

*Rural Development Utilities Programs (RDUP) –
Accepted Telecommunications Material*



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RDUP Listed Material

■ Outside Plant for Business-Critical Continuity

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General Information and Notice of Disclaimer

■ Outside Plant for Business-Critical Continuity

RDUP accepted materials are indicated by grey shaded areas as shown in the table below:

Ordering Information				
Catalog Number	Part Number	Description	In	Out
RSL400W25	F081221	25-ft. filled stub-down; RLS50 block	200	200
RSL600W25	F081223	25-ft. filled stub-down; RLS50 block	200	400
RBK400AA15	F004939	15-ft. air core stub-up; CQF50 block	200	200
RBK900AA15	F004943	15-ft. air core stub-up; CQF50 block	300	600

General Information

This listing supersedes all preceding Emerson Rural Utility Development (RDUP) listings of acceptable materials for use on telecommunications systems of RDUP borrowers. It reflects all actions of the RDUP Technical Standards Committees "A" and "B" (Telecommunications) through February 23, 2006, and includes changes in listings due to additions, deletions, and corrections made through Meeting No. 778 of Technical Standards Committee "A" (Telecommunications.)

Emerson Products

Emerson products are designed around Telcordia (formerly Bellcore), RDUP (formerly RUS) and UL product requirements and specifications. For more detailed information about specific RDUP accepted products, refer to the RDUP List of Materials (Telecommunications) located at: http://www.usda.gov/rus/telecom/materials/index_listomat.htm.

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100MB/200MB Ready Access Splice Closures

■ Outside Plant for
Business-Critical Continuity

Key Features

- Designed for load-coil mounting to provide versatility: one unit for splicing, distribution, or load point
- Inner-shield bond and ground system ensures good transmission and sound electrical shield continuity
- Branch nozzle kits available so lateral cables can be placed at any time
- Numbered drop wire entrances for good housekeeping
- Polyethylene construction; stainless steel external parts provide long life

Description

100MB/200MB Ready Access aerial splice or terminal splice closures provides access to lashed or Figure 8 aerial cable for straight or branch splices and service drops, while protecting the splice from the environment. Because the messenger strand is installed within the 100MB and 200MB closures, it does not need to be separated from the cable.

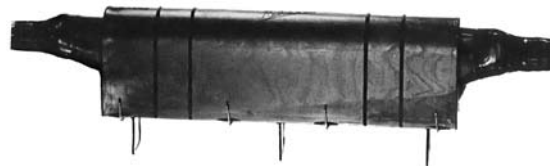
Ready Access splice closures accommodate either four 3-pair 381 series protected terminal blocks, or four 145-type terminal blocks to meet most terminal requirements.

A patented inner-shield bonding system features a clamping arrangement that holds the cable-shield 360° in circumference to ensure shield continuity. The MB version has a barbed inner clamp for shield continuity. The MBK version has a multi-position tie bar for easy positioning of shield bonding connectors, and an insulation piercing hanger clamp for support and grounding to the messenger.

The 100MB/200MB features a lift-off cover, detachable cover tie snaps, detachable snap-in drop wire rings, and numbered drop wire entrances molded onto the base.

Application

100MB and 200MB Ready Access aerial splice or terminal closures enclose straight, branch, and terminal splices, or are used for load-coil mounting. This series accommodates both messenger strand and cable.



