

## PRODUCTS FOR UNDERGROUND RESIDENTIAL DISTRIBUTION SYSTEMS

For over 70 years, BURNDY® has pioneered and produced economical, dependable connectors and protective devices for urban underground distribution systems. This extensive experience has been applied to the development of equipment for low cost underground distribution systems for light commercial and residential areas.









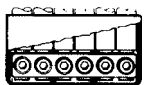





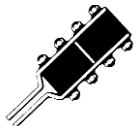
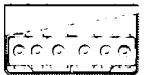

Increasing interest by home buyers and developers has created a need for URD components comparable in cost with those used in overhead systems.

Using connectors designed for other purposes, early URD installations were relatively expensive. Recognizing the need to reduce

installation costs BURNDY® developed a line of connectors specifically for URD.

These products are shown in this section. They are the result of a continuing search for new materials and more efficient production methods to bring down cost to meet the requirements of low cost underground construction.

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Throughout the catalog you will notice blue highlighted items. These are the most frequently ordered BURNDY® Products.

## UNDERGROUND SYSTEM CONNECTION AND PROTECTION

Nowhere in the distribution of electric power are the problems of connecting conductors and protecting them and equipment against the effects of fault currents as complex as in underground systems. For more than 70 years, BURNDY® engineers have worked closely with utilities to develop devices for connecting and protecting conductors and associated equipment in underground systems. These devices, with their inherent dependability and economy, have contributed to the rapid growth of underground systems throughout the country. To assist utility personnel in more effectively selecting and applying these devices, the engineering talent and experience of BURNDY® have been pooled to prepare this technical section, and the catalog information that follows.

The devices are designed for use in both radial and network type underground systems. Radial systems (Fig. 1) distribute power economically except in high load density areas where a high degree of service reliability is required.

Network systems (Fig. 2) have become standard for AC power distribution where load density is high and service continuity must be assured under nearly all conditions. The improved equipment and methods which are described in this catalog have been designed

to meet these secondary network system requirements and to reduce the cost of installation and maintenance.

### Early Problems in Underground Connections

Despite the many advantages of underground distribution, a major problem was that of making connections in congested manholes or junction boxes. The necessary procedure—soldering conductors, taping joints, and wiping lead covered cable—was so complex, that it demanded considerable skill and was time consuming and costly. This involved procedure had to be repeated each time a service was added to a main. When completed, the multiple-branch joints were excessively bulky and their electrical and mechanical performance suffered from the shortcomings of soldered connections.

The installation of underground distribution made greater strides as those early connection methods gave way to specialized products and techniques developed by BURNDY® at the request of, and in close collaboration with, engineers of leading utilities. These specialized connectors were easier and more economical to install, more compact, and more dependable electrically and mechanically.

For installation in conjunction with these connectors, BURNDY® also developed products to protect the secondary system from the effects of fault currents. The continuing improvement of these products, based on field experience and laboratory research, is contributing to even greater dependability and economy in underground distribution.

### Design Objectives in Connectors for Underground

While each of the principal types of equipment described in the following pages has been designed to meet particular service requirements, all have several basic objectives in common:

*Reliability:* To minimize outages and their serious consequences in the high load density areas served by underground systems.

*Ease of Installation:* Compact for easy installation in the confined space of a manhole and transformer vaults. Mechanical connections that eliminate difficult solder joints.

*Economy:* By reducing the time and skill required for installation of a dependable, insulated compact connection.

*Versatility:* For permitting easier changes, expansion, and additional services with a minimum of system shutdown.

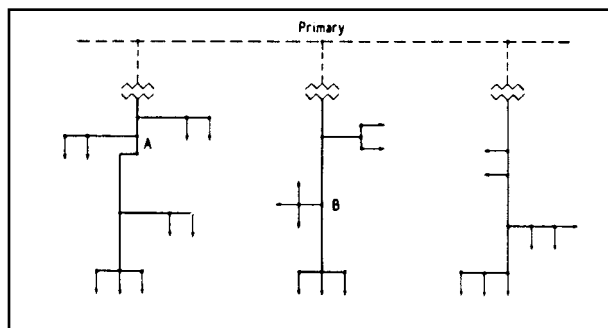


Figure 1 RADIAL SECONDARY DISTRIBUTION SYSTEM

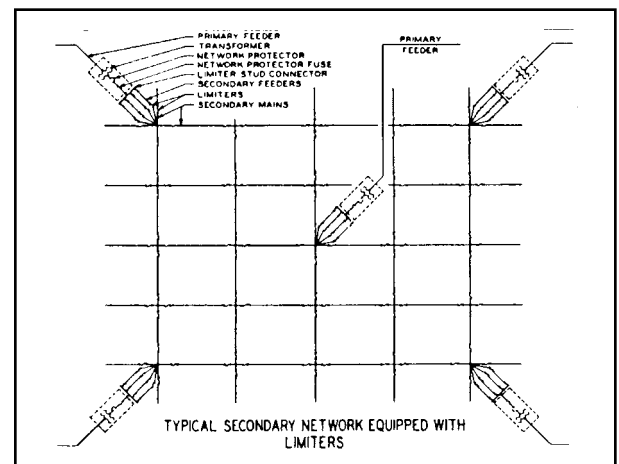


Figure 2

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## TYPES OF BURNDY® UNDERGROUND CONNECTORS AND ACCESSORIES

### The MOLE™ and HYCRAB™

The most popular of the engineered connectors developed specifically for underground manholes and transformer vaults are the MOLE™ and the HYCRAB™ that provide for multiple connections at a single junction point of main, feeder, and service cables. Pre-insulated to eliminate extensive taping, these connectors are essentially bus bars with several cable outlets: mechanical installation in the MOLE™, and compression installation in the HYCRAB™.

### Limiters and Fuses

To prevent “roasting” of cable insulation, resulting from fault current, BURNDY® has developed cable limiters that are inserted in each secondary cable at all junction points. Network protector fuses have been designed to back up the protector breaker in the event of a malfunction during a transformer or primary cable fault. By coordinating the time current characteristics of the fuse with those of the cable limiters, the possibility of limiter blowing on primary faults is eliminated, which in turn reduces the fault finding task. Also, limiter, fuse, and cable insulation characteristics must be carefully coordinated to assure isolating a fault on the secondary before it can cause extensive damage or interrupt service in other sections of the secondary system.

### High Capacity Limiter 200,000 Amperes at 600 Volts

The BURNDY® High Capacity Limiter is designed to economically protect electrical distribution systems from the destructive effect of high energy faults. The increasing number of 600 volt secondary network installations for industrial and commercial applications demand a cable limiter that can safely interrupt 200,000 amperes (symmetrical available) and one that will also completely coordinate with the higher voltage network protector fuses.

Available fault currents as high as 200,000 amperes rms at 600 volts across the fusible elements have been interrupted during tests on the BURNDY® High Capacity Limiter. The power factor during these tests was less than 15%, thereby imposing the most difficult clearing conditions. No external disturbance is experienced upon clearing fault currents from the “float” value to 200,000 amperes. The quartz filler absorbs the intense energy generated by interrupting the fault current. The quartz fuses into tubular fulgurites, with a high dielectric strength, and forms an insulating barrier between the melted link sections. This action prevents restrike of the internal arc. The rugged glass melamine housing provides a vessel that completely contains the developed energy.

The carefully developed time-current characteristics and rigid manufacturing tolerances assure proper coordination with the network protector fuses and the insulation damage characteristics of 4/0, 250, 350, 500 and 750 kcmil cable.

The High Capacity Limiter is available in four variations to accommodate a variety of installation practices. The Type HYS has cable sockets at both ends, which allow for indenting to the cable ends with a hydraulic BURNDY® HYPRESS™. The HYAO has an offset lug on one end which permits back-to-back mounting on bus bar.

For those installations where BURNDY® MOLEs™ are used for manhole junctions or transformer vault buses, the Type HYM permits a replaceable connection of the limiter directly to the MOLE outlet at one end and a compression cable connection at the other.

Modern electrical distribution systems require low cost protection to safeguard costly equipment and quickly isolate faults, so that the undamaged portions of the system may function normally. BURNDY® High Capacity Limiters assure positive, economical protection when installed in properly designed systems.

