Cat. No.	S	W/M
250	100	WT- 250/100	3	150
	80	WT- 250/80	3	150
	60	WT- 250/60	3	90
	50	WT- 250/50	3	90
	38	WT- 250/38	3	90
325	325	WT- 325/325	3	2-200
	250	WT- 325/250	3	2-150
	200	WT- 325/200	3	250
	150	WT- 325/150	3	200
	125	WT- 325/125	3	200
	100	WT- 325/100	3	150
	80	WT- 325/80	3	150
	60	WT- 325/60	3	115
400	400	WT- 400/400	4	2-250
	325	WT- 400/325	4	2-200
	250	WT- 400/250	3	2-150
	200	WT- 400/200	3	250
	150	WT- 400/150	3	200
	125	WT- 400/125	3	200
	100	WT- 400/100	3	150
	80	WT- 400/80	3	150
	60	WT- 400/60	3	150
	50	WT- 400/50	3	150
500	500	WT- 500/500	4	3-200
	400	WT- 500/400	4	2-250
	325	WT- 500/325	4	2-200

TYPE WX

Horizontal to
Horizontal Wire
Cross

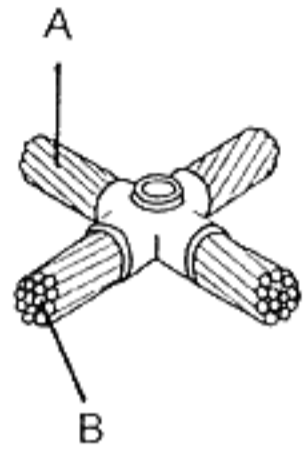
TYPE WXL

Horizontal to
Horizontal Wire
Cross, Lapped
and not Cut

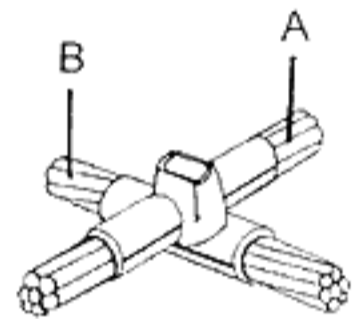
TYPE WP

Two Wires
Parallel and on
Vertical Plane.

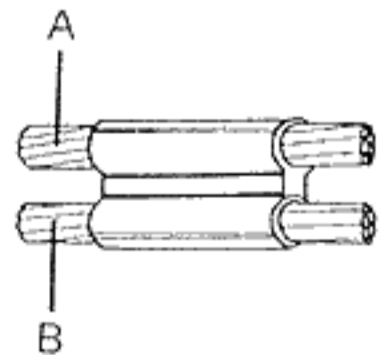
A mm ²	B mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
22	22	WX-22/22	3	45	WXL-22/22	3	65	WP-22/22	2	45
30	30	WX-30/30	3	65	WXL-30/30	3	90	WP-30/30	2	45
	22	WX-30/22	3	65	WXL-30/22	3	65	WP-30/22	2	45
38	38	WX-38/38	3	65	WXL-38/38	3	90	WP-38/38	3	65
	30	WX-38/30	3	65	WXL-38/30	3	90	WP-38/30	3	65
50	50	WX-50/50	3	90	WXL-50/50	10	150	WP-50/50	3	90
	38	WX-50/38	3	90	WXL-50/38	10	150	WP-50/38	3	90
	30	WX-50/30	3	90	WXL-50/30	10	115	WP-50/30	3	65
60	60	WX-60/60	3	115	WXL-60/60	10	150	WP-60/60	3	115
	50	WX-60/50	3	115	WXL-60/50	10	150	WP-60/50	3	115
	38	WX-60/38	3	90	WXL-60/38	10	150	WP-60/38	3	90
80	80	WX-80/80	3	150	WXL-80/80	10	200	WP-80/80	3	150
	60	WX-80/60	3	150	WXL-80/60	10	150	WP-80/60	3	150
	50	WX-80/50	3	115	WXL-80/50	10	150	WP-80/50	3	115
	38	WX-80/38	3	115	WXL-80/38	10	150	WP-80/38	3	115
100	100	WX-100/100	3	200	WXL-100/100	10	250	WP-100/100	3	200
	80	WX-100/80	3	200	WXL-100/80	10	250	WP-100/80	3	200
	60	WX-100/60	3	150	WXL-100/60	10	200	WP-100/60	3	150
	50	WX-100/50	3	150	WXL-100/50	10	200	WP-100/50	3	150
	38	WX-100/38	3	115	WXL-100/38	10	150	WP-100/38	3	150
125	125	WX-125/125	3	200	WXL-125/125	10	2-150	WP-125/125	3	250
	100	WX-125/100	3	200	WXL-125/100	10	2-150	WP-125/100	3	200
	80	WX-125/80	3	200	WXL-125/80	10	250	WP-125/80	3	200
	60	WX-125/60	3	150	WXL-125/60	10	250	WP-125/60	3	150
	50	WX-125/50	3	150	WXL-125/50	10	200	WP-125/50	3	150
	38	WX-125/38	3	115	WXL-125/38	10	200	WP-125/38	3	150
150	150	WX-150/150	3	250	WXL-150/150	11	2-200	WP-150/150	4	2-150
	125	WX-150/125	3	250	WXL-150/125	11	2-200	WP-150/125	3	250
	100	WX-150/100	3	200	WXL-150/100	10	2-150	WP-150/100	3	200
	80	WX-150/80	3	200	WXL-150/80	10	2-150	WP-150/80	3	200
	60	WX-150/60	3	150	WXL-150/60	10	250	WP-150/60	3	150
	50	WX-150/50	3	150	WXL-150/50	10	200	WP-150/50	3	150
	38	WX-150/38	3	115	WXL-150/38	10	200	WP-150/38	3	150
200	200	WX-200/200	4	2-150	WXL-200/200	11	3-200	WP-200/200	4	2-150
	150	WX-200/150	4	2-150	WXL-200/150	11	3-200	WP-200/150	4	2-150
	125	WX-200/125	4	2-150	WXL-200/125	11	2-250	WP-200/125	3	250
	100	WX-200/100	3	250	WXL-200/100	11	2-250	WP-200/100	3	200
	80	WX-200/80	3	250	WXL-200/80	11	2-200	WP-200/80	3	200
	60	WX-200/60	3	200	WXL-200/60	10	2-150	WP-200/60	3	150
	50	WX-200/50	3	200	WXL-200/50	10	2-150	WP-200/50	3	150
	38	WX-200/38	3	150	WXL-200/38	10	250	WP-200/38	3	150
250	250	WX-250/250	4	2-250	WXL-250/250	11	3-250	WP-250/250	4	2-200
	200	WX-250/200	4	2-250	WXL-250/200	11	3-250	WP-250/200	4	2-150
	150	WX-250/150	4	2-200	WXL-250/150	11	3-200	WP-250/150	4	2-150
	125	WX-250/125	4	2-150	WXL-250/125	11	2-250	WP-250/125	3	250
	100	WX-250/100	4	2-150	WXL-250/100	11	2-250	WP-250/100	3	200
	80	WX-250/80	4	2-150	WXL-250/80	11	2-200	WP-250/80	3	200
	60	WX-250/60	3	250	WXL-250/60	10	2-150	WP-250/60	3	150
	50	WX-250/50	3	250	WXL-250/50	10	2-150	WP-250/50	3	150
	38	WX-250/38	3	200	WXL-250/38	10	250	WP-250/38	3	150



TYPE WX

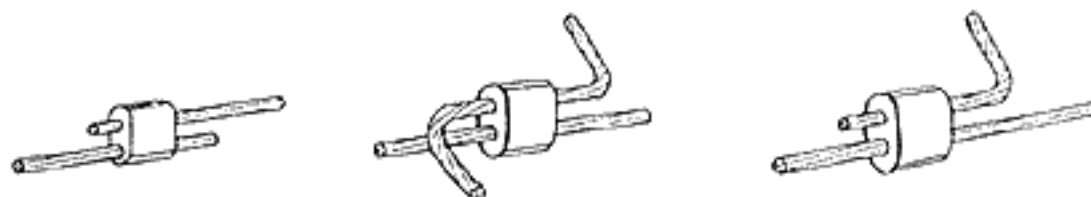


TYPE WXL



TYPE WP

WP VARIATIONS

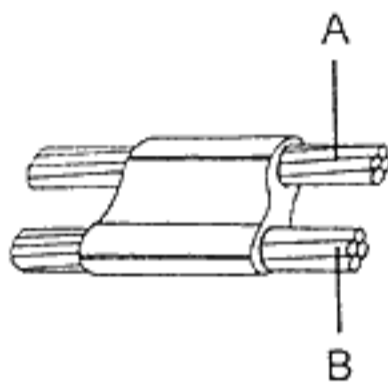


TYPE WF

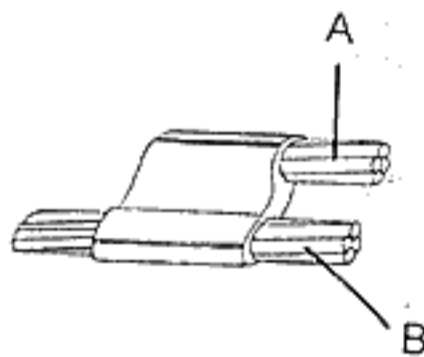
Two wires
Parallel Both on
Horizontal Plane

TYPE WL

Wires Parallel on
Vertical Plane,
One wire is Tap
placed on top.



TYPE WF

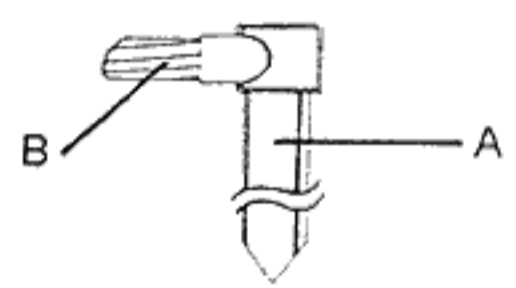


TYPE WL

A mm ²	B mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
22	22	WF-22/22	3	45	WL-22/22	3	45
30	30	WF-30/30	3	45	WL-30/30	3	45
	22	WF-30/22	3	45	WL-30/22	3	45
38	38	WF-38/38	3	65	WL-38/38	3	45
	30	WF-38/30	3	65	WL-38/30	3	45
50	50	WF-50/50	3	90	WL-50/50	3	90
	38	WF-50/38	3	90	WL-50/38	3	65
	30	WF-50/30	3	90	WL-50/30	3	65
60	60	WF-60/60	3	115	WL-60/60	3	115
	50	WF-60/50	3	115	WL-60/50	3	115
	38	WF-60/38	3	90	WL-60/38	3	90
80	80	WF-80/80	3	115	WL-80/80	3	115
	60	WF-80/60	3	115	WL-80/60	3	115
	50	WF-80/50	3	115	WL-80/50	3	115
	38	WF-80/38	3	90	WL-80/38	3	90
100	100	WF-100/100	3	150	WL-100/100	3	150
	80	WF-100/80	3	150	WL-100/80	3	150
	60	WF-100/60	3	150	WL-100/60	3	115
	50	WF-100/50	3	150	WL-100/50	3	115
	38	WF-100/38	3	115	WL-100/38	3	115
125	125	WF-125/125	3	200	WL-125/125	3	200
	100	WF-125/100	3	200	WL-125/100	3	200
	80	WF-125/80	3	200	WL-125/80	3	150
	60	WF-125/60	3	150	WL-125/60	3	115
	50	WF-125/50	3	150	WL-125/50	3	115
	38	WF-125/38	3	115	WL-125/38	3	115
150	150	WF-150/150	4	2-150	WL-150/150	4	250
	125	WF-150/125	4	250	WL-150/125	3	200
	100	WF-150/100	3	200	WL-150/100	3	150
	80	WF-150/80	3	200	WL-150/80	3	150
	60	WF-150/60	3	150	WL-150/60	3	115
	50	WF-150/50	3	150	WL-150/50	3	115
	38	WF-150/38	3	150	WL-150/38	3	115
200	200	WF-200/200	4	2-150	WL-200/200	4	2-150
	150	WF-200/150	4	2-150	WL-200/150	4	250
	125	WF-200/125	4	250	WL-200/125	4	250
	100	WF-200/100	3	200	WL-200/100	3	150
	80	WF-200/80	3	200	WL-200/80	3	150
	60	WF-200/60	3	150	WL-200/60	3	115
	50	WF-200/50	3	150	WL-200/50	3	115
	38	WF-200/38	3	150	WL-200/38	3	115
250	250	WF-250/250	4	2-200	WL-250/250	4	2-150
	200	WF-250/200	4	2-150	WL-250/200	4	2-150
	150	WF-250/150	4	2-150	WL-250/150	4	250
	125	WF-250/125	4	250	WL-250/125	4	250
	100	WF-250/100	3	200	WL-250/100	4	250
	80	WF-250/80	3	200	WL-250/80	3	150
	60	WF-250/60	3	150	WL-250/60	3	150
	50	WF-250/50	3	150	WL-250/50	3	150
	38	WF-250/38	3	150	WL-250/38	3	150