100MB Straight Splice



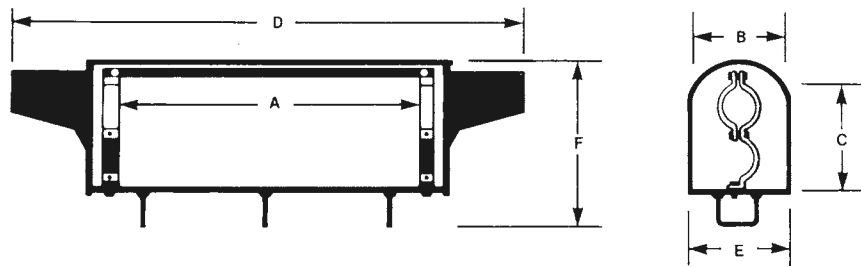
200MBY Branch Splice



100MB/200MB Ready Access Splice Closures

Dimensions

Catalog Number	A	B	C	D	E	F
100MB						
100MBY	14.06-in.	2.5-in.	4.31-in.	24.18-in.	3.06-in.	4.81-in.
100MBK	(357.12mm)	(63.50mm)	(109.57mm)	(614.43mm)	(77.72mm)	(122.17mm)
100MBKY						
200MB						
200MBY	16.75-in.	3.5-in.	6.5-in.	29.75-in.	3.75-in.	9.25-in.
200MBK	(425.45mm)	(88.90mm)	(165.10mm)	(755.65mm)	(95.25mm)	(234.95mm)
200MBKY						



Straight Splice Shown

Ordering Information

Catalog Number	Part Number	Description	Cable Diameter Range
100MB	F003700	Closure	.40" to 1.20" (10.16mm to 30.48mm)
100MBY	F003705	Closure includes branch kit (replaces 300-0 series with an extra branch kit)	.40" to .80" branch (10.16mm to 20.32mm)
100MBK	F003707	Closure with multi-position tie bar	.40" to 1.20" (10.16mm to 30.48mm) and 1/4" dia. messenger cable
100MBKY	F003708	Closure includes branch kit with multi-position tie bar (replaces 300-0 series with an extra branch kit)	.40" to .80" branch (10.16mm to 20.32mm)
200MB	F003980	Closure	1.20" to 2.20" (30.48mm to 55.88mm)
200MBY	F003985	Closure includes branch kit (replaces 400-0 series with extra branch kit)	.40" to 1.60" branch (10.16mm to 40.64mm)
200MBK	F003983	Closure with multi-position tie bar	1.20" to 2.20" (30.48mm to 55.88mm) and 1/4" dia. messenger cable
200MBKY	F003984	Closure includes branch kit with multi-position tie bar (replaces 400-0 series with an extra branch kit)	.40" to 1.60" branch (10.16mm to 40.64mm)

NOTE: For Y-branch nozzle kits, hanger bracket kits, messenger insulators, end plugs and sealing tape, see Accessories.

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430Y Ready Access Splice Closure

■ Outside Plant for
Business-Critical Continuity

Key Features

- Neoprene construction and stainless steel external parts provide long life
- Scored nozzles are easily trimmed to fit cable
- Numbered drop wire entrances for good housekeeping

Description

The 430Y Ready Access closure is used for lashed and figure “8” cable, and larger size cables in the 2 to 3-in. diameter range. It can enclose up to 900-pair cable splices.

Ready Access splice closures accommodate either four 3-pair 381 series protected terminal blocks, or four 145-type terminal blocks to meet most terminal requirements.

The 430Y closure provides weather protection for PIC aerial cable splices. The closure incorporates a shield continuity bonding system and includes numbered drop-wire ports. The inner sheath clamp and exterior bracket combine to prevent sheath pull-out and provide sound electrical shield continuity. Scored nozzles fit various cable sizes.

Application

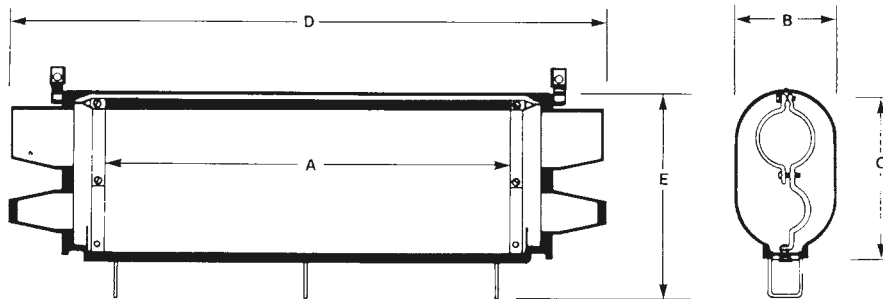
Used on larger size cables in the 2- to 3-in. diameter range; the 430Y accommodates wire terminal blocks or load coils.