### Compression Connectors

BURNDY® HYDENT™ compression type connectors, and installation tools, have been designed for splicing and terminating copper as well as aluminum underground cables, in both primary and secondary circuits. BURNDY® tools and dies are custom designed to produce sound electrical, and mechanical joints on BURNDY® connectors. The use of BURNDY’s matched tools and connectors assures optimum results.

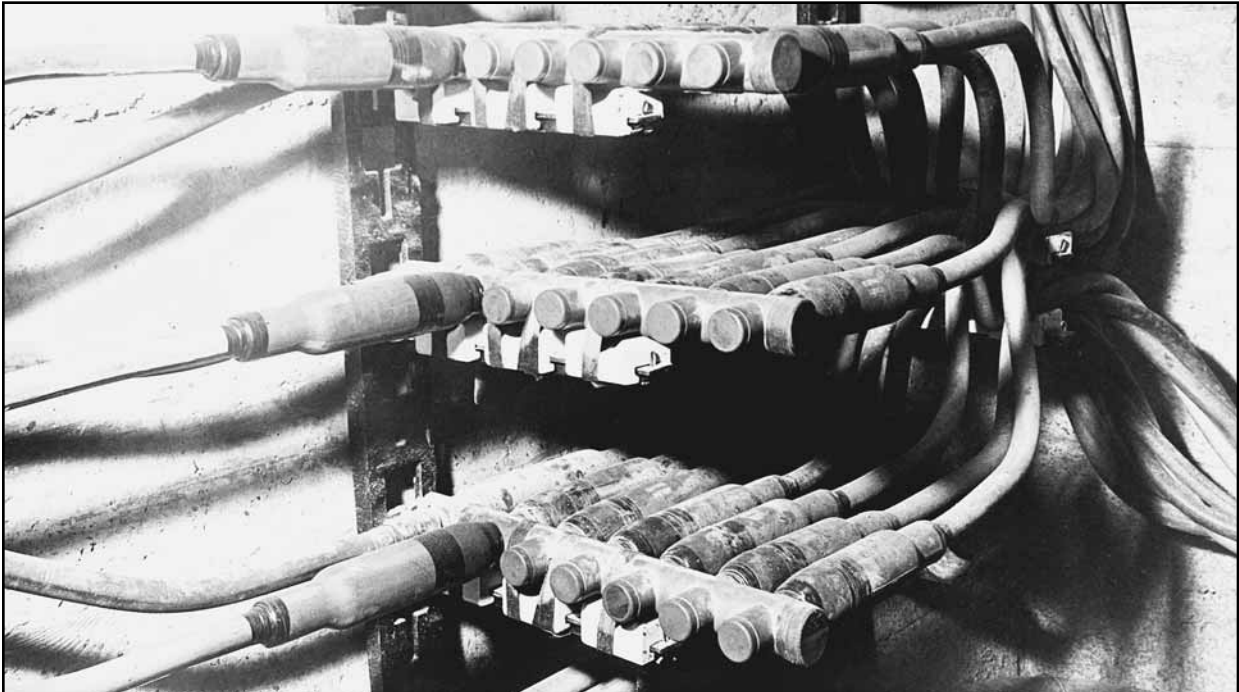
### Residential Underground

The trend toward improvement in neighborhood appearances, and the elimination of storm outages, tree trimming, etc., has created the need for residential underground distribution. To meet these needs, BURNDY® offers: Mechanical type pre-insulated multiconductor terminal connectors for submersible transformer locations; and compact multiconductor connectors for above ground transformer and enclosures. For service taps, BURNDY® offers: Pre-insulated, multiconductor compression and mechanical connectors; and a range taking compression connector for below grade service. Power pedestals for direct burial, above ground application, and conduit systems are offered. Residential Underground Fuse Block assembly with replaceable fuse for each service cable is also available.



Throughout the catalog you will notice blue highlighted items. These are the most frequently ordered BURNDY® Products.

## MULTIPLE OUTLET CONNECTORS



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### Connectors for Aluminum

For systems where aluminum is used, connectors especially designed for aluminum conductors are available in bolted and compression types: HYCRAB™, HYPLUG™, HYREDUCER™, and HYSOCKET. Aluminum conductors can be connected to standard MOLE™ connectors by using HYPLUG™ adapters.

### Multiple Outlet Connectors

The increasing use in modern electrical distribution systems of junction points where several relatively large cables must be connected, has brought about the development of BURNDY® MOLE™ line equipment to speed up and simplify the making of such connections. The modern tendency toward network systems not only in underground utility practice but also in industrial wiring, has greatly increased the number of multi-connection joints.

The BURNDY® MOLE™ and HYCRAB™ connectors are insulated bus bars with multiple connector outlets for service cables,

secondary mains, or equipment leads. In the MOLE™, clamping action secures conductors to the connector; in the HYCRAB™, connections are made by indenting with a compression tool. Both lines of insulated connectors offer the following basic advantages:

- 1. Ease and Economy of Installations:* The ease and reduction of time required to make and insulate dependable multi-connections greatly reduces the cost of installation. The compact design makes maximum use of space and provides for simplified racking.
- 2. Versatility for System Modification:* The MOLE™ and HYCRAB™ are designed to accommodate the standard secondary main and service cables, and permit easy modification or later additions. The numerous available connector configurations permit a wide variety of arrangements of cables and equipment connections. The 600 volt rating of the MOLE™ and HYCRAB™ insulation provides for efficient operation at all standard utilization voltages.

- 3. Efficient, Dependable Performance:* The MOLE™ and HYCRAB™ connectors assure permanent, high conductivity connections, good moisture seal, and insulation that resists the severest condition encountered in underground installations.

### MOLE™ and HYCRAB™ Insulation

The location in vaults and manholes often exposes these connectors to immersion in water, chemical, and other contaminants, as well as to heat from overload or fault currents. The MOLE™ and HYCRAB™ insulations provide electrical, mechanical, and thermal properties essential to assure the service continuity of underground distribution systems.

Recognizing the importance of proper connector insulation, BURNDY® established performance specifications exceeding those of 600 volt cable insulation.

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## MULTIPLE OUTLET CONNECTORS (Continued)

### MOLE™ and MOLE™ Accessories

The BURNDY® MOLE™ is a multi-cable connector that consists of a pre-insulated copper bus bar with threaded outlets that permit a minimum of two cables to be connected by means of a socket, nut, and cone assembly (Illustration A). The clamping action of the socket, nut and cone assembly on the cable develops high contact pressures that maintain joint conductivities greater than 100% of the continuous conductor. A compression socket that is threaded into the MOLE™ insert is also available. The MOLE™ design affords exceptional versatility in four ways:

1. MOLE™ outlets can be plugged-off until needed for the addition of cables.
2. Installed cables can be easily removed.
3. Cable sizes can be increased by changing the socket, nut and cone assembly.
4. The number of outlets may be increased by joining MOLE™ connectors with a MOLE™ coupler.

### Insulation

The copper bus bar insert is encased in a molded insulating jacket that eliminates crotch taping. The thickness of the jacket prevents any possibility of the insert weight to cause the insulation at the supports to flow away at the high temperatures of fault conditions.

### Ratings

MOLE™ connectors are rated at 1500, 2000, 2500, and 3000 amperes, based on the maximum current the insert cross-section can carry. Each outlet can carry the full rated current of the cable connected to it.

To avoid exceeding the insert rating, the cables should be arranged in such a manner that most current flows directly across the insert. (See Illustration B)

### Installation

Cables are connected to the MOLE™ by means of a socket, nut and compression cone assembly. The socket is threaded into the MOLE™ insert. The stripped cable end is inserted into nut and compression cone, and then into the socket where it is securely clamped by tightening the nut. The joint is then sealed watertight in one of three ways:

- Taping;
- MOLE™ Outlet Insulating Sleeves, sealed with a minimum of taping;
- or NOTAPE™ MOLE™ Sleeve, sealed to the cable and mole insulation by two non-corrosive hose clamps.