TYPE GEE

Ground Rod in mm	Wire in mm ²	Mold Cat. No.	S	W/M
1/2 INCH (13 mm) 12-13 MM	22	GEE- 13/22	3	65
	30	GEE- 13/30	3	65
	38	GEE- 13/38	3	65
	50	GEE- 13/50	3	90
	60	GEE- 13/60	3	90
	80	GEE- 13/80	3	90
	100	GEE- 13/100	3	90
	125	GEE- 13/125	3	90
	150	GEE- 13/150	3	115
	5/8" INCH (16 mm) 15-16 MM	22	GEE- 16/22	3
30		GEE- 16/30	3	65
38		GEE- 16/38	3	65
50		GEE- 16/50	3	90
60		GEE- 16/60	3	90
80		GEE- 16/80	3	90
100		GEE- 16/100	3	90
125		GEE- 16/125	3	90
150		GEE- 16/150	3	115
200		GEE- 16/200	3	150
250	GEE- 16/250	3	150	
3/4" INCH (18 mm) 17-18 MM	22	GEE- 18/22	3	90
	30	GEE- 18/30	3	90
	38	GEE- 18/38	3	90
	50	GEE- 18/50	3	90
	60	GEE- 18/60	3	90
	80	GEE- 18/80	3	90
	100	GEE- 18/100	3	90
	125	GEE- 18/125	3	90
	150	GEE- 18/150	3	115
	200	GEE- 18/200	3	150
	250	GEE- 18/250	3	200
	325	GEE- 18/325	3	200
	400	GEE- 18/400	3	250
500	GEE- 18/500	3	300	
3/4 INCH (20 mm) 19-20 MM	22	GEE- 20/22	3	90
	30	GEE- 20/30	3	90
	38	GEE- 20/38	3	90
	50	GEE- 20/50	3	90
	60	GEE- 20/60	3	90
	80	GEE- 20/80	3	90
	100	GEE- 20/100	3	90
	125	GEE- 20/125	3	90
	150	GEE- 20/150	3	115
	200	GEE- 20/200	3	150
	250	GEE- 20/250	3	200
	325	GEE- 20/325	3	200
	400	GEE- 20/400	3	250
500	GEE- 20/500	3	300	
1" INCH (25mm) 24-25 MM	22	GEE- 25/22	3	150
	30	GEE- 25/30	3	150
	38	GEE- 25/38	3	150
	50	GEE- 25/50	3	150
	60	GEE- 25/60	3	150
	80	GEE- 25/80	3	150
	100	GEE- 25/100	3	150
	125	GEE- 25/125	3	150
	150	GEE- 25/150	3	200
	200	GEE- 25/200	3	200
	250	GEE- 25/250	3	200
	325	GEE- 25/325	3	250
400	GEE- 25/400	3	250	
500	GEE- 25/500	4	2-150	

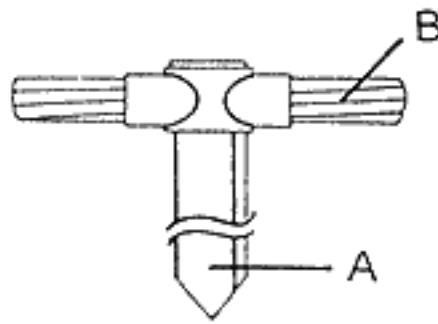


TYPE GEE
Horizontal Cable Tap to Ground Rod

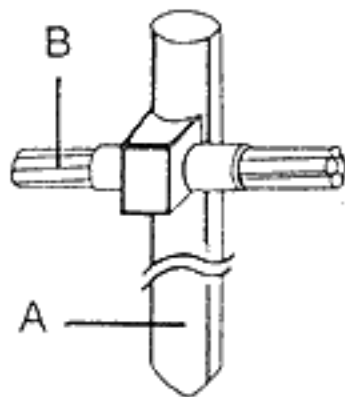
WIRE TO GROUND ROD CONNECTIONS

TYPE GET

TYPE GST



TYPE GET
Horizontal Thru
Cable to Top of
Ground Rod
(Tee)



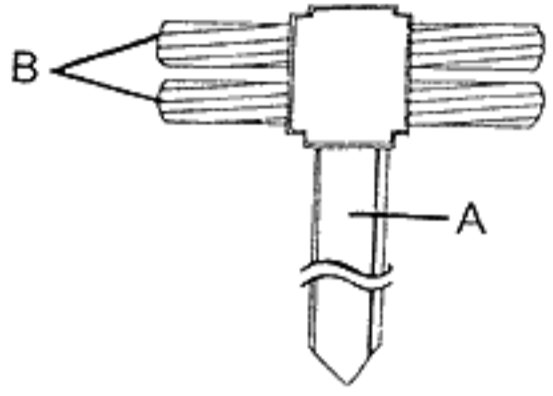
TYPE GST
Horizontal Thru
Cable to side of
Ground Rod

Ground Rod in mm	Wire in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
1/2 INCH (13 mm) 12-13 MM	22	GET- 13/22	3	90	GST- 13/22	7	90
	30	GET- 13/30	3	90	GST- 13/30	7	90
	38	GET- 13/38	3	90	GST- 13/38	7	90
	50	GET- 13/50	3	90	GST- 13/50	7	115
	60	GET- 13/60	3	90	GST- 13/60	7	115
	80	GET- 13/80	3	115	GST- 13/80	7	150
	100	GET- 13/100	3	115	GST- 13/100	7	150
	125	GET- 13/125	3	150	GST- 13/125	7	150
	150	GET- 13/150	3	200	GST- 13/150	7	200
	5/8" INCH (16 mm) 15-16 MM	22	GET- 16/22	3	90	GST- 16/22	7
30		GET- 16/30	3	90	GST- 16/30	7	90
38		GET- 16/38	3	90	GST- 16/38	7	90
50		GET- 16/50	3	90	GST- 16/50	7	115
60		GET- 16/60	3	115	GST- 16/60	7	115
80		GET- 16/80	3	115	GST- 16/80	7	150
100		GET- 16/100	3	115	GST- 16/100	7	150
125		GET- 16/125	3	150	GST- 16/125	7	150
150		GET- 16/150	3	200	GST- 16/150	7	200
200		GET- 16/200	3	250	GST- 16/200	7	250
3/4" INCH (18 mm) 17-18 MM	22	GET- 18/22	3	90	GST- 18/22	7	90
	30	GET- 18/30	3	90	GST- 18/30	7	90
	38	GET- 18/38	3	90	GST- 18/38	7	90
	50	GET- 18/50	3	115	GST- 18/50	7	115
	60	GET- 18/60	3	115	GST- 18/60	7	115
	80	GET- 18/80	3	115	GST- 18/80	7	150
	100	GET- 18/100	3	115	GST- 18/100	7	150
	125	GET- 18/125	3	150	GST- 18/125	7	200
	150	GET- 18/150	3	200	GST- 18/150	7	250
	200	GET- 18/200	3	250	GST- 18/200	8	2-200
3/4 INCH (20 mm) 19-20 MM	22	GET- 20/22	3	90	GST- 20/22	7	90
	30	GET- 20/30	3	90	GST- 20/30	7	90
	38	GET- 20/38	3	90	GST- 20/38	7	90
	50	GET- 20/50	3	115	GST- 20/50	7	115
	60	GET- 20/60	3	115	GST- 20/60	7	115
	80	GET- 20/80	3	115	GST- 20/80	7	150
	100	GET- 20/100	3	115	GST- 20/100	7	150
	125	GET- 20/125	3	150	GST- 20/125	7	200
	150	GET- 20/150	3	200	GST- 20/150	7	250
	200	GET- 20/200	3	250	GST- 20/200	8	2-200
1" INCH (25 mm) 24-25 MM	22	GET- 25/22	3	150	GST- 25/22	7	90
	30	GET- 25/30	3	150	GST- 25/30	7	90
	38	GET- 25/38	3	150	GST- 25/38	7	90
	50	GET- 25/50	3	150	GST- 25/50	7	115
	60	GET- 25/60	3	150	GST- 25/60	7	115
	80	GET- 25/80	3	150	GST- 25/80	7	150
	100	GET- 25/100	3	150	GST- 25/100	7	150
	125	GET- 25/125	3	200	GST- 25/125	7	200
	150	GET- 25/150	3	200	GST- 25/150	7	250
	200	GET- 25/200	3	250	GST- 25/200	8	2-200
250	GET- 25/250	3	250	GST- 25/250	8	2-250	
325	GET- 25/325	4	2-150	GST- 25/325	8	3-200	
400	GET- 25/400	4	2-150	GST- 25/400	8	3-200	
500	GET- 25/500	4	2-150	GST- 25/500	8	3-250	

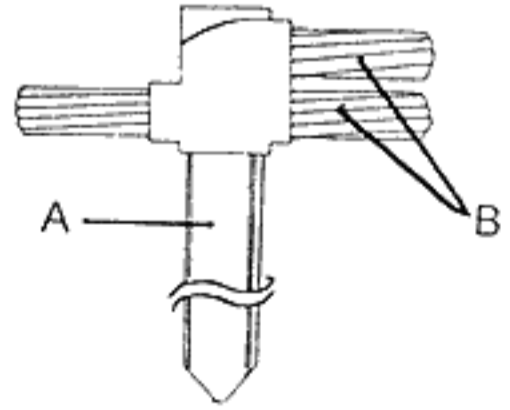
TYPE GEP

TYPE GEY

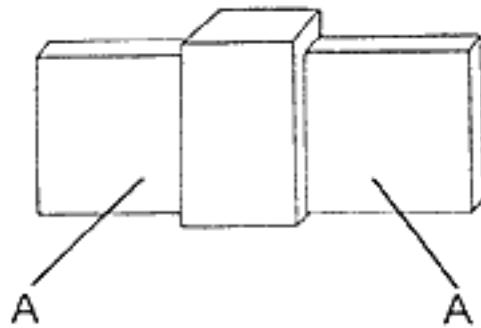
Ground Rod in mm	Wire in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
1/2 INCH (13 mm) 12-13 MM	22	GEP- 13/22	5	115	GEY- 13/22	5	90
	30	GEP- 13/30	5	115	GEY- 13/30	5	90
	38	GEP- 13/38	5	115	GEY- 13/38	5	115
	50	GEP- 13/50	5	150	GEY- 13/50	5	115
	60	GEP- 13/60	5	200	GEY- 13/60	5	150
	80	GEP- 13/80	5	250	GEY- 13/ 80	5	150
	100	GEP- 13/100	5	250	GEY- 13/100	5	200
	125	GEP- 13/125	5	2-200	GEY- 13/125	5	2-150
	150	GEP- 13/150	5	3-150	GEY- 13/150	5	2-150
	5/8" INCH (16 mm) 15-16 MM	22	GEP- 16/22	5	115	GEY- 16/22	5
30		GEP- 16/30	5	150	GEY- 16/30	5	115
38		GEP- 16/38	5	150	GEY- 16/38	5	115
50		GEP- 16/50	5	200	GEY- 16/50	5	150
60		GEP- 16/60	5	250	GEY- 16/60	5	200
80		GEP- 16/80	6	2-150	GEY- 16/80	5	200
100		GEP- 16/100	6	2-150	GEY- 16/100	5	250
125		GEP- 16/125	6	2-200	GEY- 16/125	6	2-150
150		GEP- 16/150	6	3-150	GEY- 16/150	6	2-200
200		GEP- 16/200	6	3-200	GEY- 16/200	6	2-250
250	GEP- 16/250	6	3-250	GEY- 16/250	6	3-200	
3/4" INCH (18 mm) 17-18 MM	22	GEP- 18/22	5	115	GEY- 18/22	5	90
	30	GEP- 18/30	5	150	GEY- 18/30	5	115
	38	GEP- 18/38	5	150	GEY- 18/38	5	150
	50	GEP- 18/50	5	200	GEY- 18/50	5	200
	60	GEP- 18/60	5	250	GEY- 18/60	5	200
	80	GEP- 18/80	6	2-150	GEY- 18/80	5	2-150
	100	GEP- 18/100	6	2-150	GEY- 18/100	5	2-150
	125	GEP- 18/125	6	2-200	GEY- 18/125	6	2-150
	150	GEP- 18/150	6	3-150	GEY- 18/150	6	2-200
	200	GEP- 18/200	6	3-200	GEY- 18/200	6	2-250
250	GEP- 18/250	6	3-250	GEY- 18/250	6	3-250	
325	GEP- 18/325	6	3-250	GEY- 18/325	6	3-250	
400	GEP- 18/400	6	3-250	GEY- 18/400	6	3-250	
500	GEP- 18/500	6	4-200	GEY- 18/500	6	4-200	
3/4 INCH (20 mm) 19-20 MM	22	GEP- 20/22	5	115	GEY- 20/22	5	115
	30	GEP- 20/30	5	150	GEY- 20/30	5	150
	38	GEP- 20/38	5	150	GEY- 20/38	5	150
	50	GEP- 20/50	5	200	GEY- 20/50	5	200
	60	GEP- 20/60	5	250	GEY- 20/60	5	200
	80	GEP- 20/80	6	2-150	GEY- 20/80	5	2-150
	100	GEP- 20/100	6	2-150	GEY- 20/100	5	2-150
	125	GEP- 20/125	6	2-200	GEY- 20/125	6	2-150
	150	GEP- 20/150	6	3-150	GEY- 20/150	6	2-200
	200	GEP- 20/200	6	3-200	GEY- 20/200	6	2-250
250	GEP- 20/250	6	3-250	GEY- 20/250	6	3-250	
325	GEP- 20/325	6	3-250	GEY- 20/325	6	3-250	
400	GEP- 20/400	6	3-250	GEY- 20/400	6	3-250	
500	GEP- 20/500	6	4-200	GEY- 20/500	6	4-200	
1" INCH (25 mm) 24-25 MM	22	GEP- 25/22	5	150	GEY- 25/22	5	115
	30	GEP- 25/30	5	200	GEY- 25/30	5	150
	38	GEP- 25/38	5	200	GEY- 25/38	5	150
	50	GEP- 25/50	5	250	GEY- 25/50	5	200
	60	GEP- 25/60	6	2-150	GEY- 25/60	5	200
	80	GEP- 25/80	6	2-200	GEY- 25/80	5	250
	100	GEP- 25/100	6	2-200	GEY- 25/100	6	2-150
	125	GEP- 25/125	6	2-250	GEY- 25/125	6	2-200
	150	GEP- 25/150	6	3-200	GEY- 25/150	6	3-150
	200	GEP- 25/200	6	3-250	GEY- 25/200	6	3-200
250	GEP- 25/250	6	4-250	GEY- 25/250	6	3-250	
325	GEP- 25/325	6	4-250	GEY- 25/325	6	3-250	
400	GEP- 25/400	6	4-250	GEY- 25/400	6	3-250	
500	GEP- 25/500	6	6-200	GEY- 25/500	6	4-200	