430Y Ready Access Splice Closure

Dimensions

Catalog Number	A	B	C	D	E
430Y	24.0-in. (609.6mm)	6.25-in. (158.75mm)	10.0-in. (254.0mm)	35.5-in. (730.25mm)	12.00-in. (304.80mm)



Ordering Information

Catalog Number	Part Number	— Cable Diameter Range —	
		Main	Branch
430Y	F004585	2.0-in. to 3.0-in.	1.1-in. to 2.2-in. (27.9mm) (55.9mm)

NOTE: For Y-branch nozzle kits, hanger bracket kits, messenger insulators, end plugs and sealing tape, see Accessories.

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ProFORM® Series Non-Metallic Pedestals

■ Outside Plant for
Business-Critical Continuity

Key Features

- “Stake-less” self-supporting base eliminates the need for supplemental mounting stakes
- Split/Rehab base in short base or integral spade to allow for easier placement over existing cable or pedestal expansion
- Lift-off dome for 360° access permits complete access to all wirework and equipment
- “Slide and secure” mounting plate slides and locks into the base for an easier installation than competitive designs
- Universal mounting plate hole pattern easily accepts all types of terminal blocks; and provides greater mounting space than competitive designs
- Molded-in service wire channel provides greater capacity; entry port above bottom edge eases installation and prevents loss of gravel in the base
- Seamless integral flood dome protects wirework from flood submersion; no joint worries
- Superior service wire grooming optimizes use of craft area for grooming service drops from the service channel, to the bond bracket, to the block
- “Drive barb” on integral spade base helps reduce pullout
- Single point self-locking cover provides secure pedestal locking, and eased craft access

Description

The ProFORM® series of pedestals are the premier line of non-metallic pedestals from Emerson Network Power. These pedestals incorporate strength, rigidity and security all in a high performance thermo-plastic material designed to Telcordia GR-13 CORE and RDUP PE-91 specifications.

The ProFORM® pedestal provides the most craft-friendly design presently on the market. Optimal working space is ensured for splicing, bonding and grounding, terminal block attachment, service wire entry, conduit placement, and wire grooming and management. Further the ProFORM® pedestal provides simplified installation through its split/rehab base design, slide and secure mounting plate assembly, and self-latching dome. To accommodate varying soil conditions ProFORM® is available in a self-supporting short base and an integral-spade base. Supplemental mounting stakes are also available if additional stability is required.

The ProFORM® pedestal’s unique shape provides superior splicing capacity, to better secure open wire bundles and/or wirework enclosures. Its shape also provides improved aesthetics over competitive plastic pedestals, for a “less industrial” appearance.

Application

ProFORM® series pedestals are ideal for applications where non-metallic construction, flood protection, or 360° access is desired. These pedestals can be configured for buried distribution telecommunications equipment, including splice and splice/fixed count termination applications.



PRO8
Short Self-Supporting Base



PRO1830
Splice Pedestal



ProFORM® Series Non-Metallic Pedestals

Dome



Dome

- Single point self-locking
- Integral flood protection available
- Increased splice capacity
- Lift-off handles

Mounting Plate



Mounting Plate

- “Slide and secure” snap in ease
- Universal mounting pattern
- Wire grooming
- Bonding flexibility
- High capacity splice ladder
- Secure splice ladder snap
- “C” bracket option
- Splice bracket option

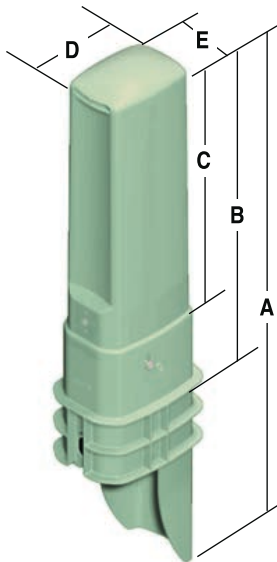
Short Split/Rehab Base



Bases

- Split/rehab base
- Ease of installation
- In ground stability
- Self-supporting base
- Integral spade base
- Molded in ground line
- Front access service wire channel
- Temporary service grommets