Tests under flooding and other adverse conditions demonstrate that such joints are impervious to water.

### Accessories

A socket, cone and nut assembly is screwed into each MOLE™ outlet to which a cable is to be connected. The socket has a tapered recess into which the clamping nut forces the cable and the compression cone. The cone is slotted to controlled widths and depths for maximum flexibility, and its inside surface is serrated for low contact resistance and high pullout strength.

A compression socket is available that threads directly into the MOLE™ outlet and provides a compression sleeve for connecting the cable with HYPRESS™ tools.

Plugs seal MOLE™ outlets not in use. The MOLE™ is delivered with one-fourth of its outlets sealed with plugs. Additional plugs may be ordered.

MOLE™ couplers facilitate system expansion by joining additional MOLE™ connectors to those already installed. Couplers are easily installed in end or side outlets of the MOLE™, and make connections that are effective both electrically and mechanically.



Illustration A

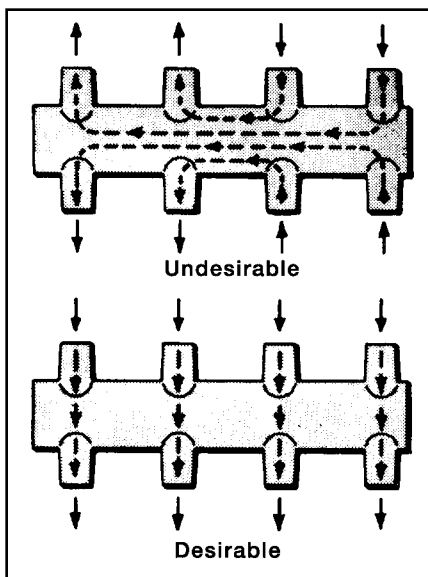


Illustration B

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## MULTIPLE OUTLET CONNECTORS (Continued)



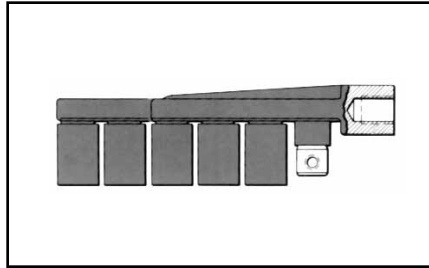
For details on Underground Network Products see Catalog UPC-08.

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**TYPE RDMD-28G**

**URD  
STUD MOLE™**

The RDMD-28G Stud MOLE™ is a submersible junction designed to accommodate a range of copper and aluminum conductors. The Stud MOLE™ is designed for use on transformers where a dead front secondary is required. It is insulated with molded EPT rubber. Mates with a 5/8"-11 copper stud. A jam nut is supplied with the MOLE™ to secure and lock it to the stud.



It is available with either four or six outlets. All outlets except one have factory installed removable sealing caps. Tap kits are ordered separately. REA listed.

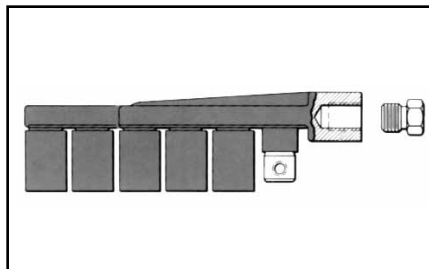
Also available without insulation and sealing caps.

Catalog Number	Number of Outlets	Insulated
RDMD4-28G3	4	Yes
RDMD6-28G3	6	Yes

**TYPE RDMD-2858D**

**STUD MOLE™**

The RDMD-2858D Stud MOLE™ is identical to the insulated RDMD-28G except an adapter is supplied, allowing MOLE™ to be removed from transformer stud without disconnecting the individual services.



Catalog Number	Number of Outlets	Insulated
RDMD4-2858D	4	Yes
RDMD6-2858D	6	Yes

**TYPE RDMD-28CR**

**RUBBER INSULATING BOOT**

The EPDM rubber force fit boot is designed to provide a completely dead-front and moisture tight installation when used with either the Type RDMD-28G3 or Type RDMD-2858D Stud MOLE™. Bushing end will seal any diameter from .875 to 1.125 inch.



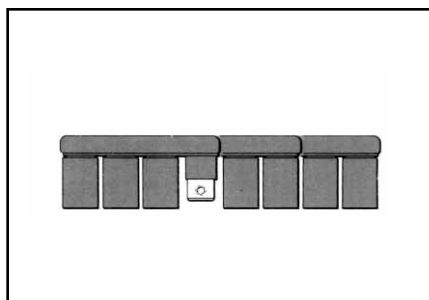
K-7

**TYPE RDM-28**

**URD MOLE™**

**FOR ALUMINUM OR COPPER**

Type RDM-28 MOLE™ is an economical, insulated, submersible service junction suitable for direct burial or for use in enclosures. Disconnectable joints allow additions of new services without disturbing previous installations. Taping is eliminated, heat-shrink or force-fit rubber sleeves insulate each joint. Rubber is used to insulate the MOLE™ body. Removable sealing covers are supplied on all



outlets but two. REA listed Tap Kits, including HYLUG™, hardware and sleeve are ordered separately.

Catalog Number	Number of Outlets
RDM4-28	4
RDM6-28	6
RDM8-28	8

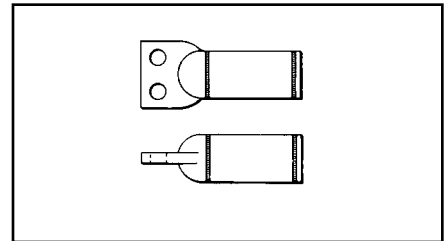
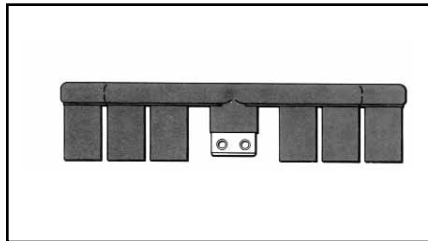
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## TYPE RDM-28T

### URD MOLE™

FOR ALUMINUM AND COPPER

The RDM-28T MOLE™ is available with five or seven outlets. The single hole outlets are the same size as the RDM-28 series and accommodate the same RYA-UC or RYA-UCR tap kits. The larger two-hole outlet accommodates the 500 or 350 kcmil copper cable secondary supplied with many sub-surface transformers. These cables are extended to a junction point where secondary mains or services are connected. Tin-plated copper RYA-C-2 tap kits are used to join the 500 or 350 kcmil copper secondaries to the RDM-28T MOLE™.



Catalog Number	Number of Outlets	
	12 Sol. - 350	350 - 500
RDM5-28T	4	1
RDM7-28T	6	1

Copper Conductor	Catalog Number		DIE INDEX	Tools, Die Set, Catalog No. & (No. of Crimps)	
	Heat Shrink	Force Fit		Y34A	Y35* Series Y750, 739
350	RYA31C-2	RYA31CR-2	20	A34R (4)	U34RT (4)
500	RYA34C-2	RYA34CR-2			

\* Y35 U-Dies with adapter PT6515 can also be used in Y45 series HYPRESSES™. Same number of crimps as Y35.

## TYPES RYA-UC, RYA-AC

### MOLE™ TAP KITS

FOR ALUMINUM OR COPPER FOR USE WITH TYPE RDM-28 URD MOLE™

The kit consists of: Universal HYLUG™, mounting hardware and heat-shrink sleeve. The HYLUG™ is pre-filled with PENETROX™ joint compound and sealed. Installed with common installation tools, three die sets install a range of 4 str.- 350 kcmil. The heat-shrink sleeve is lined with a mastic material, providing a positive seal. Installed with standard propane torch, or 500°F electric heat gun. Acetylene heat is too intense and is not recommended.