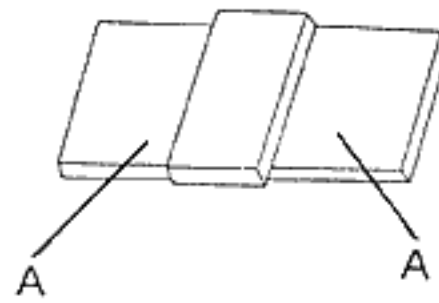
TYPE GEP
Two Wires
Parallel on
Vertical Plane,
Both on Top of



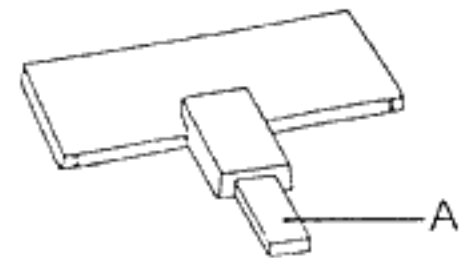
TYPE GEY
Two wires,
Parallel on
Vertical Plane
on Top of



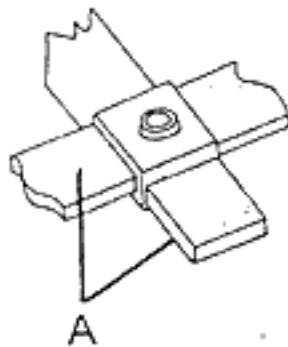
TYPE BE
Vertical Busbar
End to End



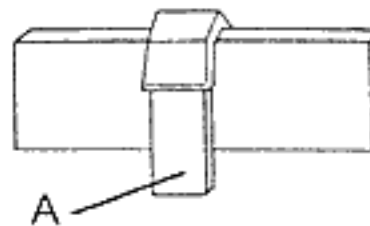
TYPE BEH
Horizontally Flat
Busbar End to
End



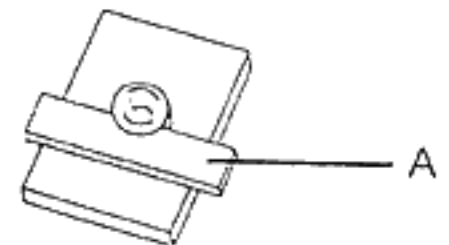
TYPE BT
Horizontal Flat
Busbar Run to
Busbar Tap



TYPE BX
Two Horizontal
& Overlapped
Flat Busbar Run



TYPE BTV
Vertical Busbar
Drop Tap To
Horizontal Run



TYPE BS
Horizontal Flat
Busbar Run to
Steel Surface

TYPE BE**TYPE BEH****TYPE BT**

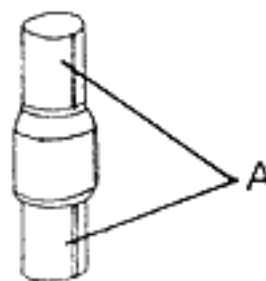
A in mm	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
2 x 20	BE-0220	3	45	BEH-0220	3	45	BT-0220	3	45
3 x 20	BE-0320	3	45	BEH-0320	3	45	BT-0320	3	45
4 x 20	BE-0420	3	45	BEH-0420	3	65	BT-0420	3	65
5 x 20	BE-0520	3	65	BEH-0520	3	90	BT-0520	3	90
2 x 25	BE-0225	3	65	BEH-0225	3	45	BT-0225	3	45
3 x 25	BE-0325	3	65	BEH-0325	3	65	BT-0325	3	65
4 x 25	BE-0425	3	90	BEH-0425	3	90	BT-0425	3	90
5 x 25	BE-0525	3	90	BEH-0525	3	90	BT-0525	3	90
2 x 30	BE-0230	3	65	BEH-0230	3	65	BT-0230	3	65
3 x 30	BE-0330	3	90	BEH-0330	3	65	BT-0330	3	65
4 x 30	BE-0430	3	115	BEH-0430	3	90	BT-0430	3	90
5 x 30	BE-0530	3	115	BEH-0530	3	115	BT-0530	3	115
3 x 40	BE-0340	3	115	BEH-0340	3	65	BT-0340	3	90
4 x 40	BE-0440	3	150	BEH-0440	3	65	BT-0440	3	115
5 x 40	BE-0540	3	150	BEH-0540	3	90	BT-0540	3	150
6 x 40	BE-0640	3	200	BEH-0640	3	115	BT-0640	3	200
5 x 50	BE-0550	3	200	BEH-0550	4	200	BT-0550	4	200
6 x 50	BE-0650	3	250	BEH-0650	4	250	BT-0650	4	250
8 x 50	BE-0850	4	2-150	BEH-0850	4	2-150	BT-0850	4	2-150
6 x 60	BE-0660	3	250	BEH-0660	4	2-150	BT-0660	4	2-150
8 x 60	BE-0860	4	2-200	BEH-0860	4	2-200	BT-0860	4	2-200
10 x 60	BE-1060	4	500	BEH-1060	4	500	BT-1060	4	500
6 x 80	BE-0680	4	2-200	BEH-0680	6	2-200	BT-0680	6	2-200
8 x 80	BE-0880	4	500	BEH-0880	6	2-200	BT-0880	6	2-200
10 x 80	BE-1080	4	3-200	BEH-1080	6	500	BT-1080	6	500

TYPE BX**TYPE BS****TYPE BTV**

A in mm	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
2 x 20	BX-0220	3	45	BS-0220	3	65	BTV-0220	3	45
3 x 20	BX-0320	3	65	BS-0320	3	90	BTV-0320	3	65
4 x 20	BX-0420	3	65	BS-0420	3	90	BTV-0420	3	65
5 x 20	BX-0520	3	65	BS-0520	3	115	BTV-0520	3	90
2 x 25	BX-0225	3	65	BS-0225	3	90	BTV-0225	3	65
3 x 25	BX-0325	3	90	BS-0325	3	115	BTV-0325	3	65
4 x 25	BX-0425	3	150	BS-0425	3	115	BTV-0425	3	90
5 x 25	BX-0525	3	150	BS-0525	3	115	BTV-0525	3	115
2 x 30	BX-0230	3	90	BS-0230	3	150	BTV-0230	3	65
3 x 30	BX-0330	3	115	BS-0330	3	115	BTV-0330	3	90
4 x 30	BX-0430	3	200	BS-0430	3	150	BTV-0430	3	115
5 x 30	BX-0530	3	200	BS-0530	3	200	BTV-0530	3	115
3 x 40	BX-0340	4	250	BS-0340	3	150	BTV-0340	3	115
4 x 40	BX-0440	4	2-150	BS-0440	3	200	BTV-0440	3	150
5 x 40	BX-0540	4	2-200	BS-0540	3	200	BTV-0540	3	150
6 x 40	BX-0640	4	3-150	BS-0640	3	250	BTV-0640	3	200
5 x 50	BX-0550	4	3-200	BS-0550	3	250	BTV-0550	3	200
6 x 50	BX-0650	4	3-200	BS-0650	3	250	BTV-0650	3	250
8 x 50	BX-0850	4	3-250	BS-0850	3	250	BTV-0850	3	2-150
6 x 60	BX-0660	6	3-250	BS-0660	3	2-150	BTV-0660	4	2-150
8 x 60	BX-0860	6	3-250	BS-0860	4	2-150	BTV-0860	4	2-200
10 x 60	BX-1060	8	4-200	BS-1060	4	2-200	BTV-1060	4	500
6 x 80	BX-0680	8	3-250	BS-0680	4	2-150	BTV-0680	4	2-200
8 x 80	BX-0880	8	4-200	BS-0880	4	2-150	BTV-0880	4	500
10 x 80	BX-1080	8	4-200	BS-1080	4	2-200	BTV-1080	4	3-200

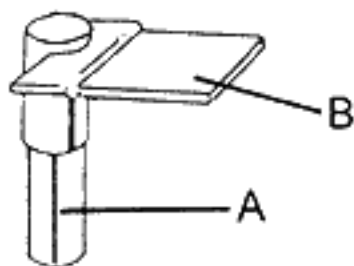
TYPE GVE

Ground Rod to
Ground Rod
Vertical



Ground Rod Size (A)	Mold Cat. No.	S	W/M
1/2 inch (13 mm)	GVE - 13	3	150
5/8 inch (16 mm)	GVE - 16	4	200
3/4 inch (18 mm)	GVE - 18	4	250
3/4 inch (20 mm)	GVE - 20	4	250
1 inch (25 mm)	GVE - 25	4	250

BUSBAR/STRAP TO GROUND ROD CONNECTIONS

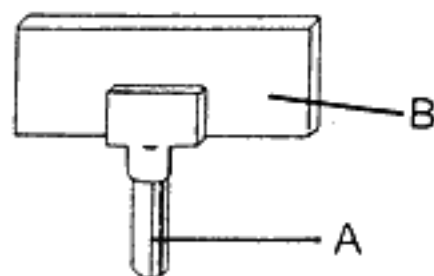


TYPE GBN

TYPE GBT

TYPE GBN

Horizontal Flat
Busbar to
Ground Rod



TYPE GBT

Vertical Busbar
to Ground Rod

Ground Rod Size (A)	B in mm	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
1/2 inch (13 mm)	2 x 20	GBN- 13/0220	3	65	GBT- 13/0220	3	65
	2 x 25	GBN- 13/0225	3	65	GBT- 13/0225	3	65
	2 x 30	GBN- 13/0230	3	90	GBT- 13/0230	3	90
	3 x 20	GBN- 13/0320	3	90	GBT- 13/0320	3	90
	3 x 25	GBN- 13/0325	3	90	GBT- 13/0325	3	90
	3 x 30	GBN- 13/0330	3	90	GBT- 13/0330	3	90
	3 x 40	GBN- 13/0340	3	90	GBT- 13/0340	3	90
	3 x 50	GBN- 13/0350	3	115	GBT- 13/0350	3	115
	4 x 20	GBN- 13/0420	3	90	GBT- 13/0420	3	90
	4 x 25	GBN- 13/0425	3	90	GBT- 13/0425	3	90
	5/8 inch (16 mm)	2 x 30	GBN- 16/0230	3	115	GBT- 16/0230	3
3 x 20		GBN- 16/0320	3	90	GBT- 16/0320	3	90
3 x 25		GBN- 16/0325	3	90	GBT- 16/0325	3	90
3 x 30		GBN- 16/0330	3	115	GBT- 16/0330	3	115
3 x 40		GBN- 16/0340	3	115	GBT- 16/0340	3	115
3 x 50		GBN- 16/0350	3	150	GBT- 16/0350	3	200
4 x 20		GBN- 16/0420	3	90	GBT- 16/0420	3	90
4 x 25		GBN- 16/0425	3	115	GBT- 16/0425	3	115
5 x 25		GBN- 16/0525	3	115	GBT- 16/0525	3	115
5 x 30		GBN- 16/0530	3	150	GBT- 16/0530	3	150
5 x 40		GBN- 16/0540	3	150	GBT- 16/0540	3	150
5 x 50		GBN- 16/0550	3	200	GBT- 16/0550	3	200
6 x 25		GBN- 16/0625	3	150	GBT- 16/0625	3	150
6 x 30		GBN- 16/0630	3	150	GBT- 16/0630	3	150
6 x 40		GBN- 16/0640	3	200	GBT- 16/0640	3	200
6 x 50		GBN- 16/0650	3	200	GBT- 16/0650	3	250