Integral Spade Base



Dimensions

Pedestal	A	B	C	D	E
Short Self-Supporting Base					
Pro4/PROMBDE	37-in.	20-in.	15-in.	4.5-in.	4.5-in.
Pro6	45-in.	35-in.	30-in.	9-in.	6.5-in.
Pro8	45-in.	35-in.	30-in.	10.5-in.	8-in.
Pro10	45-in.	35-in.	30-in.	12-in.	10.8-in.
Pro12	45-in.	35-in.	30-in.	14.5-in.	11.5-in.
Pro14	51-in.	38-in.	36-in.	17.7-in.	17.7-in.
Pro1420	51-in.	38-in.	36-in.	23.6-in.	17.6-in.
Pro1830	51-in.	38-in.	36-in.	33.8-in.	21.8-in.
Integral Spade Base					
Pro6	60-in.	35-in.	30-in.	9-in.	6.5-in.
Pro8	60-in.	35-in.	30-in.	10.5-in.	8-in.
Pro10	60-in.	35-in.	30-in.	12-in.	10.8-in.
Pro12	60-in.	35-in.	30-in.	14.5-in.	11.5-in.

ProFORM® Series Non-Metallic Pedestals

Ordering Information

Catalog Number	Part Number	Description	RDUP Equivalents
PRO6HIRNG	F1004818	6-in. non-metallic split-base pedestal with integral spade and mounting plate	BD3 & BD14
PRO6HSRNG	F1004819	6-in. non-metallic split-base pedestal with mounting plate	BD3 & BD14
PRO6HICNG	F1004816	6-in. non-metallic split-base pedestal with integral spade and "C" bracket	BD3 & BD14
PRO6HSCNG	F1004817	6-in. non-metallic split-base pedestal with "C" bracket	BD3 & BD14
PRO6HISNG	F1005455	6-in. non-metallic split-base pedestal with integral spade and splice bracket	BD3 & BD14
PRO6HSSNG	F1005456	6-in. non-metallic split-base pedestal with splice bracket	BD3 & BD14
PRO6HIRNGE	F1006562	6-in. non-metallic split base pedestal with integral spade, empty	
PRO6HSRNGE	F1006563	6-in. non-metallic split base pedestal, empty	
PRO8HIRNG	F1005007	8-in. non-metallic split-base pedestal with integral spade and mounting plate	BD4 & BD15
PRO8HSRNG	F1005008	8-in. non-metallic split-base pedestal with mounting plate	BD4 & BD15
PRO8HICNG	F1005005	8-in. non-metallic split-base pedestal with integral spade and "C" bracket	BD4 & BD15
PRO8HSCNG	F1005006	8-in. non-metallic split-base pedestal with "C" bracket	BD4 & BD15
PRO8HISNG	F1005457	8-in. non-metallic split-base pedestal with integral spade and splice bracket	BD4 & BD15
PRO8HSSNG	F1005458	8-in. non-metallic split-base pedestal with splice bracket	BD4 & BD15
PRO8HIRNGE	F1006564	8-in. non-metallic split base pedestal with integral spade, empty	
PRO8HSRNGE	F1006565	8-in. non-metallic split base pedestal, empty	
PRO10HIRNG	F1005011	10-in. non-metallic split-base pedestal with integral spade and mounting plate	BD5 & BD16
PRO10HSRNG	F1005012	10-in. non-metallic split-base pedestal with mounting plate	BD5 & BD16
PRO10HICNG	F1005009	10-in. non-metallic split-base pedestal with integral spade and "C" bracket	BD5 & BD16
PRO10HSCNG	F1005010	10-in. non-metallic split-base pedestal with "C" bracket	BD5 & BD16
PRO10HISNG	F1005459	10-in. non-metallic split-base pedestal with integral spade and splice bracket	BD5 & BD16
PRO10HSSNG	F1005460	10-in. non-metallic split-base pedestal with splice bracket	BD5 & BD16
PRO10HIRNGE	F1006527	10-in. non-metallic split base pedestal with integral spade, empty	
PRO10HSRNGE	F1006528	10-in. non-metallic split base pedestal, empty	
PRO12HIRNG	F1005015	12-in. non-metallic split-base pedestal with integral spade and mounting plate	
PRO12HSRNG	F1005016	12-in. non-metallic split-base pedestal with mounting plate	
PRO12HICNG	F1005013	12-in. non-metallic split-base pedestal with integral spade and "C" bracket	
PRO12HSCNG	F1005014	12-in. non-metallic split-base pedestal with "C" bracket	
PRO12HISNG	F1005461	12-in. non-metallic split-base pedestal with integral spade and splice bracket	
PRO12HSSNG	F1005462	12-in. non-metallic split-base pedestal with splice bracket	
PRO12HIRNGE	F1006529	12-in. non-metallic split base pedestal with integral spade, empty	
PRO12HSRNGE	F1006530	12-in. non-metallic split base pedestal, empty	
PRO14	F1007436	14-in. x 14-in. non-metallic flood protected pedestal with mounting plate	
PRO1420	F1006909	14-in. x 20-in. non-metallic flood protected pedestal	
PRO1830	F1006910	18-in. x 30-in. non-metallic flood protected pedestal	