TYPE RYA-UC, RYA-AC



TYPE RYA-UCR, RYA-ACR

## TYPES RYA-UCR, RYA-ACR

The kit consists of: Universal HYLUG™, mounting hardware and pre-lubricated force-fit rubber sleeve. The HYLUG™ is pre-filled with PENETROX™ joint compound and sealed. Installed with common installation tools, three die sets install a range of 4 str.- 350MCM. The rubber sleeve has internal sealing rings that provide a positive moisture seal by exerting circumferential force on cable and MOLE™ insulation. Pre-lubricating sleeve makes installation easier. REA listed. **No trimming required.**

Conductor		Catalog Number			EEI Die Index	Die Index	Tools, Die Set Catalog Number, & (Number of Crimps)			
		Heat Shrink		Force Fit			MD6 Series	Y39, Y750 Series	OUR840	
		Complete Set	Shrink Sleeve Only	Complete Set						
2 Sol. - 4 Str.	2 Sol. - 4 Str. 4 Str. Comp.	RYA4UC	RYAC25	RYA4UCR	8A	BG or 5/8 - 1 or 243	W-BG (1)	U-BG (1)	XBG (3)	
2 Str. - 1/0 Sol.	2 Str. - 1/0 Sol. 2-1 Str. Comp.	RYA2UC		RYA2UCR			BG3 or W243	UK58-IT (3)	U243 (1)	XNBG (2)
1/0 Str.	1/0 Str. - 2/0 Sol. 1/0 Str. Comp.	RYA25UC		RYA25UCR						
	2 Sol. EC-0	RYA2WAC		RYA2WACR			BG (5)	BG (5)	—	XBG (5)
	1/0 Sol. EC-0	RYA75AC		RYA75ACR			—	—	UK58-IT (5)	XNBG (3)
2/0 Str.	2/0 Str. 2/0 Str. Comp.	RYA26UC	RYAC31	RYA26UCR	**	249 or 840	W249 (3)	U249 (2)*	X249 (6)	
3/0 Str.	3/0 Str. 3/0 Str. Comp. 4/0 Sol. EC-0**	RYA27UC		RYA27UCR			WK840 (5)	UK840T (3)	X840 (5)	
4/0 Str.	4/0 Str. 4/0 Str. - 250 Comp.	RYA28UC		RYA28UCR				W249 (4)	U249 (2)	X249 (8)
250 MCM	250 250 Comp.	RYA29UC		RYA29UCR				WK840 (7)	UK840T (4)	X840 (7)
—	300 - 350 300 - 350 Comp.	RYA31AC		RYA31ACR	13A	299 or 655 or 705	U31ART (2)	U655 (3)	U705 (2)	

\* Overlap Crimps.  
\*\* Do not use EEI Die. (11A) to install 4/0 Sol. EC-0.  
**NOTE:** Standard mounting hardware is 3/8" button head socket cap screw with captive conical washer. For HEX HEAD bolt with captive conical washer add "HEX" suffix.

**NOTE:** Example: RYA4UCR-HEX. For HEX HEAD bolt and captive flat washer add suffix "HEX1". For HEX HEAD bolt and non-captive flat washer add suffix "HEX2". For HEX HEAD bolt and non-captive conical washer add suffix "HEX3". For Stainless Steel HEX HEAD bolt add "HEX355" suffix.

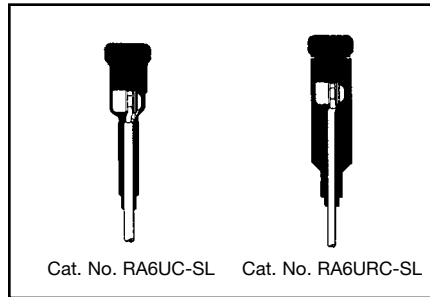
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**TYPES RA6UC-SL,  
RA6UCR-SL**

**URD STREET LIGHTING  
TAP KIT**

FOR ALUMINUM OR COPPER

URD tap kit for making street lighting taps from URD MOLE™ types RDM-28 and RDM-28T. Each kit accommodates 6 str. - 12 sol. Kits include connector, mounting hardware and insulating sleeve.



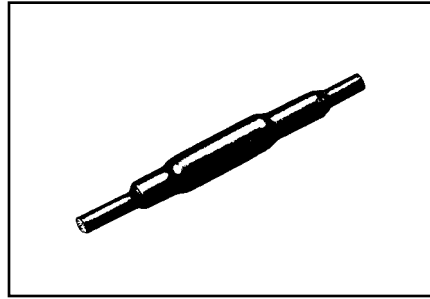
Conductor	Catalog Number	
	Heat Shrink	Force Fit
6 Str. - 12 Sol.	RA6UC-SL	RA6UCR-SL

## TYPE YS-CG

### URD INSULATED SPLICE KIT

FOR ALL ALUMINUM OR COPPER/ALUMINUM COMBINATIONS

Type YS-CG URD insulated splice kit consists of a standard YSU or YSD LINKIT™ and a heat-shrink sleeve. Used to splice URD secondary lines up to 600 volts. It is installed with common installation tools. Heat-shrink sleeve is installed with standard propane torch, or 500° F electric heat gun. Acetylene is not recommended.



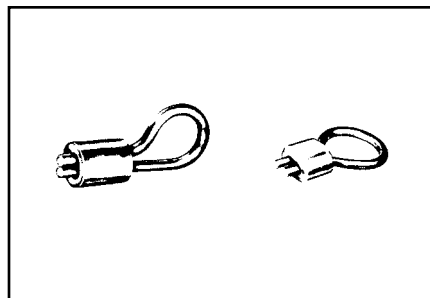
Conductor			Catalog Number		Die Index	Tools, Die Set Catalog No., & (No. of Crimps)		
Both Sides			Complete Splice Kit	Heat Shrink Sleeve		MD6 Series	Y34A	Y35 Series
Aluminum	ACSR	Copper*						
1-2 Str.	2 (6-1, 7-1)	1-2 Str.	YS2UCGI	RYAC25	BG 243	BG (3) W-BG (1)** W243 (2)	— A243 (1)	U-BG (1)** U243 (1)
1/0 Str. 1/0 Comp.	1/0 (6-1)	1/0 Str.	YS25UCGI					
2/0 Str. 2/0 Comp.	2/0 (6-1)	2/0 Str.	YS26UCGI	RYAC31-1	249/840	W249 (4) W-K840 (7)	A249 (2) —	U249 (2) U-K840T (4)
3/0 Str. 3/0 Comp.	3/0 (6-1)	3/0 Str.	YS27UCGI					
4/0 Str. 4/0 Comp.	4/0 (6-1)	4/0 Str.	YS28UCGI					
350 350 Comp.	—	350	YS31ACGI	RYAC31	299/705	—	—	U299 (2) U705 (1)

\* Use to join copper to aluminum or ACSR, not copper to copper.

\*\* Multiple crimp die set, makes more than one crimp per compression.

## Y-LOK FOR LOCKING ENCLOSURES

Assembly consists of aluminum-clad steel wire loop and a compression type aluminum connector. Installed with BG groove of MD6 or OUR840 Compression Tools. Can also be installed with 5/8 or 5/8-1 grooves.



### J1592 J1207

Compression Y-LOK installed with BG or 5/8 groove

Catalog Number	Installation Tooling		L	C	D
	D1D6, OUR840	Y35, Y750, Y46			
J1207	WBG	UBG	2.28	.75	1.00
J1592	XBG	UBG	2.31	.75	.75

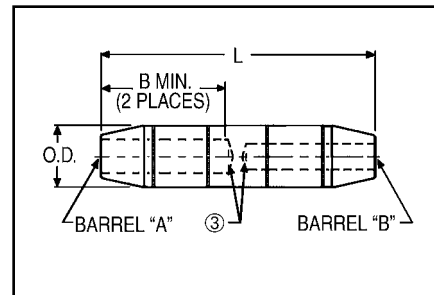
Throughout the catalog you will notice blue highlighted items. These are the most frequently ordered BURNDY® Products.

**TYPE YRB-U**

**HYREDUCER™ SPLICE**

**FOR ALUMINUM-TO-ALUMINUM AND ALUMINUM-TO-COPPER**

Type YRB-U splice is designed for use within underground systems. Aluminum splices are tin-plated and recommended for use on Aluminum-to-Aluminum and Aluminum-to-Copper cables. All splices have solid center stop for use with oil filled and non-oil filled cables. The Outside Diameter is held constant to minimize installation dies and connectors are prefilled with PENETROX™. Rated up to 35 kV.