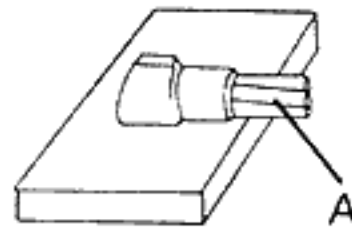
TYPE GBN

TYPE GBT

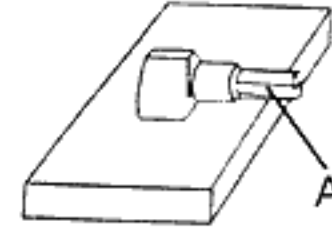
Ground Rod Size (A)	B in mm	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	
3/4 inch (18 mm)	2 x 30	GBN- 18/0230	3	150	GBT- 18/0230	3	150	
	3 x 20	GBN- 18/0320	3	115	GBT- 18/0320	3	150	
	3 x 25	GBN- 18/0325	3	150	GBT- 18/0325	3	150	
	3 x 30	GBN- 18/0330	3	150	GBT- 18/0330	3	150	
	3 x 40	GBN- 18/0340	3	200	GBT- 18/0340	3	200	
	3 x 50	GBN- 18/0350	4	2-150	GBT- 18/0350	4	2-150	
	4 x 20	GBN- 18/0420	3	150	GBT- 18/0420	3	150	
	4 x 25	GBN- 18/0425	3	150	GBT- 18/0425	3	200	
	5 x 25	GBN- 18/0525	3	150	GBT- 18/0525	3	150	
	5 x 30	GBN- 18/0530	3	200	GBT- 18/0530	3	200	
	5 x 40	GBN- 18/0540	3	200	GBT- 18/0540	3	200	
	5 x 50	GBN- 18/0550	4	2-150	GBT- 18/0550	4	2-150	
	6 x 25	GBN- 18/0625	3	200	GBT- 18/0625	3	200	
	6 x 30	GBN- 18/0630	3	250	GBT- 18/0630	3	250	
	6 x 40	GBN- 18/0640	4	2-200	GBT- 18/0640	3	250	
	6 x 50	GBN- 18/0650	4	2-200	GBT- 18/0650	4	2-150	
	3/4 inch (20 mm)	2 x 30	GBN- 20/0230	3	150	GBT- 20/0230	3	150
		3 x 20	GBN- 20/0320	3	115	GBT- 20/0320	3	150
3 x 25		GBN- 20/0325	3	150	GBT- 20/0325	3	150	
3 x 30		GBN- 20/0330	3	150	GBT- 20/0330	3	150	
3 x 40		GBN- 20/0340	3	200	GBT- 20/0340	3	200	
3 x 50		GBN- 20/0350	4	2-150	GBT- 20/0350	4	2-150	
4 x 20		GBN- 20/0420	3	150	GBT- 20/0420	3	150	
4 x 25		GBN- 20/0425	3	150	GBT- 20/0425	3	200	
5 x 25		GBN- 20/0525	3	150	GBT- 20/0525	3	150	
5 x 30		GBN- 20/0530	3	200	GBT- 20/0530	3	200	
5 x 40		GBN- 20/0540	3	200	GBT- 20/0540	3	200	
5 x 50		GBN- 20/0550	4	2-150	GBT- 20/0550	4	2-150	
6 x 25		GBN- 20/0625	3	200	GBT- 20/0625	3	200	
6 x 30		GBN- 20/0630	3	250	GBT- 20/0630	3	250	
6 x 40		GBN- 20/0640	4	2-200	GBT- 20/0640	4	2-200	
6 x 50		GBN- 20/0650	4	2-200	GBT- 20/0650	4	2-200	
1 inch (25 mm)		2 x 30	GBN- 25/0230	3	200	GBT- 25/0230	3	200
		3 x 20	GBN- 25/0320	3	150	GBT- 25/0320	3	150
	3 x 25	GBN- 25/0325	3	200	GBT- 25/0325	3	200	
	3 x 30	GBN- 25/0330	3	200	GBT- 25/0330	3	200	
	3 x 40	GBN- 25/0340	3	250	GBT- 25/0340	3	250	
	3 x 50	GBN- 25/0350	4	350	GBT- 25/0350	4	350	
	4 x 20	GBN- 25/0420	3	200	GBT- 25/0420	3	200	
	4 x 25	GBN- 25/0425	3	200	GBT- 25/0425	3	200	
	5 x 25	GBN- 25/0525	3	200	GBT- 25/0525	3	200	
	5 x 30	GBN- 25/0530	3	250	GBT- 25/0530	3	250	
	5 x 40	GBN- 25/0540	3	250	GBT- 25/0540	3	250	
	5 x 50	GBN- 25/0550	4	350	GBT- 25/0550	4	350	
	6 x 25	GBN- 25/0625	3	250	GBT- 25/0625	3	250	
	6 x 30	GBN- 25/0630	3	300	GBT- 25/0630	3	300	
	6 x 40	GBN- 25/0640	4	400	GBT- 25/0640	4	400	
	6 x 50	GBN- 25/0650	4	450	GBT- 25/0650	4	450	
	6 x 60	GBN- 25/0660	6	2-250	GBT- 25/0660	6	2-250	
	8 x 60	GBN- 25/0860	6	2-250	GBT- 25/0860	6	2-250	
	10 x 60	GBN- 25/1060	8	3-200	GBT- 25/1060	8	3-200	
	6 x 80	GBN- 25/0680	6	2-250	GBT- 25/0680	6	2-250	
8 x 80	GBN- 25/0880	8	3-200	GBT- 25/0880	8	3-200		
10 x 80	GBN- 25/1080	8	3-250	GBT- 25/1080	8	3-250		

TYPE SHEA

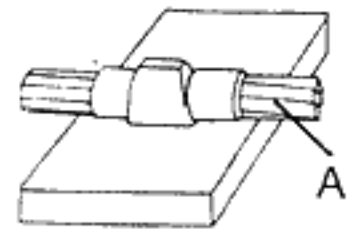
Horizontal Wire Tap to Horizontal Plate (on Plate)



TYPE SHEA



TYPE SHEB



TYPE SHTA

TYPE SHEB

Horizontal Wire Tap to Horizontal Plate (Off Plate)

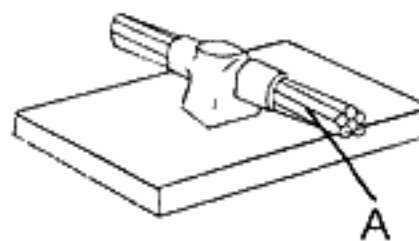
TYPE SHTA

Horizontal Thru Wire to Horizontal Plate (On Plate)

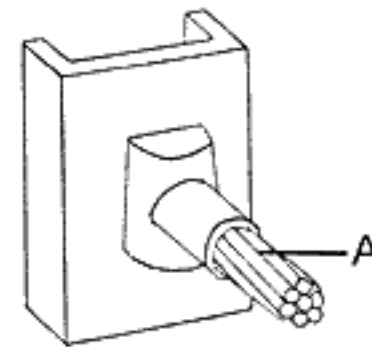
A in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
14	SHEA-14	1	45	SHEB-14	1	45	SHTA-14	1	45
22	SHEA-22	1	45	SHEB-22	1	45	SHTA-22	1	45
30	SHEA-30	1	45	SHEB-30	1	45	SHTA-30	1	45
38	SHEA-38	1	65	SHEB-38	1	65	SHTA-38	1	65
50	SHEA-50	1	90	SHEB-50	3	90	SHTA-50	3	90
60	SHEA-60	3	115	SHEB-60	3	115	SHTA-60	3	115
80	SHEA-80	3	115	SHEB-80	3	115	SHTA-80	3	115
100	SHEA-100	3	115	SHEB-100	3	115	SHTA-100	3	150
125	SHEA-125	3	115	SHEB-125	3	115	SHTA-125	3	150
150	SHEA-150	3	150	SHEB-150	3	150	SHTA-150	3	200
200	SHEA-200	3	200	SHEB-200	3	200	SHTA-200	3	250
250	SHEA-250	3	200	SHEB-250	3	200	SHTA-250	4	2-150
300	SHEA-300	3	250	SHEB-300	3	250	SHTA-300	4	2-200
325	SHEA-325	3	250	SHEB-325	3	250	SHTA-325	4	2-200
400	SHEA-400	4	2-150	SHEB-400	4	2-150	SHTA-400	6	2-250
500	SHEA-500	4	2-200	SHEB-500	4	2-200	SHTA-500	6	2-250

TYPE SHTB

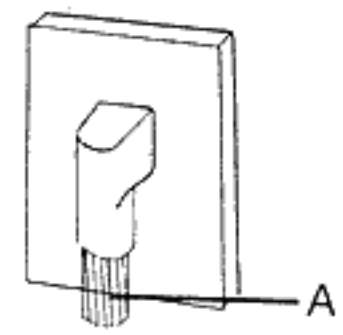
Horizontal Thru Wire to Horizontal Plate (Off Plate)



TYPE SHTB



TYPE SVES



TYPE SVED

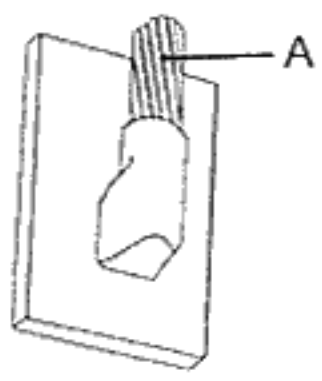
TYPE SVES

Angular Down Tap Wire to Vertical Plate Surface

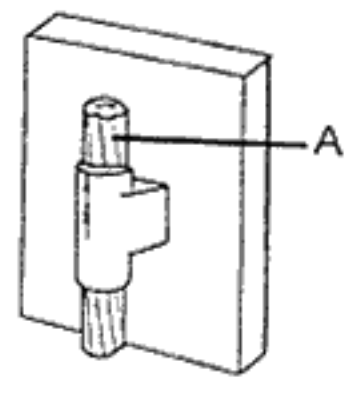
TYPE SVED

Vertical Down Tap Wire to Vertical Plate Surface (On Plate or Off Plate Available)

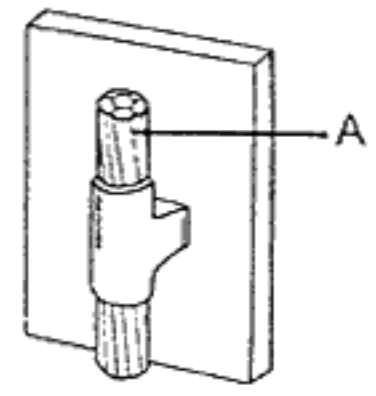
A in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
14	SHTB-14	1	45	SVES-14	3	45	SVED-14	3	65
22	SHTB-22	1	45	SVES-22	3	45	SVED-22	3	65
30	SHTB-30	1	45	SVES-30	3	45	SVED-30	3	65
38	SHTB-38	1	65	SVES-38	3	65	SVED-38	3	90
50	SHTB-50	3	90	SVES-50	3	90	SVED-50	3	90
60	SHTB-60	3	115	SVES-60	3	115	SVED-60	3	150
80	SHTB-80	3	115	SVES-80	3	115	SVED-80	3	150
100	SHTB-100	3	150	SVES-100	3	115	SVED-100	3	150
125	SHTB-125	3	150	SVES-125	3	115	SVED-125	3	200
150	SHTB-150	3	200	SVES-150	3	150	SVED-150	3	200
200	SHTB-200	3	250	SVES-200	3	200	SVED-200	3	250
250	SHTB-250	4	2-150	SVES-250	3	200	SVED-250	5	2-150
300	SHTB-300	4	2-200	SVES-300	3	250	SVED-300	5	2-200
325	SHTB-325	4	2-200	SVES-325	3	250	SVED-325	5	2-200
400	SHTB-400	6	2-250	SVES-400	4	2-150	SVED-400	7	2-250
500	SHTB-500	6	2-250	SVES-500	4	2-200	SVED-500	7	2-250



TYPE SVEU



TYPE SVTVA



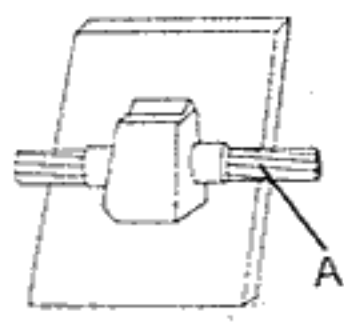
TYPE SVTVB

TYPE SVEU
Vertical Up Wire Tap to Vertical Plate (On Plate or off plate available)

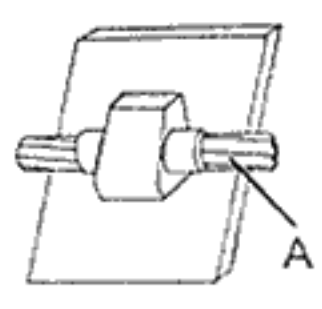
TYPE SVTVA
Vertical Thru Wire to Vertical Plate (On Plate)

TYPE SVTVB
Vertical Thru Wire to Vertical Plate (Off Plate)

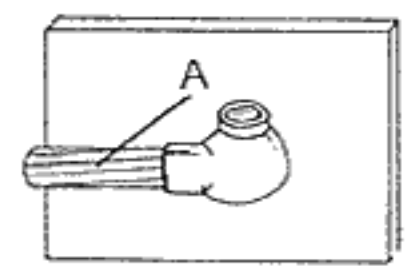
A in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
14	SVEU-14	3	65	SVTVA-14	3	90	SVTVB-14	3	90
22	SVEU-22	3	65	SVTVA-22	3	90	SVTVB-22	3	90
30	SVEU-30	3	65	SVTVA-30	3	90	SVTVB-30	3	90
38	SVEU-38	3	90	SVTVA-38	3	115	SVTVB-38	3	115
50	SVEU-50	3	90	SVTVA-50	5	150	SVTVB-50	5	150
60	SVEU-60	3	150	SVTVA-60	5	200	SVTVB-60	5	200
80	SVEU-80	3	150	SVTVA-80	5	250	SVTVB-80	5	250
100	SVEU-100	3	150	SVTVA-100	5	250	SVTVB-100	5	250
125	SVEU-125	3	200	SVTVA-125	5	250	SVTVB-125	5	250
150	SVEU-150	3	200	SVTVA-150	5	2-150	SVTVB-150	5	2-150
200	SVEU-200	3	250	SVTVA-200			SVTVB-200		
250	SVEU-250	5	2-150	SVTVA-250			SVTVB-250		
300	SVEU-300	5	2-200	SVTVA-300			SVTVB-300		
325	SVEU-325			SVTVA-325			SVTVB-325		
400	SVEU-400			SVTVA-400			SVTVB-400		
500	SVEU-500			SVTVA-500			SVTVB-500		



TYPE SVTHA



TYPE SVTHB



TYPE SVEH-(L/R)

TYPE SVTHA
Horizontal Thru Wire to Vertical Plate (On Plate)

TYPE SVTHB
Horizontal Thru Wire to Vertical Plate (Off Plate)

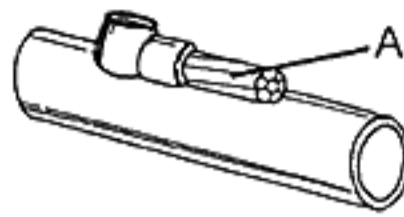
TYPE SVEH-(L/R)
Horizontal Tap Wire to Vertical Plate Surface (Specify Left or Right, On Plate or Off Plate Available)