NOTE: Minimum order quantities apply



ProFORM® Series Non-Metallic Pedestals

Accessories (Mounting Stakes)

Catalog Number	Part Number	Description	UOM	MOQ std. package
MS1332	F602132	32-in. pedestal mounting stake	Each	10
MS1342	F604080	42-in. pedestal mounting stake	Each	10

Specifications

Pedestal Series	Splicing Volume	Splice Capacity	Splice Connections	Terminal Block Capacity	Service Wire Channel Capacity	Conduit Capacity
Pro6	560 cu in.	400 pair	800	1	10-5 pair drops	One 4-in. & two 2-in.
Pro8	960 cu in.	600 pair	1200	2	10-5 pair drops	Two 4-in.
Pro10	1680 cu in.	900 pair	1800	2	12-5 pair drops	Four 4-in.
Pro12	3000 cu in.	1500 pair	3000	3	16-5 pair drops	Four 4-in. & two 2-in.
Pro14	5700 cu in.	2500 pair	5000	3	N/A	Nine 4-in.
Pro1420	7600 cu in.	3000 pair	6000	4	N/A	Twelve 4-in.
Pro1830	14,000 cu in.	5000 pair	10,000	6	N/A	Twenty-four 4-in.

NOTE: Total number of pairs spliced is dependant on connector use and local practice.

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ProFORM® FTTP Fiber Non-Metallic Pedestal

■ Outside Plant for
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Key Features

- “Stake-less” self-supporting base eliminates the need for supplemental mounting stakes
- Split/Rehab base allows for easier placement over existing cable or pedestal expansion
- Universal mounting system (URB) accommodates a wide variety of equipment
- Universal fiber mounting plate accommodates most splice trays, optical terminal blocks and slack storage
- Lift-off dome for 360° access permits complete access to all wirework and equipment
- Seamless integral flood dome protects wirework from flood submersion; no joint worries
- Single point self-locking cover provides secure pedestal locking, and eased craft access

Description

The ProFORM® FTTP series of pedestals are the premier line of non-metallic pedestals from Emerson Network Power. These pedestals incorporate strength, rigidity and security all in a high performance thermo-plastic material designed to Telcordia GR-13 CORE and RDUP PE-91 specifications.

The ProFORM® FTTP pedestal provides the most craft-friendly design presently on the market. Optimal working space is ensured for optical terminal block attachment and conduit placement. Installation is simplified through the split/rehab base design and self-latching dome. To accommodate varying soil conditions, supplemental mounting stakes are available if additional stability is required.

Application

ProFORM® FTTP series pedestals are ideal for applications where non-metallic construction, flood protection, or 360° access is desired. These pedestals can be configured for buried distribution telecommunications equipment, including splice and splice/fixed count termination applications. Terminal mounting is accommodated using a bracket with a universal hole pattern. A universal rear mounting bracket (URB) can be mounted to the rear of the pedestal, providing access to fiber drops and allowing for generous fiber bend radii, routing and future application growth.