Catalog Number	Conductor Range		Dimensions		O.D.	Wire Strip Length		Die Number	Color Code
	Barrel "A" Copper & Aluminum	Barrel "B" Copper & Aluminum	B Min.	L		Barrel "A"	Barrel "B"		
YRB2U3TTN	#2 (.292 Dia.) 7 Str.	#3 (.260 Dia.) 7 Str.	1.35 [34]	3.25 [83]	.65 [17]	1-3/4"	1-3/4"	296	Tan
YRB1CU2TTN	#1 (.332 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.	#2 (.292 Dia.) 7 Str.							
YRB1CU1TTN	#1 (.332 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.	#1 (.332 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.							
YRB25U3TTN	1/0 (.373 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.	#3 (.260 Dia.) 7 Str.							
YRB25U2TTN	1/0 (.373 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.	#2 (.292 Dia.) 7 Str.							
YRB25U25TTN	1/0 (.373 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.	1/0 (.373 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.							
YRB27U25TW	3/0 (.470 Dia.) 19 Str. or 3/0 CMPCT (.423 Dia.) 19 Str.	1/0 (.373 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.	1.53 [39]	3.69 [94]	.85 [22]	1-1/2"	1-1/2"	298	White
YRB28U3TW	4/0 (.528 Dia.) 19 Str. or 4/0 CMPCT (.475 Dia.) 19 Str.	#3 (.260 Dia.) 7 Str.							
YRB28U1TW	4/0 (.528 Dia.) 19 Str. or 4/0 CMPCT (.475 Dia.) 19 Str.	#1 (.332 Dia.) 19 Str. or 1/0 CMPCT (.299 Dia.) 7 Str.							
YRB28U25TW	4/0 (.528 Dia.) 19 Str. or 4/0 CMPCT (.475 Dia.) 19 Str.	1/0 (.373 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.							
YRB28U26TW	4/0 (.528 Dia.) 19 Str. or 4/0 CMPCT (.475 Dia.) 19 Str.	2/0 (.419 Dia.) 19 Str. or 2/0 CMPCT (.376 Dia.) 19 Str.							
YRB28U28TW	4/0 (.528 Dia.) 19 Str. or 4/0 CMPCT (.475 Dia.) 19 Str.	4/0 (.528 Dia.) 19 Str. or 4/0 CMPCT (.475 Dia.) 19 Str.							
YRB31U25TW	350 kcmil (.681 Dia.) 37 Str. or 350 kcmil CMPCT (.616 Dia.) 19 Str. AL; 37 Str. AL & CU	1/0 (.373 Dia.) 19 Str. or 1/0 CMPCT (.336 Dia.) 19 Str.	2.34 [59]	5.43 [138]	1.11 [28]	2-1/4"	2-1/4"	299	Brown
YRB31U28TW	350 kcmil (.681 Dia.) 37 Str. or 350 kcmil (.616 Dia.) 19 Str. AL; 37 Str. AL & CU	4/0 (.528 Dia.) 19 Str. or 250 kcmil CMPCT (.520 Dia.) 37 Str.							
YRB31U31TW	350 kcmil (.681 Dia.) 37 Str. or 350 kcmil CMPCT (.616 Dia.) 19 Str. AL; 37 Str. AL & CU	350 kcmil (.681 Dia.) 37 Str. or 350 kcmil CMPCT (.616 Dia.) 19 Str. AL; 37 Str. AL & CU							

- 1 Material: Aluminum.
- 2 Finish: Electro-tin plated.
- ③ Barrels are partially filled with PENETROX™ and sealed.
- 4 Scratch brushing of all conductors before making installation is recommended.
- 5 Not for use with Copper-to-Copper applications.
- 6 Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter, unless otherwise noted, and are for reference only.

- ⑦ Catalog number PT6515 Adaptor is required to use "U" dies in Y45 series tools.
- ⑧ Catalog number PUADP-1 Adaptor is required to use "U" dies in Y46 series tools.
- 9 On MY29-3 HYTOOL™ use alum. Index plate settings as follows, for 1/0 conductor use 1/0 setting. For conductor smaller than 1/0 size use 2/0 setting.

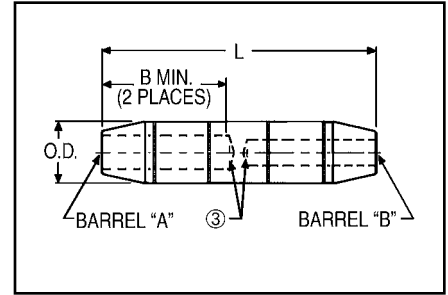
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**TYPE YRB-U**

**HYREDUCER™ SPLICE**

(Continued)

FOR ALUMINUM-TO-ALUMINUM  
AND ALUMINUM-TO-COPPER



Catalog Number	Conductor Range		Dimensions		O.D.	Wire Strip Length		Die Number	Color Code
	Barrel "A" Copper & Aluminum	Barrel "B" Copper & Aluminum	B Min.	L		Barrel "A"	Barrel "B"		
YRB34U25TW	500 kcmil (.813 Dia.) 37 Str. or 500 kcmil CMPCT (.736 Dia.) 19 Str. AL; 37 Str. AL & CU	1/0 (.373 Dia.) 19 Str.	2.70 [69]	6.00 [152]	1.31 [33]	1-1/8"	1-1/8"	300	Pink
YRB34U28TW	500 kcmil (.813 Dia.) 37 Str. or 500 kcmil CMPCT (.736 Dia.) 19 Str. AL; 37 Str. AL & CU	4/0 (.528 Dia.) 19 Str. or 4/0 CMPCT (.475 Dia.) 19 Str.							
YRB34U29TW	500 kcmil (.813 Dia.) 37 Str. or 500 kcmil CMPCT (.736 Dia.) 19 Str. AL; 37 Str. AL & CU	250 kcmil (.575 Dia.) 37 Str.							
YRB34U30TW	500 kcmil (.813 Dia.) 37 Str. or 500 kcmil CMPCT (.736 Dia.) 19 Str. AL; 37 Str. AL & CU	300 kcmil (.630 Dia.) 37 Str.							
YRB34U31TW	500 kcmil (.813 Dia.) 37 Str. or 500 kcmil CMPCT (.736 Dia.) 19 Str. AL; 37 Str. AL & CU	350 kcmil (.681 Dia.) 37 Str. 350 kcmil CMPCT (.616 Dia.) 19 Str. AL; 37 Str. AL & CU							
YRB34U34TW	500 kcmil (.813 Dia.) 37 Str. or 500 kcmil CMPCT (.736 Dia.) 19 Str. AL; 37 Str. AL & CU	500 kcmil (.813 Dia.) 37 Str. or 500 kcmil CMPCT (.736 Dia.) 19 Str. AL; 37 Str. AL & CU							
YRB39U31TW	750 kcmil (.998 Dia.) 61 Str. or 750 kcmil CMPCT (.908 Dia.) 61 Str.	350 kcmil (.681 Dia.) 37 Str. or 350 kcmil CMPCT (.616 Dia.) 19 Str. AL; 37 Str. AL & CU	2.87 [73]	6.74 [171]	1.46 [37]	3"	3-11/16"	936	Yellow
YRB39U34TW	750 kcmil (.998 Dia.) 61 Str. or 750 kcmil CMPCT (.908 Dia.) 61 Str.	500 kcmil (.813 Dia.) 37 Str. or 500 kcmil CMPCT (.736 Dia.) 19 Str. AL; 37 Str. AL & CU							
YRB39U39TW	750 kcmil (.998 Dia.) 61 Str. or 750 kcmil CMPCT (.908 Dia.) 61 Str.	750 kcmil (.998 Dia.) 61 Str. or 750 kcmil CMPCT (.908 Dia.) 61 Str.							
YRB44U31TW	1000 kcmil (1.152 Dia.) 61 Str.	350 kcmil (.681 Dia.) 37 Str. or 350 kcmil CMPCT (.616 Dia.) 19 Str. AL; 37 Str. AL & CU							
YRB44U34TW	1000 kcmil (1.152 Dia.) 61 Str.	500 kcmil (.813 Dia.) 37 Str. or 500 kcmil CMPCT (.736 Dia.) 19 Str. AL; 37 Str. AL & CU							
YRB44U39TW	1000 kcmil (1.152 Dia.) 61 Str.	750 kcmil (.998 Dia.) 61 Str. or 750 kcmil CMPCT (.908 Dia.) 61 Str.							
YRB44U44TW	1000 kcmil (1.152 Dia.) 61 Str.	1000 kcmil (1.152 Dia.) 61 Str.							