A in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
14	SVTHA-14	3	45	SVTHB-14	3	65	SVEH-14-(L/R)	3	45
22	SVTHA-22	3	45	SVTHB-22	3	65	SVEH-22-(L/R)	3	45
30	SVTHA-30	3	45	SVTHB-30	3	65	SVEH-30-(L/R)	3	45
38	SVTHA-38	3	65	SVTHB-38	3	90	SVEH-38-(L/R)	3	65
50	SVTHA-50	3	90	SVTHB-50	3	115	SVEH-50-(L/R)	3	90
60	SVTHA-60	3	115	SVTHB-60	3	115	SVEH-60-(L/R)	3	115
80	SVTHA-80	3	150	SVTHB-80	3	150	SVEH-80-(L/R)	3	115
100	SVTHA-100	3	150	SVTHB-100	3	150	SVEH-100-(L/R)	3	115
125	SVTHA-125	3	150	SVTHB-125	3	150	SVEH-125-(L/R)	3	115
150	SVTHA-150	3	200	SVTHB-150	3	200	SVEH-150-(L/R)	3	150
200	SVTHA-200	3	200	SVTHB-200	3	250	SVEH-200-(L/R)	3	200
250	SVTHA-250	3	250	SVTHB-250	5	2-150	SVEH-250-(L/R)	3	200
300	SVTHA-300	5	2-200	SVTHB-300	5	2-200	SVEH-300-(L/R)	3	250
325	SVTHA-325	5	2-200	SVTHB-325	5	2-200	SVEH-325-(L/R)	3	250
400	SVTHA-400	7	2-250	SVTHB-400	7	2-250	SVEH-400-(L/R)	5	2-150
500	SVTHA-500	7	2-250	SVTHB-500	7	2-250	SVEH-500-(L/R)	5	2-150

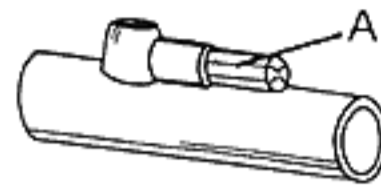
NOTE: DETAILS OF BLANK SPACES, PLEASE CONSULT SUPPLIER

TYPE SHEA-D

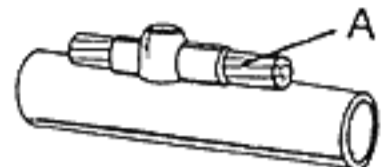
Horizontal Tap Wire to Horizontal Pipe (On Surface & On Top)



TYPE SHEA-D



TYPE SHEB-D



TYPE SHTA-D

TYPE SHEB-D

Horizontal Tap Wire to Horizontal Pipe (Off Surface & On Top)

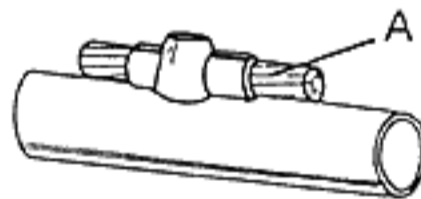
TYPE SHTA-D

Horizontal Thru Wire to Horizontal Pipe (On Surface & On Top)

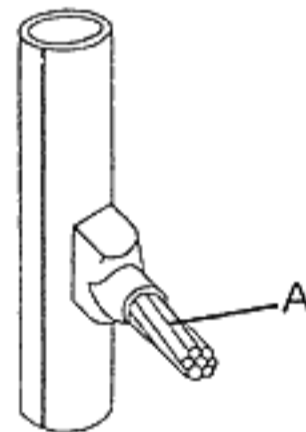
A in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
14	SHEA-14-D	1	45	SHEB-14-D	1	45	SHTA-14-D	1	45
22	SHEA-22-D	1	45	SHEB-22-D	1	45	SHTA-22-D	1	45
30	SHEA-30-D	1	45	SHEB-30-D	1	45	SHTA-30-D	1	45
38	SHEA-38-D	1	65	SHEB-38-D	1	65	SHTA-38-D	1	65
50	SHEA-50-D	1	90	SHEB-50-D	3	90	SHTA-50-D	3	90
60	SHEA-60-D	3	115	SHEB-60-D	3	115	SHTA-60-D	3	115
80	SHEA-80-D	3	115	SHEB-80-D	3	115	SHTA-80-D	3	115
100	SHEA-100-D	3	115	SHEB-100-D	3	115	SHTA-100-D	3	150
125	SHEA-125-D	3	115	SHEB-125-D	3	115	SHTA-125-D	3	150
150	SHEA-150-D	3	150	SHEB-150-D	3	150	SHTA-150-D	3	200
200	SHEA-200-D	3	200	SHEB-200-D	3	200	SHTA-200-D	3	250
250	SHEA-250-D	3	200	SHEB-250-D	3	200	SHTA-250-D	5	2-150
300	SHEA-300-D	3	250	SHEB-300-D	3	250	SHTA-300-D	5	2-200
325	SHEA-325-D	3	250	SHEB-325-D	3	250	SHTA-325-D	5	2-200
400	SHEA-400-D	5	2-150	SHEB-400-D	5	2-150	SHTA-400-D	7	2-250
500	SHEA-500-D	5	2-150	SHEB-500-D	5	2-150	SHTA-500-D	7	2-250

TYPE SHTB-D

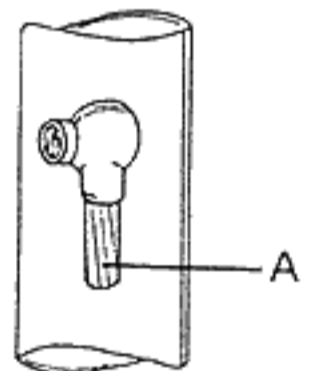
Horizontal Thru Wire to Horizontal Pipe (Off Surface & On Top)



TYPE SHTB-D



TYPE SVES-D



TYPE SVED-D

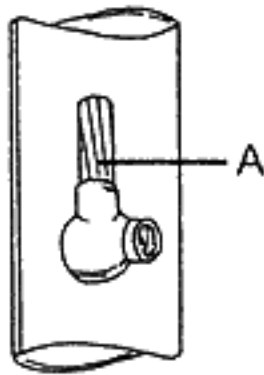
TYPE SVES-D

Angular Down Tap Wire to Vertical Pipe Surface

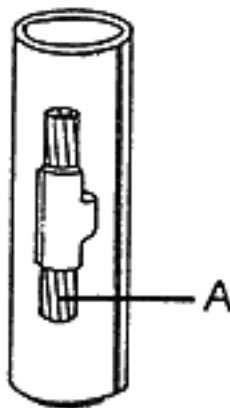
TYPE SVED-D

Vertical Down Tap Wire to Vertical Pipe Surface

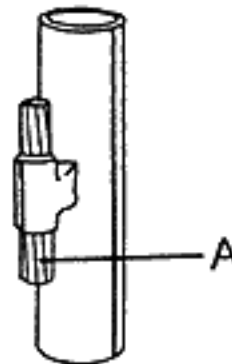
A in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
14	SHTB-14-D	1	45	SVES-14-D	3	45	SVED-14-D	3	65
22	SHTB-22-D	1	45	SVES-22-D	3	45	SVED-22-D	3	65
30	SHTB-30-D	1	45	SVES-30-D	3	45	SVED-30-D	3	65
38	SHTB-38-D	1	65	SVES-38-D	3	65	SVED-38-D	3	90
50	SHTB-50-D	3	90	SVES-50-D	3	90	SVED-50-D	3	90
60	SHTB-60-D	3	115	SVES-60-D	3	115	SVED-60-D	3	150
80	SHTB-80-D	3	115	SVES-80-D	3	115	SVED-80-D	3	150
100	SHTB-100-D	3	150	SVES-100-D	3	115	SVED-100-D	3	150
125	SHTB-125-D	3	150	SVES-125-D	3	115	SVED-125-D	3	200
150	SHTB-150-D	3	200	SVES-150-D	3	150	SVED-150-D	3	200
200	SHTB-200-D	3	250	SVES-200-D	3	200	SVED-200-D	3	250
250	SHTB-250-D	5	2-150	SVES-250-D	3	200	SVED-250-D	5	2-150
300	SHTB-300-D	5	2-200	SVES-300-D	3	250	SVED-300-D	5	2-200
325	SHTB-325-D	5	2-200	SVES-325-D	3	250	SVED-325-D	5	2-200
400	SHTB-400-D	7	2-250	SVES-400-D	5	2-150	SVED-400-D	7	2-250
500	SHTB-500-D	7	2-250	SVES-500-D	5	2-150	SVED-500-D	7	2-250



TYPE SVEU-D



TYPE SVTVA-D



TYPE SVTVB-D

TYPE SVEU-D

Vertical Up Wire Tap to Vertical Pipe

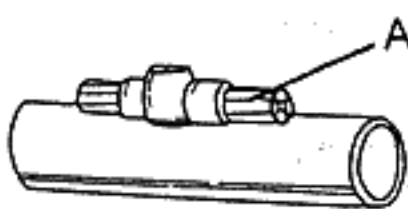
TYPE SVTVA-D

Vertical Thru Wire to Vertical Pipe (On Surface)

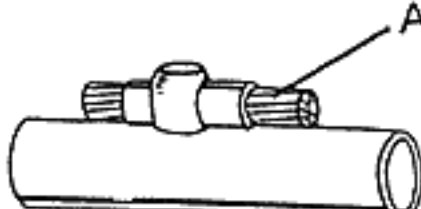
TYPE SVTVB-D

Vertical Thru Wire to Vertical Pipe (Off Surface)

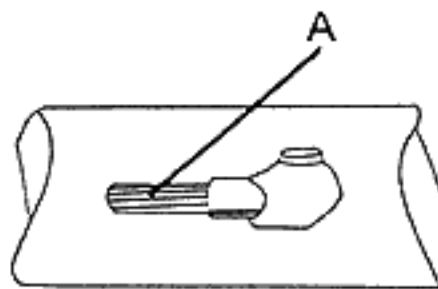
A in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
14	SVEU-14-D	3	65	SVTVA-14-D	3	90	SVTVB-14-D	3	90
22	SVEU-22-D	3	65	SVTVA-22-D	3	90	SVTVB-22-D	3	90
30	SVEU-30-D	3	65	SVTVA-30-D	3	90	SVTVB-30-D	3	90
38	SVEU-38-D	3	90	SVTVA-38-D	3	115	SVTVB-38-D	3	115
50	SVEU-50-D	3	90	SVTVA-50-D	5	150	SVTVB-50-D	5	150
60	SVEU-60-D	3	150	SVTVA-60-D	5	200	SVTVB-60-D	5	200
80	SVEU-80-D	5	200	SVTVA-80-D	5	250	SVTVB-80-D	5	250
100	SVEU-100-D	5	200	SVTVA-100-D	5	250	SVTVB-100-D	5	250
125	SVEU-125-D	5	200	SVTVA-125-D	5	250	SVTVB-125-D	5	250
150	SVEU-150-D	5	200	SVTVA-150-D	5	2-150	SVTVB-150-D	5	2-150
200	SVEU-200-D	5	250	SVTVA-200-D			SVTVB-200-D		
250	SVEU-250-D	7	2-150	SVTVA-250-D			SVTVB-250-D		
300	SVEU-300-D	7	2-200	SVTVA-300-D			SVTVB-300-D		
325	SVEU-325-D			SVTVA-325-D			SVTVB-325-D		
400	SVEU-400-D			SVTVA-400-D			SVTVB-400-D		
500	SVEU-500-D			SVTVA-500-D			SVTVB-500-D		



TYPE SVTHA-D



TYPE SVTHB-D



TYPE SVEH-(L/R)D

TYPE SVTHA-D

Horizontal Thru Wire to Horizontal Pipe (On Surface & in front of viewer)

TYPE SVTHB-D

Horizontal Thru Wire to Horizontal Pipe (Off Surface & in front of viewer)

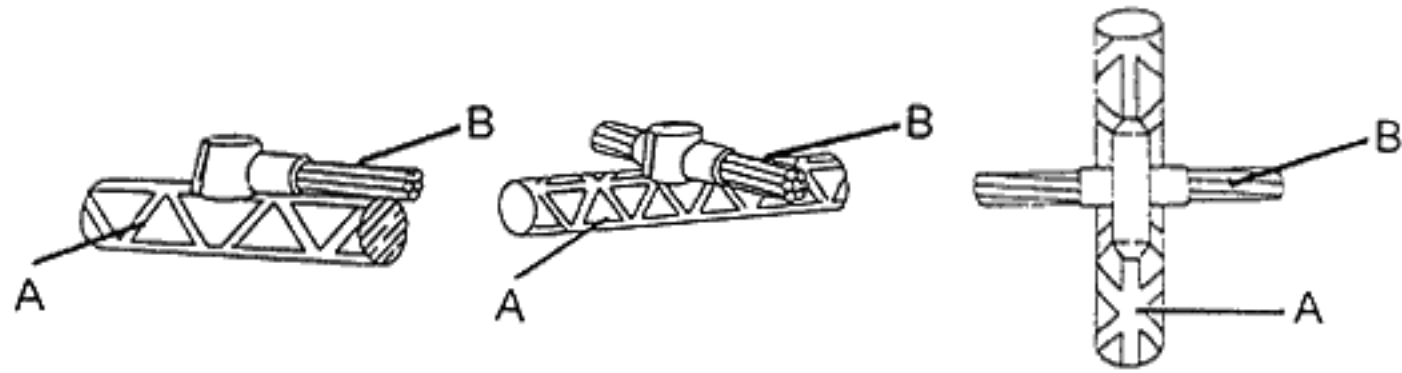
TYPE SVEH-(L/R)D

Horizontal Tap Wire to Horizontal Pipe Surface (Left or Right & in front of viewer)

A in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
14	SVTHA-14-D	3	45	SVTHB-14-D	3	65	SVEH-14-(L/R)D	3	45
22	SVTHA-22-D	3	45	SVTHB-22-D	3	65	SVEH-22-(L/R)D	3	45
30	SVTHA-30-D	3	45	SVTHB-30-D	3	65	SVEH-30-(L/R)D	3	45
38	SVTHA-38-D	3	65	SVTHB-38-D	3	90	SVEH-38-(L/R)D	3	65
50	SVTHA-50-D	3	90	SVTHB-50-D	3	115	SVEH-50-(L/R)D	3	90
60	SVTHA-60-D	3	115	SVTHB-60-D	3	115	SVEH-60-(L/R)D	3	115
80	SVTHA-80-D	3	150	SVTHB-80-D	3	150	SVEH-80-(L/R)D	3	115
100	SVTHA-100-D	3	150	SVTHB-100-D	3	150	SVEH-100-(L/R)D	3	115
125	SVTHA-125-D	3	150	SVTHB-125-D	3	150	SVEH-125-(L/R)D	3	115
150	SVTHA-150-D	3	200	SVTHB-150-D	3	200	SVEH-150-(L/R)D	3	150
200	SVTHA-200-D	3	200	SVTHB-200-D	3	250	SVEH-200(L/R)-D	3	200
250	SVTHA-250-D	3	250	SVTHB-250-D	4	2-150	SVEH-250-(L/R)D	3	200
300	SVTHA-300-D	3	2-200	SVTHB-300-D	4	2-200	SVEH-300-(L/R)D	3	250
325	SVTHA-325-D			SVTHB-325-D			SVEH-325-(L/R)D		
400	SVTHA-400-D			SVTHB-400-D			SVEH-400-(L/R)D		
500	SVTHA-500-D			SVTHB-500-D			SVEH-500-(L/R)D		