8-in. Fiber Pedestal
Shown with Self-Supporting Base
and Universal Rear Bracket
(fiber terminal block not included)



Fiber Storage Side

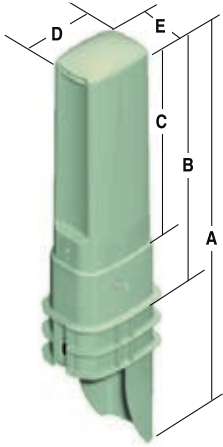
10-in. Fiber Pedestal
Front & Back Views with Self-Supporting
Base and Fiber Mounting Plate
(fiber cable & splice trays not included)



Splice Side



ProFORM® FTTP Fiber Non-Metallic Pedestal



Integrated Spade Base Shown

Dimensions (Inches)

Ped	A	A	B	C	D	E
	Short Self-Supporting Base	Integrated Spade Base				
Pro8	45-in.	60-in.	35-in.	30-in.	10.5-in.	8-in.
Pro10	45-in.	60-in.	35-in.	30-in.	12-in.	10.8-in.
Pro12	45-in.	60-in.	35-in.	30-in.	14.5-in.	11.5-in.

Ordering Information

Emerson Catalog No. Emerson Part No. Description

ProFORM® with Universal Rear Bracket (URB)

PRO8FINGURB	F1006245	8" pedestal, integral spade split base w/URB
PRO8FSNGURB	F1006243	8" pedestal, short self-supporting split base w/URB
PRO10FINGURB	F1006246	10" pedestal, integral spade split base w/URB
PRO10FSNGURB	F1006244	10" pedestal, short self-supporting split base w/URB
PRO12FINGURB	F1006857	12" pedestal, integral spade split base w/URB
PRO12FSNGURB	F1006856	12" pedestal, short self-supporting split base w/URB

ProFORM® Fiber Distribution Pedestal

PRO8FING	F1007237	8" integral spade fiber distribution pedestal
PRO8FSNG	F1007238	8" short self-supporting split base fiber distribution pedestal
PRO10FING	F1007239	10" integral spade fiber distribution pedestal
PRO10FSNG	F1007240	10" short self-supporting split base fiber distribution pedestal
PRO12FING	F1007689	12" integral spade fiber distribution pedestal
PRO12FSNG	F1007680	12" short self-supporting split base fiber distribution pedestal

Fiber Accessories

URBKIT	F1006936	URB upgrade kit for ProFORM® pedestals
PRO8FMPLT	F1007331	Fiber mounting plate for 8" ProFORM® pedestals
PRO10FMPLT	F1007168	Fiber mounting plate for 10" ProFORM® pedestals
PRO12FMPLT	F1007801	Fiber mounting plate for 12" ProFORM® pedestals

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ProFORM® FTTP Vault Pedestal

■ Outside Plant for
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Key Features

- Self-locking lift-off dome for 360° access to all fiber terminations, splicing and equipment
- Raises fiber drop above grade for easy access and identification
- Seamless integral flood protection
- Universal mounting system (URB) accommodates a wide variety of equipment
- Universal fiber mounting plate accommodates most splice trays, optical terminal blocks and slack storage
- Easily bolts to top of Verizon® approved vaults

Description

The ProFORM® FTTP vault series of pedestals is the premier line of non-metallic pedestals from Emerson. These pedestals incorporate strength, rigidity and security all in a high performance thermo-plastic material that meets or exceeds Telcordia GR-13 CORE and RDUP PE-91 specifications.