1 Material: Aluminum.  
 2 Finish: Electro-tin plated.  
 ③ Barrels are partially filled with PENETROX™ and sealed.  
 4 Scratch brushing of all conductors before making installation is recommended.  
 5 Not for use with Copper-to-Copper applications.  
 6 Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter, unless otherwise noted, and are for reference only.

⑦ Catalog number PT6515 Adaptor is required to use "U" dies in Y45 series tools.  
 ⑧ Catalog number PUADP-1 Adaptor is required to use "U" dies in Y46 series tools.  
 9 On MY29-3 HYTOOL™ use alum. Index plate settings as follows, for 1/0 conductor use 1/0 setting. For conductor smaller than 1/0 size use 2/0 setting.

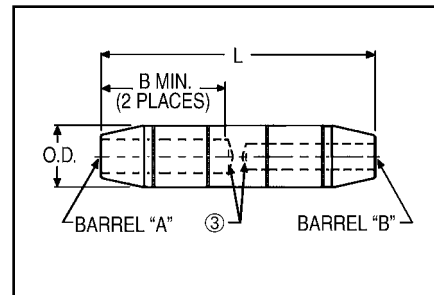
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K-12

**TYPE YRB-U**

**HYREDUCER™ SPLICE  
(Continued)**

FOR ALUMINUM-TO-ALUMINUM  
AND ALUMINUM-TO-COPPER



Installation (Number of Crimps per End)									
Color Code	Die Index	Mechanical Ratchet		Hydraulic					⑤ Dieless (# of Crimps) Mechanical: MY29-3 (1) MY29-11 (1) Hydraulic: Y644M (1) PAT644-18V (1)
		OUR840	MD6, MD7	Y35, Y39, Y750 BAT35, BAT750, PAT750	⑧ Y46	⑦ Y45	Y48B	Y60BHU	
Tan	296	—	—	U25ART (1)	U25ART (1)	U25ART (1)	C25AR (1)	—	MY29-3 (1) MY29-11 (1)
White	298	—	—	U28ART (2)	U28ART (2)	U28ART (2)	C28AR (2)	—	Y644M (1) PAT644-18V (1)
Brown	299	—	—	U31ART Overlap Crimp	U31ART Overlap Crimp	U31ART Overlap Crimp	C31AR (1)	L31ART (1)	Y644M (1) PAT644-18V (1)
Pink	300	—	—	U34ART Overlap Crimp	U34ART Overlap Crimp	U34ART Overlap Crimp	C34AR (1)	L34ART	—
Yellow	936	—	—	U39ART-2 (4)	U39ART-2 (4)	U39ART-2 (4)	C39AR (2)	L39ART (2)	—

1 Material: Aluminum.

2 Finish: Electro-tin plated.

③ Barrels are partially filled with PENETROX™ and sealed.

4 Scratch brushing of all conductors before making installation is recommended.

⑤ Not for use with Copper-to-Copper applications.

6 Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter, unless otherwise noted, and are for reference only.

⑦ Catalog number PT6515 Adaptor is required to use "U" dies in Y45 series tools.

⑧ Catalog number PUADP-1 Adaptor is required to use "U" dies in Y46 series tools.

9 On MY29-3 HYTOOL™ use alum. Index plate settings as follows, for 1/0 conductor use 1/0 setting. For conductor smaller than 1/0 size use 2/0 setting.

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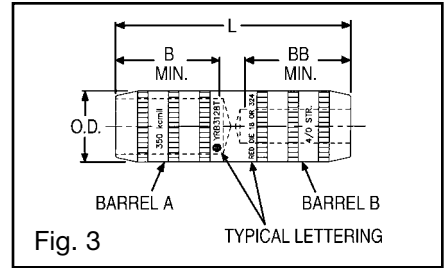
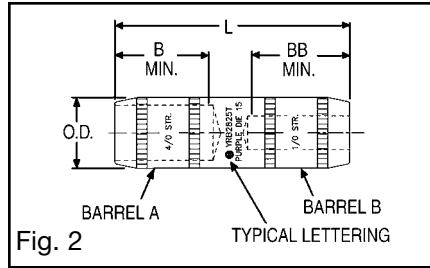
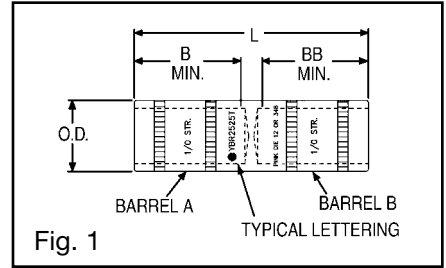
## TYPE YRB-T

### HYREDUCER™ SPLICE FOR COPPER-TO-COPPER

Type YRB-T splice is designed for use within underground systems. Copper splices are tapered and recommended for use on copper-to-copper cables.

All splices have solid center stops for use with oil filled and non-oil filled cables.

The Outside Diameter is held constant to minimize installation dies. Rated up to 35 kV.



Catalog ② Number ⑦	Figure No.	Conductor Size		Dimensions			
		Barrel "A"	Barrel "B"	B Min.	BB Min.	L	O.D.
YRB2825T	2	4/0 (.528)	1/0 (.372)	1.16 [29]	1.16 [29]	2.84 [73]	.69 [18]
YRB3428T	3	500 kcmil (.813)	4/0 (.528)	1.73 [44]	1.73 [44]	4.50 [114]	1.06 [27]

① Material: Copper.

② For Tin-Plating, add suffix "TN" to the Catalog Number (ex.: YRB2825TN). For Hot Tin dipped add suffix "W" to the catalog number (ex.: YRB2825TW).

③ Catalog Number PT6515 Adaptor is required to use "U" dies in Y45 series tools.

④ Catalog Number PUADP-1 is required to use "U" dies in Y46 series tools.

⑤ Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter, unless otherwise specified, and are for reference only.

⑥ For use by customers that have this HYPRESS™. No new Y34 HYPRESS™ tools are being processed.

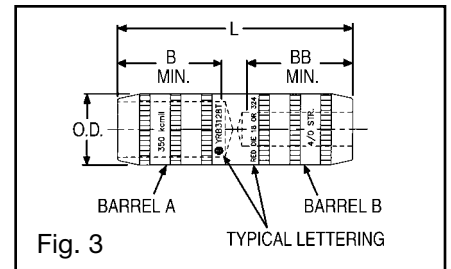
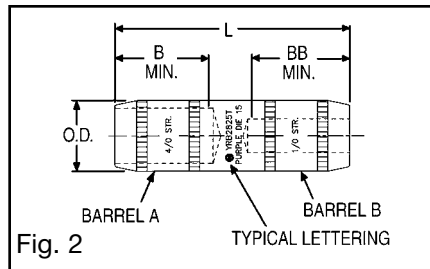
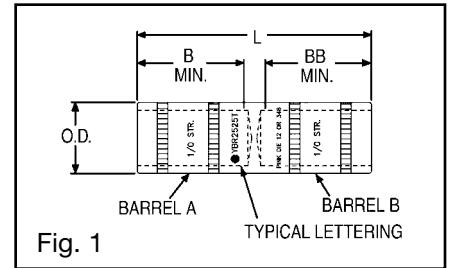
⑦ Suffix "TN" and "W" will not be stamped on part.