NOTE: DETAILS OF BLANK SPACES, PLEASE CONSULT SUPPLIER

WIRE TO REBAR CONNECTIONS



TYPE RHEH

Horizontal Wire
Tap to Horizontal
Rebar

TYPE RHXH

Horizontal Thru
Wire (X) to
Horizontal Rebar

TYPE RVXH

Horizontal Thru
Wire to Vertical
Rebar

Rebar Diameter in mm (A)	Wire in mm ² (B)	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
10 MM	22	RHEH- 10/22	3	32	RHXH- 10/22	3	65	RVXH- 10/22	7	90
	30	RHEH- 10/30	3	45	RHXH- 10/30	3	90	RVXH- 10/30	7	90
	38	RHEH- 10/38	3	65	RHXH- 10/38	3	90	RVXH- 10/38	7	90
	50	RHEH- 10/50	3	90	RHXH- 10/50	9	115	RVXH- 10/50	7	115
	60	RHEH- 10/60	3	90	RHXH- 10/60	10	115	RVXH- 10/60	7	115
	80	RHEH- 10/80	3	115	RHXH- 10/80	10	150	RVXH- 10/80	7	150
	100	RHEH- 10/100	3	115	RHXH- 10/100	10	150	RVXH- 10/100	7	150
	125	RHEH- 10/125	3	150	RHXH- 10/125	10	200	RVXH- 10/125	7	200
	150	RHEH- 10/150	3	150	RHXH- 10/150	10	250	RVXH- 10/150	7	250
12 MM	22	RHEH- 12/22	3	32	RHXH- 12/22	3	65	RVXH- 12/22	7	90
	30	RHEH- 12/30	3	45	RHXH- 12/30	3	90	RVXH- 12/30	7	90
	38	RHEH- 12/38	3	65	RHXH- 12/38	9	90	RVXH- 12/38	7	90
	50	RHEH- 12/50	3	90	RHXH- 12/50	9	115	RVXH- 12/50	7	115
	60	RHEH- 12/60	3	90	RHXH- 12/60	9	115	RVXH- 12/60	7	115
	80	RHEH- 12/80	3	115	RHXH- 12/80	10	150	RVXH- 12/80	7	150
	100	RHEH- 12/100	3	115	RHXH- 12/100	10	150	RVXH- 12/100	7	150
	125	RHEH- 12/125	3	150	RHXH- 12/125	10	200	RVXH- 12/125	7	200
	150	RHEH- 12/150	3	150	RHXH- 12/150	10	250	RVXH- 12/150	7	250
16 MM	22	RHEH- 16/22	3	32	RHXH- 16/22	3	65	RVXH- 16/22	7	90
	30	RHEH- 16/30	3	45	RHXH- 16/30	3	90	RVXH- 16/30	7	90
	38	RHEH- 16/38	3	65	RHXH- 16/38	9	90	RVXH- 16/38	7	90
	50	RHEH- 16/50	3	90	RHXH- 16/50	9	115	RVXH- 16/50	7	115
	60	RHEH- 16/60	3	90	RHXH- 16/60	9	115	RVXH- 16/60	7	115
	80	RHEH- 16/80	3	115	RHXH- 16/80	10	150	RVXH- 16/80	7	150
	100	RHEH- 16/100	3	115	RHXH- 16/100	10	150	RVXH- 16/100	7	150
	125	RHEH- 16/125	3	150	RHXH- 16/125	10	200	RVXH- 16/125	7	200
	150	RHEH- 16/150	3	150	RHXH- 16/150	10	250	RVXH- 16/150	7	250
20 mm	22	RHEH- 20/22	3	32	RHXH- 20/22	9	65	RVXH- 20/22	7	90
	30	RHEH- 20/30	3	45	RHXH- 20/30	9	90	RVXH- 20/30	7	90
	38	RHEH- 20/38	3	65	RHXH- 20/38	9	90	RVXH- 20/38	7	90
	50	RHEH- 20/50	3	90	RHXH- 20/50	9	115	RVXH- 20/50	7	115
	60	RHEH- 20/60	3	90	RHXH- 20/60	9	115	RVXH- 20/60	7	115
	80	RHEH- 20/80	3	115	RHXH- 20/80	10	150	RVXH- 20/80	7	150
	100	RHEH- 20/100	3	115	RHXH- 20/100	10	150	RVXH- 20/100	7	150
	125	RHEH- 20/125	3	150	RHXH- 20/125	10	200	RVXH- 20/125	7	200
	150	RHEH- 20/150	3	150	RHXH- 20/150	10	250	RVXH- 20/150	7	250
	200	RHEH- 20/200	4	250	RHXH- 20/200			RVXH- 20/200		
	250	RHEH- 20/250	4	250	RHXH- 20/250			RVXH- 20/250		

NOTE: DETAILS OF BLANK SPACES, PLEASE CONSULT SUPPLIER

TYPE RHEH

TYPE RHXH

TYPE RVXH

Rebar Diameter in MM	Wire in mm ²	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
25 MM	22	RHEH- 25/22	3	32	RHXH- 25/22	9	65	RVXH- 25/22	7	90
	30	RHEH- 25/30	3	45	RHXH- 25/30	9	90	RVXH- 25/30	7	90
	38	RHEH- 25/38	3	65	RHXH- 25/38	9	90	RVXH- 25/38	7	90
	50	RHEH- 25/50	3	90	RHXH- 25/50	9	115	RVXH- 25/50	7	115
	60	RHEH- 25/60	3	90	RHXH- 25/60	9	115	RVXH- 25/60	7	115
	80	RHEH- 25/80	3	115	RHXH- 25/80	9	150	RVXH- 25/80	7	150
	100	RHEH- 25/100	3	115	RHXH- 25/100	10	150	RVXH- 25/100	7	150
	125	RHEH- 25/125	3	150	RHXH- 25/125	10	200	RVXH- 25/125	7	200
	150	RHEH- 25/150	3	150	RHXH- 25/150	10	250	RVXH- 25/150	7	250
	200	RHEH- 25/200	4	250	RHXH- 25/200	10	250	RVXH- 25/200	7	250
	250	RHEH- 25/250			RHXH- 25/250			RVXH- 25/250		
	325	RHEH- 25/325			RHXH- 25/325			RVXH- 25/325		
	28 MM	22	RHEH- 28/22	3	32	RHXH- 28/22	9	65	RVXH- 28/22	7
30		RHEH- 28/30	3	45	RHXH- 28/30	9	90	RVXH- 28/30	7	90
38		RHEH- 28/38	3	65	RHXH- 28/38	9	90	RVXH- 28/38	7	90
50		RHEH- 28/50	3	90	RHXH- 28/50	9	115	RVXH- 28/50	7	115
60		RHEH- 28/60	3	90	RHXH- 28/60	9	115	RVXH- 28/60	7	115
80		RHEH- 28/80	3	115	RHXH- 28/80	10	150	RVXH- 28/80	7	150
100		RHEH- 28/100	3	115	RHXH- 28/100	10	150	RVXH- 28/100	7	150
125		RHEH- 28/125	3	150	RHXH- 28/125	10	200	RVXH- 28/125	7	200
150		RHEH- 28/150	3	150	RHXH- 28/150	10	250	RVXH- 28/150	7	250
200		RHEH- 28/200	4	250	RHXH- 28/200	10	250	RVXH- 28/200	7	250
250		RHEH- 28/250			RHXH- 28/250			RVXH- 28/250		
325		RHEH- 28/325			RHXH- 28/325			RVXH- 28/325		
400		RHEH- 28/400			RHXH- 28/400			RVXH- 28/400		
32 MM	22	RHEH- 32/22	3	32	RHXH- 32/22	9	65	RVXH- 32/33	7	90
	30	RHEH- 32/30	3	45	RHXH- 32/30	9	90	RVXH- 32/30	7	90
	38	RHEH- 32/38	3	65	RHXH- 32/38	9	90	RVXH- 32/38	7	90
	50	RHEH- 32/50	3	90	RHXH- 32/50	9	115	RVXH- 32/50	7	115
	60	RHEH- 32/60	3	90	RHXH- 32/60	9	115	RVXH- 32/60	7	115
	80	RHEH- 32/80	3	115	RHXH- 32/80	10	150	RVXH- 32/80	7	150
	100	RHEH- 32/100	3	115	RHXH- 32/100	10	150	RVXH- 32/100	7	150
	125	RHEH- 32/125	3	150	RHXH- 32/125	10	200	RVXH- 32/125	7	200
	150	RHEH- 32/150	3	150	RHXH- 32/150	10	250	RVXH- 32/150	7	250
	200	RHEH- 32/200	4	250	RHXH- 32/200	10	250	RVXH- 32/200	7	250
	250	RHEH- 32/250			RHXH- 32/250			RVXH- 32/250		
	325	RHEH- 32/325			RHXH- 32/325			RVXH- 32/325		
	400	RHEH- 32/400			RHXH- 32/400			RVXH- 32/400		
500	RHEH- 32/500	4	2-200	RHXH- 32/500			RVXH- 32/500			
36 MM	22	RHEH- 36/22	3	45	RHXH- 36/22	9	65	RVXH- 36/22	7	90
	30	RHEH- 36/30	3	45	RHXH- 36/30	9	90	RVXH- 36/30	7	90
	38	RHEH- 36/38	3	65	RHXH- 36/38	9	90	RVXH- 36/38	7	90
	50	RHEH- 36/50	3	90	RHXH- 36/50	9	115	RVXH- 36/50	7	115
	60	RHEH- 36/60	3	90	RHXH- 36/60	9	115	RVXH- 36/60	7	115
	80	RHEH- 36/80	3	115	RHXH- 36/80	10	150	RVXH- 36/80	7	150
	100	RHEH- 36/100	3	115	RHXH- 36/100	10	150	RVXH- 36/100	7	150
	125	RHEH- 36/125	3	150	RHXH- 36/125	10	200	RVXH- 36/125	7	200
	150	RHEH- 36/150	3	150	RHXH- 36/150	10	250	RVXH- 36/150	7	250
	200	RHEH- 36/200	4	250	RHXH- 36/200	10	250	RVXH- 36/200	7	250
	250	RHEH- 36/250			RHXH- 36/250			RVXH- 36/250		
	325	RHEH- 36/325			RHXH- 36/325			RVXH- 36/325		
	400	RHEH- 36/400			RHXH- 36/400			RVXH- 36/400		
500	RHEH- 36/500			RHXH- 36/500			RVXH- 36/500			

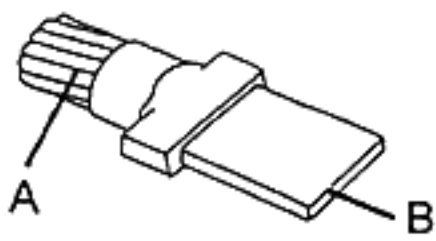
NOTE: DETAILS OF BLANK SPACES, PLEASE CONSULT SUPPLIER