**TYPE YRB-T**

**HYREDUCER™ SPLICE**

(Continued)

FOR COPPER-TO-COPPER



Catalog Number ⑦	Color Code	Installation Tooling (Number of Crimps)											Dieless (# of Crimps)	Wire Strip Length	
		Die Information		Mechanical				Hydraulic							
		Die Index	Type	OUR840	MD7 MD7-34R	MD6	Y34A ⑥	Y35, Y39, Y750, BAT35, BAT750, PAT750	BCT500, Y500CT	Y46 ④	Y45 ③	Y48B			Y60BHU
YRB2825T	Purple	Die 15	Purple Die Set	X28VT (4) X28RT (4)	X28VT (4)	X28RT (4)	—	U28RT (1)	—	U28RT (1)	—	C28R (1)	L29ART (1)	Hydraulic: Y644M (1)	1-7/32"
YRB3428T	Brown	Die 20 or 299	Brown Die Set	—	—	—	—	U34RT (2) U31ART (2)	W34VT (2) W34RT (2)	U34RT (2) U31ART (2)	U34RT (2) U31ART (2)	C34R (1) C31AR (1)	L34RT (1)	BAT644M (1) PAT644M (1)	1-13/16"

1 Material: Copper.

② For Tin-Plating, add suffix "TN" to the Catalog Number (ex.: YRB2825TN). For Hot Tin dipped add suffix "W" to the catalog number (ex.: YRB2825TW).

③ Catalog Number PT6515 Adaptor is required to use "U" dies in Y45 series tools.

④ Catalog Number PUADP-1 is required to use "U" dies in Y46 series tools.

5 Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter, unless otherwise specified, and are for reference only.

⑥ For use by customers that have this HYPRESS™. No new Y34 HYPRESS™ tools are being processed.

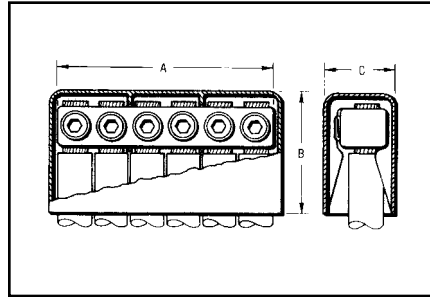
⑦ Suffix "TN" and "W" will not be stamped on part.

## TYPE K-P-C

### URD SERVICE TAP

#### COPPER CONDUCTORS

These compact, wide-range-taking, multiple outlet connectors are made of high conductivity copper alloy. Spherical point Allen set screws provide even clamping forces on conductors up to 4/0 Str. Each connector is supplied with an insulating cover. The mechanical clamping elements allow individual cables to be disconnected without disturbing adjacent connections.



Conductor	Catalog Number			Number of Outlets	A	B	C
	Complete Assembly	Connector Only	Cover Only				
6 Str. - 4/0 Str.	<b>K6P28C</b>	<b>K6P28</b>	<b>K-PC28</b>	6	5-1/8	2-3/4	1-5/8

## COMPRESSION SERVICE TAPS AND TRANSFORMER TERMINALS

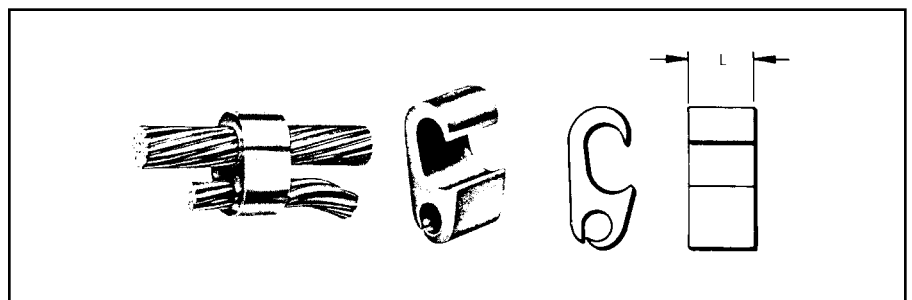
Where compression-type service taps are required, the wide-range-taking, figure "6" shaped, tap connectors are recommended. They can be gripped in a HYPRESS™ and slipped over the secondary main for easy installation. For above-grade installation, commercially available insulating tubes are often used to cover a series of these taps on each main cable stub. Separation of run and tap cables simplifies taping.

## TYPE YPC-C

### TIN-PLATED COPPER CRIMPIT™

#### FOR COPPER CONDUCTORS

Made of tin-plated pure copper this connector is recommended for copper service taps in above-grade enclosures or for direct burial. The streamlined design facilitates taping. The plating eliminates reaction with insulators.



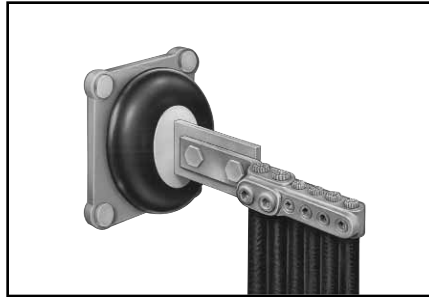
Conductor		Catalog Number	L	Die Index	Installation Tooling	
Run	Tap				Y35, Y750, Y46 HYPRESS™	Die Cat. No.
2/0 Str. - 250	4 Str. - 2/0 Str	<b>YPC29C26</b>	1.00	D3	U-D3	(1)

\* Y35 HYPRESS™ U-Dies with adapter PUADP-1 can also be used with Y46. Same number of crimps as Y35.

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## TYPES K6B AND K33B

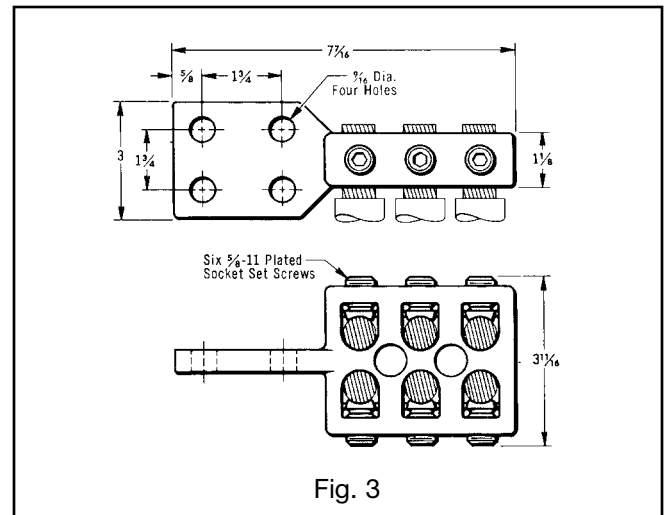
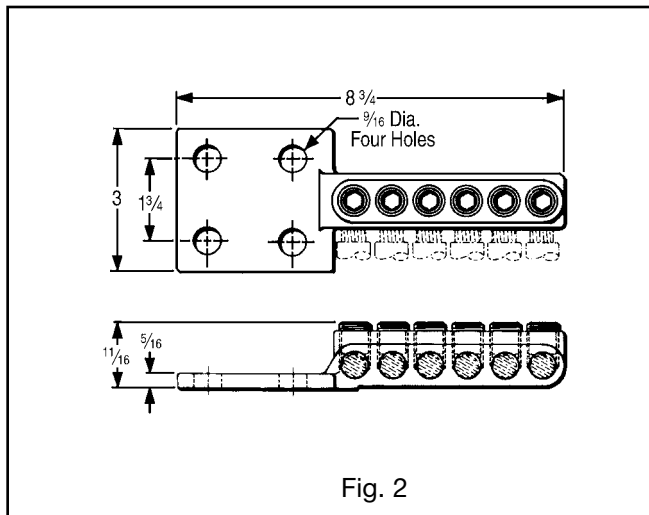
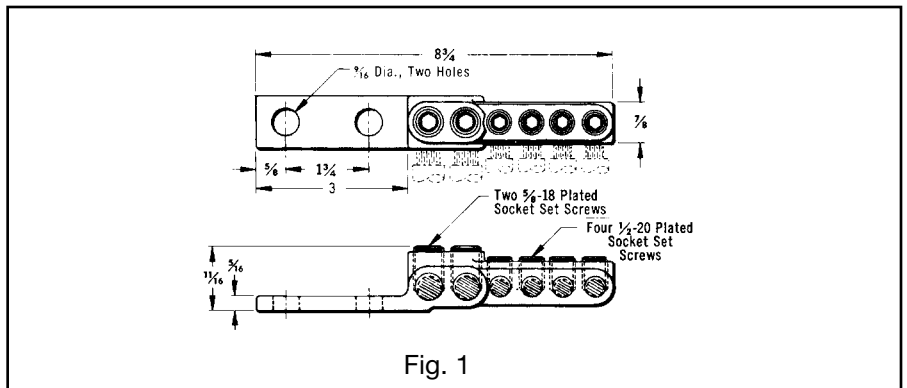
### URD TRANSFORMER TERMINALS FOR COPPER CONDUCTORS



These terminals are companion connectors of the various types of DOME-TAP, and possess the same advantages of wide conductor range and compactness. These features simplify cable terminations in the secondary compartments of pad-mounted transformers. The design also permits individual cables to be disconnected without disturbing adjacent joints.