TYPE PK

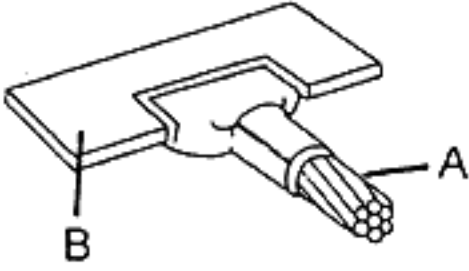
TYPE PT

TYPE PY

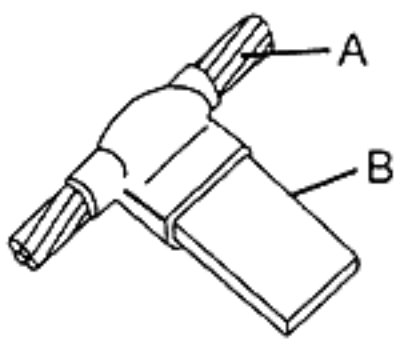
A mm ²	B mm	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M	Mold Cat. No.	S	W/M
8	2 x 20	PK- 08/0220	3	32	PT- 08/0220	3	25	PY- 08/0220	3	45
14	2 x 20	PK- 14/0220	3	45	PT- 14/0220	3	32	PY- 14/0220	3	45
	3 x 25	PK- 14/0325	3	45	PT- 14/0325	3	45	PY- 14/0325	3	45
22	2 x 20	PK- 22/0220	3	45	PT- 22/0220	3	32	PY- 22/0220	3	45
	2 x 25	PK- 22/0225	3	45	PT- 22/0225	3	45	PY- 22/0225	3	45
	3 x 25	PK- 22/0325	3	45	PT- 22/0325	3	45	PY- 22/0325	3	45
30	2 x 25	PK- 30/0225	3	45	PT- 30/0225	3	45	PY- 30/0225	3	45
	3 x 25	PK- 30/0325	3	45	PT- 30/0325	3	45	PY- 30/0325	3	65
38	2 x 20	PK- 38/0220	3	45	PT- 38/0220	3	45	PY- 38/0220	3	65
	3 x 25	PK- 38/0325	3	45	PT- 38/0325	3	45	PY- 38/0325	3	65
50	2 x 25	PK- 50/0225	3	45	PT- 50/0225	3	45	PY- 50/0225	3	65
	3 x 25	PK- 50/0325	3	65	PT- 50/0325	3	45	PY- 50/0325	3	65
	3 x 35	PK- 50/0335	3	65	PT- 50/0335	3	65	PY- 50/0335	3	90
	4 x 25	PK- 50/0425	3	65	PT- 50/0425	3	65	PY- 50/0425	3	90
	5 x 25	PK- 50/0525	3	65	PT- 50/0525	3	65	PY- 50/0525	3	90
60	3 x 25	PK- 60/0325	3	65	PT- 60/0325	3	65	PY- 60/0325	3	90
	4 x 25	PK- 60/0425	3	65	PT- 60/0425	3	65	PY- 60/0425	3	115
	5 x 25	PK- 60/0525	3	65	PT- 60/0525	3	65	PY- 60/0525	3	115
80	3 x 25	PK- 80/0325	3	65	PT- 80/0325	3	90	PY- 80/0325	3	115
	4 x 25	PK- 80/0425	3	65	PT- 80/0425	3	90	PY- 80/0425	3	115
	5 x 25	PK- 80/0525	3	90	PT- 80/0525	3	90	PY- 80/0525	3	115
100	4 x 25	PK- 100/0425	3	90	PT- 100/0425	3	90	PY- 100/0425	3	150
	5 x 25	PK- 100/0525	3	90	PT- 100/0525	3	90	PY- 100/0525	3	150
	5 x 30	PK- 100/0530	3	90	PT- 100/0530	3	115	PY- 100/0530	3	150
	5 x 40	PK- 100/0540	3	90	PT- 100/0540	3	115	PY- 100/0540	3	150
	5 x 50	PK- 100/0550	3	90	PT- 100/0550	3	115	PY- 100/0550	3	150
	6 x 50	PK- 100/0650	3	90	PT- 100/0650	3	115	PY- 100/0650	3	150
	6 x 75	PK- 100/0675	3	90	PT- 100/0675	3	115	PY- 100/0675	3	200
125	5 x 25	PK- 125/0525	3	90	PT- 125/0525	3	90	PY- 125/0525	3	150
	5 x 30	PK- 125/0530	3	90	PT- 125/0530	3	115	PY- 125/0530	3	200
	5 x 40	PK- 125/0540	3	115	PT- 125/0540	3	115	PY- 125/0540	3	200
	5 x 50	PK- 125/0550	3	115	PT- 125/0550	3	115	PY- 125/0550	3	200
	6 x 50	PK- 125/0650	3	115	PT- 125/0650	3	115	PY- 125/0650	3	250
	6 x 75	PK- 125/0675	3	115	PT- 125/0675	3	115	PY- 125/0675	3	250
150	5 x 30	PK- 150/0530	3	150	PT- 150/0530	3	115	PY- 150/0530	3	200
	5 x 40	PK- 150/0540	3	150	PT- 150/0540	3	115	PY- 150/0540	3	250
	5 x 50	PK- 150/0550	3	150	PT- 150/0550	3	150	PY- 150/0550	3	250
	6 x 50	PK- 150/0650	3	150	PT- 150/0650	3	150	PY- 150/0650	3	250
	6 x 75	PK- 150/0675	3	150	PT- 150/0675	3	150	PY- 150/0675	3	250
200	5 x 40	PK- 200/0540	3	150	PT- 200/0540	3	150	PY- 200/0540	3	250
	5 x 50	PK- 200/0550	3	200	PT- 200/0550	3	150	PY- 200/0550	4	2-150
	6 x 50	PK- 200/0650	3	200	PT- 200/0650	3	150	PY- 200/0650	4	2-150
	8 x 50	PK- 200/0850	3	200	PT- 200/0850	3	200	PY- 200/0850	4	2-150
	6 x 75	PK- 200/0675	3	200	PT- 200/0675	3	200	PY- 200/0675	4	2-150
	8 x 75	PK- 200/0875	3	200	PT- 200/0875	3	200	PY- 200/0875	4	2-150
250	5 x 50	PK- 250/0550	3	250	PT- 250/0550	3	200	PY- 250/0550	4	2-150
	6 x 50	PK- 250/0650	3	250	PT- 250/0650	3	250	PY- 250/0650	4	2-200
	8 x 50	PK- 250/0850	4	2-150	PT- 250/0850	4	2-150	PY- 250/0850	4	2-200
	6 x 75	PK- 250/0675	3	250	PT- 250/0675	3	250	PY- 250/0675	4	2-200
	8 x 75	PK- 250/0875	4	2-150	PT- 250/0875	4	2-150	PY- 250/0875	4	2-200
300	6 x 50	PK- 300/0650	4	2-150	PT- 300/0650	4	2-150	PY- 300/0650	4	2-250
	8 x 50	PK- 300/0850	4	2-200	PT- 300/0850	4	2-250	PY- 300/0850	4	2-250
	10 x 50	PK- 300/1050	4	2-200	PT- 300/1050	4	600	PY- 300/1050	4	2-250
	6 x 75	PK- 300/0675	4	2-150	PT- 300/0675			PY- 300/0675	4	2-250
	8 x 75	PK- 300/0875	4	2-200	PT- 300/0875			PY- 300/0875	4	2-250
400	10 x 50	PK- 400/1050	4	2-200	PT- 400/1050			PY- 400/1050	4	600
	12 x 50	PK- 400/1250	4	2-250	PT- 400/1250			PY- 400/1250		
	8 x 75	PK- 400/0875	4	2-150	PT- 400/0875			PY- 400/0875		
	10 x 75	PK- 400/1075	4	2-200	PT- 400/1075			PY- 400/1075		
	12 x 75	PK- 400/1275	4	2-250	PT- 400/1275			PY- 400/1275		
500	10 x 50	PK- 500/1050	4	2-200	PT- 500/1050			PY- 500/1050		
	12 x 50	PK- 500/1250	4	2-250	PT- 500/1250			PY- 500/1250		
	8 x 75	PK- 500/0875	4	2-200	PT- 500/0875			PY- 500/0875		



TYPE PK
Horizontal Cable Tap to Horizontal Cable Busbar or Lug

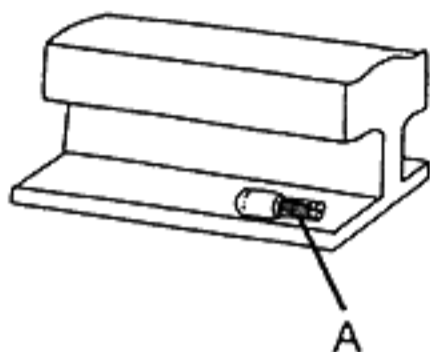


TYPE PT
Horizontal Cable Tap to Horizontal Busbar



TYPE PY
Horizontal Bus Tap to Horizontal Cable Run

NOTE: DETAILS OF BLANK SPACES, PLEASE CONSULT SUPPLIER

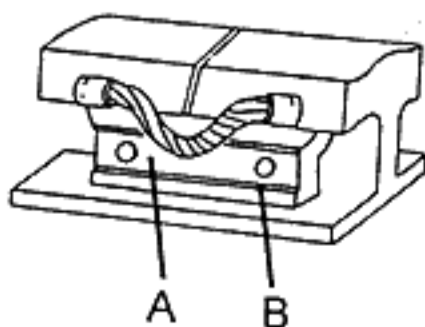
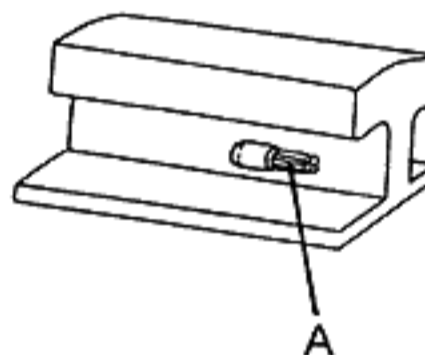


TYPE ERB
Horizontal Wire Tap to Rail Base

Wire in mm ² (A)	Mold Cat. No.	S	W/M
22	ERB- 22	1	45
30	ERB- 30	1	45
38	ERB- 38	1	65
50	ERB-- 50	3	115
60	ERB- 60	3	115
80	ERB- 80	3	115
100	ERB- 100	3	150
125	ERB-- 125	3	200
150	ERB- 150	4	250
200	ERB- 200	4	2-150
250	ERB- 250	4	2-200

Wire in mm ² (A)	Mold Cat. No.	S	W/M
22	ERW- 22	5	45
30	ERW- 30	5	45
38	ERW- 38	5	65
50	ERW- 50	5	65
60	ERW- 60	5	90
80	ERW- 80	5	90
100	ERW- 100	5	90
125	ERW- 125	5	115
150	ERW- 150	5	150
200	ERW- 200	5	200
250	ERW- 250	5	250

TYPE ERW
Horizontal Wire Tap to Rail Web.



TYPE ERT
Horizontal wire Tap to side of Rail Head

Wire in mm ² (A)	B	Mold Cat. No.	S	W/M
22	225 mm	ERT- 22	5	45
30	225 mm	ERT- 30	5	45
38	225 mm	ERT- 38	5	45
50	225 mm	ERT- 50	5	65
60	225 mm	ERT- 60	5	90
80	225 mm	ERT- 80	5	90
100	225 mm	ERT- 100	5	115
125	225 mm	ERT- 125	5	115
150	225 mm	ERT- 150	5	150
200	225 mm	ERT- 200	5	200
250	225 mm	ERT- 250	5	250

PERMAWELD TERMINAL LUGS

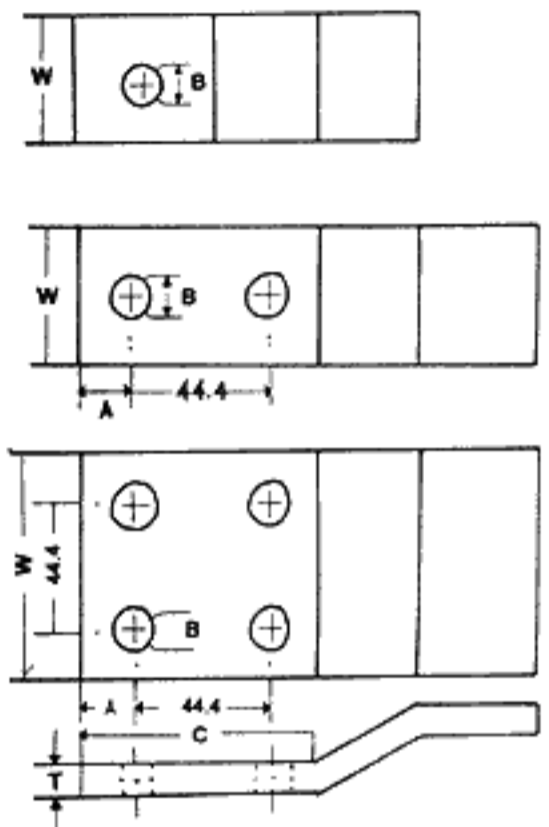
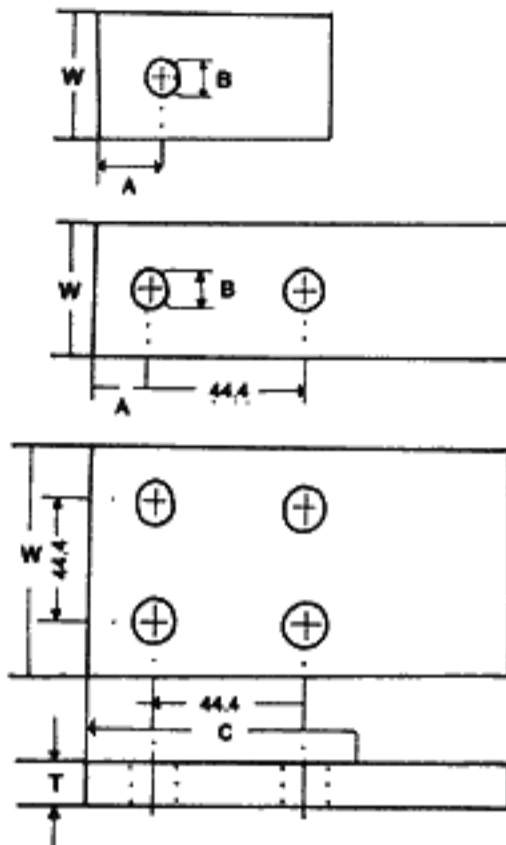
MODEL KS

Straight Type Lug

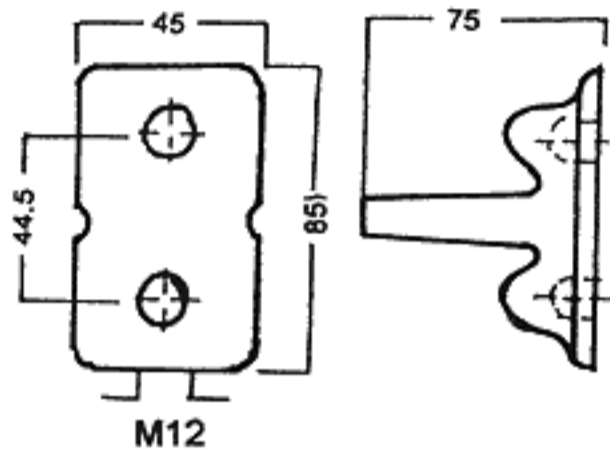
USES TYPE PK MOLD TO CONNECT TO CABLES

MODEL KZ

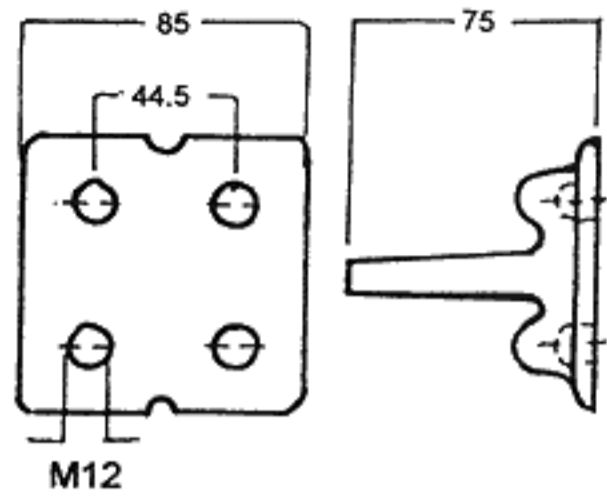
Offset Type Lug (45°)