Made of a high conductivity copper alloy, these compact range-taking connectors provide for connecting up to six copper cables at the transformer terminals. The outlets are equipped with spherical point, tin-plated brass socket set-screws to provide even clamping forces on the conductors throughout the cable range.

Where cable sizes exceed 4/0 STR., a pressure bar is added to assure optimum performance.



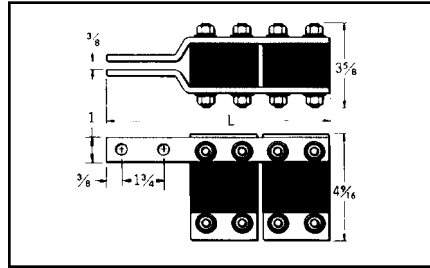
Conductor	Catalog Number	Fig. No.	NEMA Tongue
Two Outlets: #6 - 4/0	<b>K6B2826-2N</b>	1	2-Hole
Four Outlets: 6 Str. - 2/0	<b>K6B28-4N</b>	2	4-Hole
Six Outlets: 6 Str. - 4/0 Str.	<b>K6B28-4N</b>	2	4-Hole
Six Outlets: 4/0 Str. - 500	<b>K33B34-4N</b>	3	4-Hole

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## TYPE F-A

### URD FUSED TRANSFORMER TERMINALS

These Transformer Tap assemblies bolt directly to the secondary terminal pad. They provide for up to eight cables to be fused directly at the secondary terminals. This may be all service taps or combinations of secondary mains and service taps.



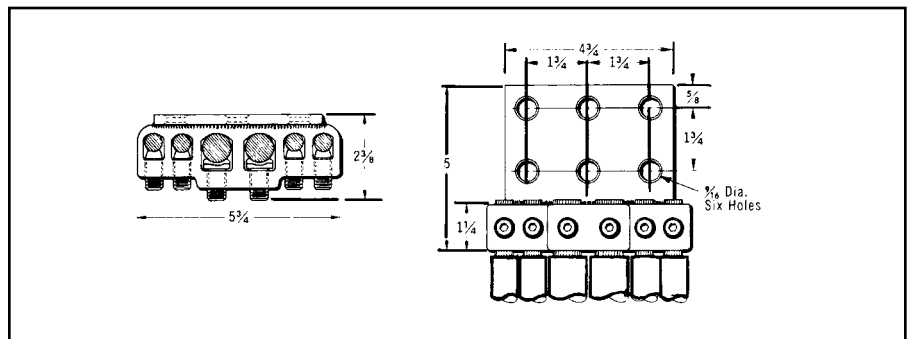
Catalog Number	Number of Fuses	L Inches
F22A28	4	6-1/2

Type LF LIMITER and HYLUG™ (copper or aluminum)  
Compression terminals must be ordered separately.

## TRANSFORMER TERMINALS

### FOR ALUMINUM AND COPPER CONDUCTORS

Made of aluminum alloy, the massive design minimizes conductor corrosion due to galvanic action. Each outlet is pre-filled with PENETROX™ joint compound and sealed. Plated aluminum socket head pressure screws and aluminum pressure bars prevent conductor damage. Six hole pad allows for adjustable positioning on four hole NEMA spades.



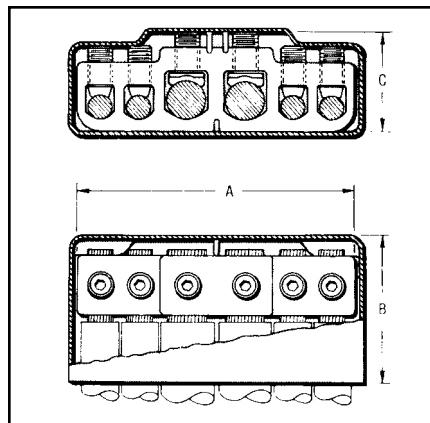
Conductor	Catalog Number	Number of Outlets
Two Outlets 2 Str. - 500 Four Outlets 6 Str. - 4/0 Str.	K6A34U-6N	6

## TYPE K-P-UC

### UNIVERSAL URD SERVICE TAP

#### FOR ALUMINUM OR COPPER

Made of aluminum alloy, the massive design minimizes conductor corrosion due to galvanic action. Each outlet is pre-filled with PENETROX™ joint compound and sealed. Plated aluminum socket head pressure screws and aluminum pressure bars prevent conductor damage. Each connector is supplied with an insulating cover.



Conductor	Catalog Number			Number of Outlets	A	B	C
	Complete Assembly	Connector Only	Cover Only				
Two Outlets 2 Str. - 500 Four Outlets 6 Str. - 4/0 Str.	K6P34UC	K6P34U	K6PC34U	6	5-3/4	3-1/8	2-1/8

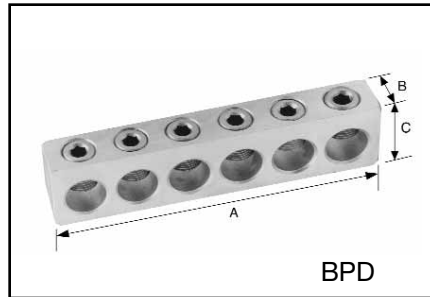
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## TYPES BPD & BPD2

### POWER DISTRIBUTION BLOCKS

Dual rated ground pedestal lugs. Rated for 600 volt. Constructed from high strength aluminum alloy 6061-T6. Connectors are all plated to provide low contact resistance.

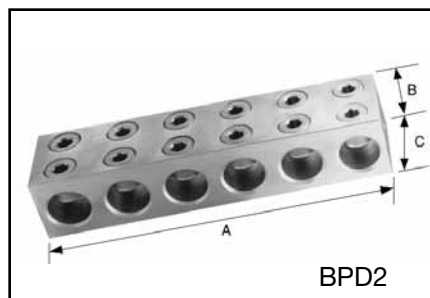
Plastisol covers dielectric strength rating of 120 volts per mil. Nominal thickness is 156 mils. Covers purchased separately.



BPD



BIC



BPD2



BIC2

Catalog Number	Wire Range Aluminum or Copper	Number of Conductors	Dimensions			Insulating Cover
			A	B	C	
<b>BPD-4-350</b>	#6 - 350	4	3.88	1.38	1.00	<b>BIC-4-350</b>
<b>BPD-6-350</b>	#6 - 350	6	5.69	1.38	1.00	<b>BIC-6-350</b>
<b>BPD-8-350</b>	#6 - 350	8	7.50	1.38	1.00	<b>BIC-8-350</b>
<b>BPD-4-500</b>	#2 - 500	4	4.75	1.63	1.00	<b>BIC-4-500</b>
<b>BPD-6-500</b>	#2 - 500	6	7.00	1.63	1.00	<b>BIC-6-500</b>
<b>BPD-8-500</b>	#2 - 500	8	9.25	1.63	1.00	<b>BIC-8-500</b>
<b>BPD2-4-750</b>	#2 - 750	4	6.56	2.00	2.50	<b>BIC2-4-750</b>
<b>BPD2-6-750</b>	#2 - 750	6	9.88	2.00	2.50	<b>BIC2-6-750</b>
<b>BPD2-8-750</b>	#2 - 750	8	13.81	2.00	2.50	<b>BIC2-8-750</b>

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Throughout the catalog you will notice blue highlighted items. These are the most frequently ordered BURNDY® Products.