Bar Size in MM	Cross Sectional Area in MM ²	No. of Holes	Hole Size	Catalog Number		Dimensions in MM				
				Straight Type	Offset Type	T	W	A	B	C
3 x 25	75	1	M10	KS - 0325-01	KZ - 0325-01	3	25	12	11	24
		2	M12	KS - 0325-02	KZ - 0325-02	3	25	15.3	13	75
4 x 25	100	1	M10	KS - 0425-01	KZ - 0425-01	4	25	12	11	24
		2	M12	KS - 0425-02	KZ - 0425-02	4	25	15.3	13	75
5 x 25	125	1	M12	KS - 0525-01	KZ - 0525-01	5	25	15	13	30
		2	M12	KS - 0525-02	KZ - 0525-02	5	25	15.3	13	75
5 x 30	150	1	M12	KS - 0530-01	KZ - 0530-01	5	30	15	13	30
		2	M12	KS - 0530-02	KZ - 0530-02	5	30	15.3	13	75
5 x 40	200	1	M12	KS - 0540-01	KZ - 0540-01	5	40	20	13	38
		2	M12	KS - 0540-02	KZ - 0540-02	5	40	15.3	13	75
5 x 50	250	1	M16	KS - 0550-01	KZ - 0550-01	5	50	25	17	54
		2	M12	KS - 0550-02	KZ - 0550-02	5	50	15.3	13	75
6 x 50	300	1	M16	KS - 0650-01	KZ - 0650-01	6	50	25	17	54
		2	M12	KS - 0650-02	KZ - 0650-02	6	50	15.3	13	75
8 x 50	400	1	M16	KS - 0850-01	KZ - 0850-01	8	50	25	17	54
		2	M12	KS - 0850-02	KZ - 0850-02	8	50	15.3	13	75
10 x 50	500	1	M16	KS - 1050-01	KZ - 1050-01	10	50	25	17	54
		2	M12	KS - 1050-02	KZ - 1050-02	10	50	15.3	13	75
12 x 50	600	2	M12	KS - 1250-02	KZ - 1250-02	12	50	15.3	13	75
6 x 75	450	4	M12	KS - 0675-04	KZ - 0675-04	6	75	15.3	13	75
8 x 75	600	4	M12	KS - 0875-04	KZ - 0875-04	8	75	15.3	13	75
10 x 75	750	4	M12	KS - 1075-04	KZ - 1075-04	10	75	15.3	13	75
12 x 75	900	4	M12	KS - 1275-04	KZ - 1275-04	12	75	15.3	13	75

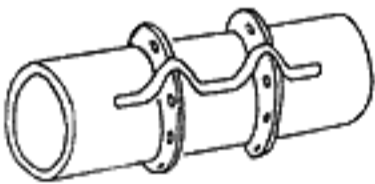


TYPE AG 201- 60 (Up to 60 mm² Cable)
 TYPE AG 201- 100 (Up to 100 mm² Cable)

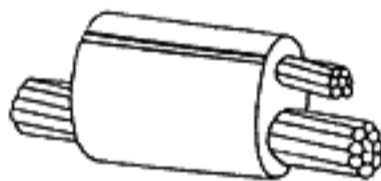


TYPE AG 401- 60 (Up to 60 mm² Cable)
 TYPE AG 401-100 (Up to 100 mm² Cable)
 TYPE AG 401- 250 (Up to 250 mm² Cable)

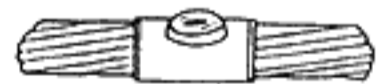
CATHODE PROTECTION CONNECTIONS



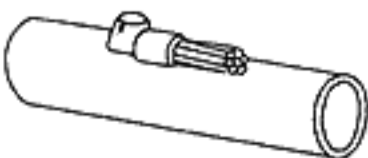
TYPE CJP



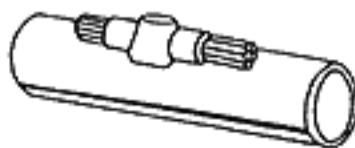
TYPE CWL



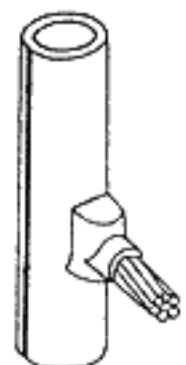
TYPE CWE



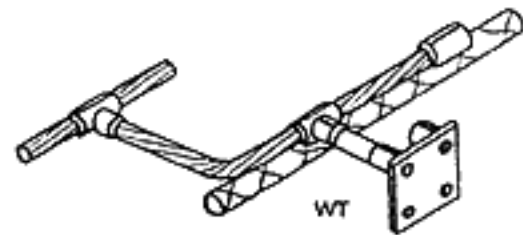
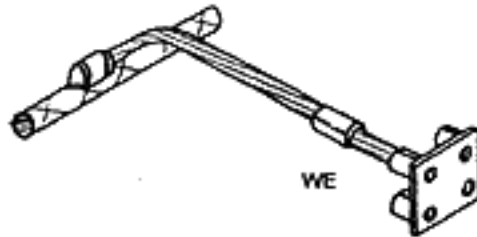
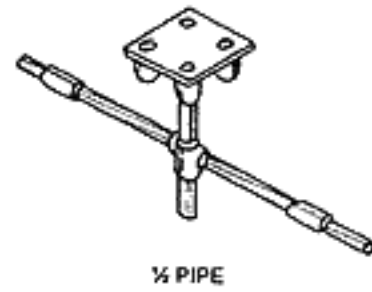
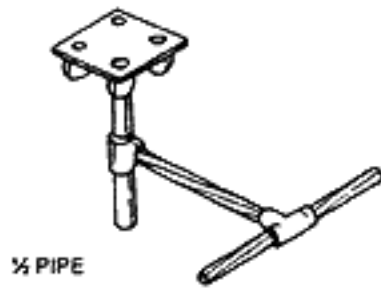
TYPE CSHEA



TYPE CSHTA

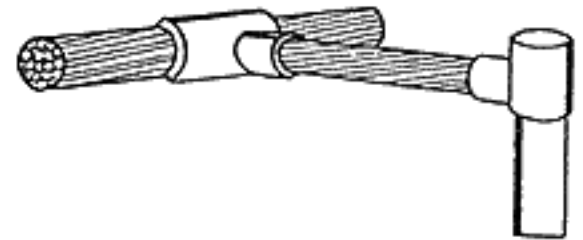
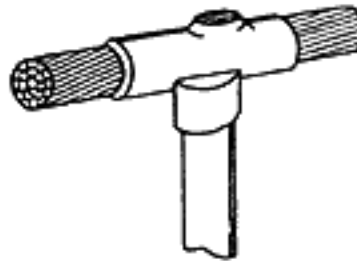
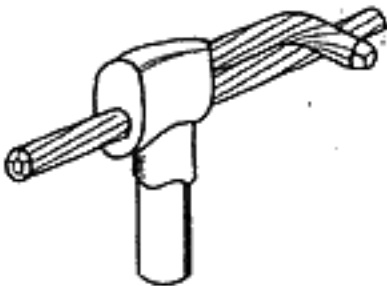


TYPE CSVES

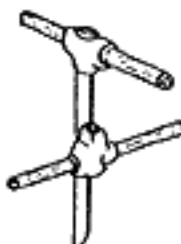
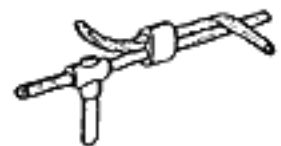
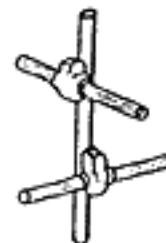
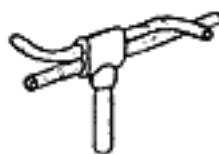
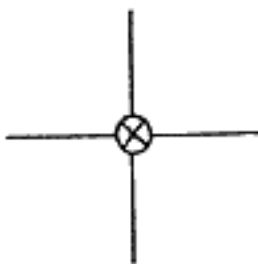


FORMING A TEE JOINT USING GEY

A VARIATION OF THE GET MOLD



FORMING A CROSS JOINT



WIRE TO WIRE CONNECTIONS

PERMAWELD	PAGE	BRAND "CA"	BRAND "TH" OR "FU"
WE	10	SS	CC-1
WT	10	TA	CC-2
WX	11	XA	CC-4
WXL	11	XB	CC-11
WP	11	PT	CC-7
WF	12	PG	CC-14
WL	12	PC	CC-6

WIRE TO GROUND ROD CONNECTIONS

PERMAWELD	PAGE	BRAND "CA"	BRAND "TH" OR "FU"
GEE	13	GR	CR-1
GET	14	GT	CR-2
GST	14	GY	CR-3
GEP	15	ND	CR-24
GEY	15	NC	CR-17

WIRE TO BUSBAR CONNECTIONS

PERMAWELD	PAGE	BRAND "CA"	BRAND "TH" OR "FU"
PK	26	LA	CB-1
PV	26	LP	CB3/CB7
PY	26	LE	CB-5
PT	26	LJ	CB-4

BUSBAR/STRAP TO BUSBAR CONNECTIONS

PERMAWELD	PAGE	BRAND "CA"	BRAND "TH" OR "FU"
BE	17	BA	BB-1
BEH	17	BB	BB-7
BTV	17	BQ	BB-3
BT	17	BM	BB-14
BX	17	EB	BB-41
BS	17	CH	BS-3

BUS BAR TO GROUND ROD CONNECTIONS

PERMAWELD	PAGE	BRAND "CA"	BRAND "TH" OR "FU"
GBN	18	CN	BR-1
GBT	18	CM	BR-2
GVE	18	GB	RR-1

WIRE TO REBAR CONNECTIONS

PERMAWELD	PAGE	BRAND "CA"	BRAND "TH" OR "FU"
RHEH	24	RR	CRE-1
RHXH	24	RD	CRE-4
RVXH	24	RC	CRE-3

WIRE TO RAIL CONNECTIONS

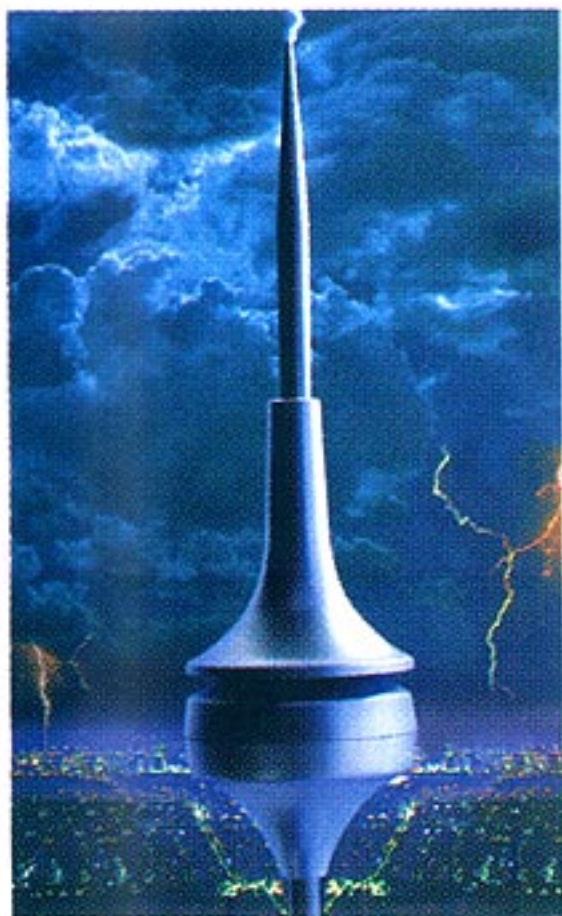
PERMAWELD	PAGE	BRAND "CA"	BRAND "TH" OR "FU"
ERB	27	JA	CX-7
ERW	27	ST	CX-4
ERT	27	---	---

WIRE TO STEEL PLATE OR PIPE CONNECTIONS

PERMAWELD	PAGE	BRAND "CA"	BRAND "TH" OR "FU"
SHEA	20	HA	CS-8
SHEA-D	22	HA	CS-32
SHEB	20	HS	CS-1
SHEB-D	22	HS	CS-1
SHTA	20	HC	CS-9
SHTA-D	22	HC	CS-9
SHTB	20	HT	CS-2
SHTB-D	22	HT	CS-34
SVES	20	VS	CS-3
SVES-D	22	VS	CS-3
SVED	20	VB OR VE	CS-23
SVED-D	22	VB OR VE	CS-23
SVEU	21	VC OR VF	CS-7
SVEU-D	23	VC OR VF	CS-7
SVTVA	21	VX	CS-4
SVTVB	23	VV	CS-4
SVTHA	21	VG	CS-6
SVTHA-D	23	VG	CS-6/CS-27
SVTHB	21	VT	CS-6
SVTHB-D	23	VT	CS-6
SVEH(L/R)	21	VL OR VN	CS-18
SVEH(L/R)-D	23	VL OR VN	CS-18

SPECIAL MOLDS FOR DIFFERENT REQUIREMENTS AVAILABLE UPON REQUEST

PERMAWELD



SENTINEL

Early Streamer Emission Lightning Conductor
NF C 17 102 standard
MADE IN FRANCE



SENTINEL

Conventional Lightning
Arresters



PERMAWELD
Chemical Moisture Grounding



PERMAWELD
Chemical Grounding Rod