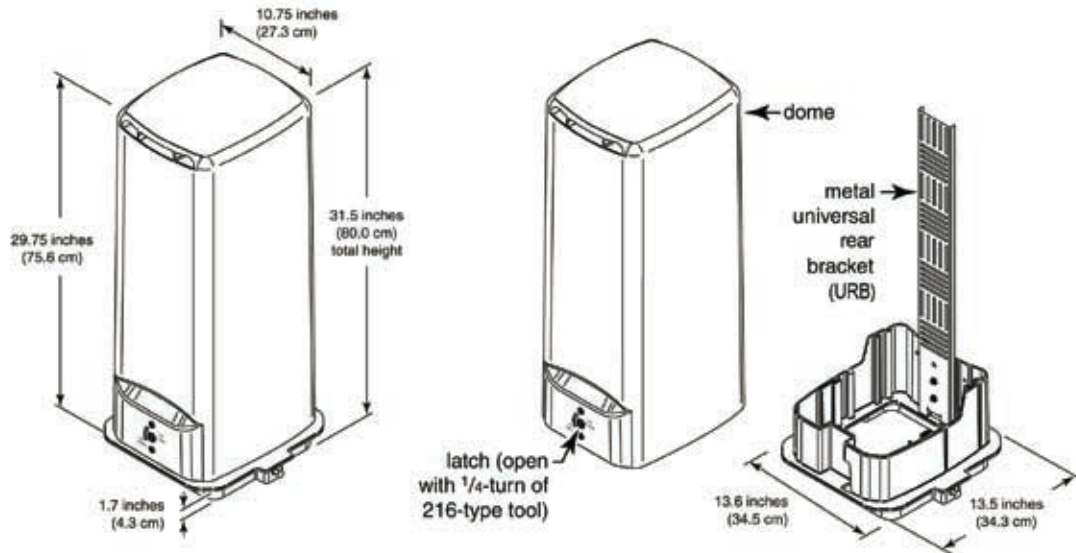
Application

The ProFORM® FTTP Vault Pedestal easily bolts to the top of a pre-cast vault with the approved cutout. Terminal mounting is accommodated using a bracket with a universal hole pattern in two ways. A standard universal rear mounting bracket (URB) or fiber mounting plate provides greater access to fiber drops and allows for generous fiber bend radii, routing and future application growth. A center mounting bracket for copper distribution and wire management, similar to the standard ProFORM® series, is also available.



ProFORM® FTTP Vault Pedestal

Dimensions



Ordering Information

Catalog Number	Part Number	Description
PRO10NFVP	F1007069	ProFORM® 10-in. fiber vault pedestal with URB bracket
PRO10FMVP	F1007628	ProFORM® 10-in. fiber vault pedestal with fiber mounting plate
PRO10NMVP	F1007776	ProFORM® 10-in. fiber vault pedestal with plastic center mounting plate

Accessories

Catalog Number	Part Number	Description
PRO10FMPLT	F1007168	10-in. fiber mounting plate
URBKIT	F1006936	URB, Universal rear mounting bracket kit
PROURBACCKIT	F1007021	URB accessory bracket kit
PRO10MTGPLT	F1007343	Plastic center mounting plate for 10" FTTP pedestal
PROCCPLATE	F1005802	Combined connection mounting plate
PROACCPATE	F1007017	Accessory mounting plate
PROVISMARKER	F1005649	Decal, high visibility, strip, 27-in. long X 1.5-in. wide, 50 per package

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BD FLOODPLUG™ Modular Flood Pedestal

■ Outside Plant for
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Key Features

- Seamless integral flood dome protects splices from flood submersion and provides greater reliability than two-piece flood domes
- Slanted dome top prevents standing water on the outside of the pedestal; allows inside condensation to run-off to the sides instead of on the splice bundle and terminal blocks
- Lift-off cover for 360° access permits full access to all splices and terminations
- Self-latching mechanism automatically secures the dome when it is placed on the base; prevents the dome from rising off the base as external water level rises
- Soil stabilizer rim achieves additional stabilization in loose soil conditions
- HMHDPE material provides greater impact resistance than other plastics; does not accelerate cracked PIC
- Rectangular shape provides greater splice capacity and soil stabilization than round closures
- RDUP accepted shield isolation bonding/grounding assembly meets RDUP requirements for cable shield isolation and 6AWG grounding capability

Description

BD FloodPlug™ pedestals are a complete family of nonmetallic BD pedestals accepted for use by the RDUP. The BD series are constructed of a non-corrosive, high performance grade of a gray-green HMHDPE (high molecular weight high density polyethylene). BD FloodPlug™ provides flood protection, and 360° access, in a non-metallic closure for outside plant cable splices, block terminations, and load coil assemblies.

The FloodPlug™ is available in three different sizes to allow greater flexibility in OSP network design and field upgradable brackets permit field upgrading from splice to terminal.

All BD FloodPlug™ pedestals come with an eight-inch base, a 34-in. dome, and either an I, offset, or plastic splice bracket with an RDUP ground bracket. The I bracket BD FloodPlug™ can be field upgraded with an offset bracket or plastic divider plate for terminal block or load coil mounting. Stakes are not included and may be ordered separately.

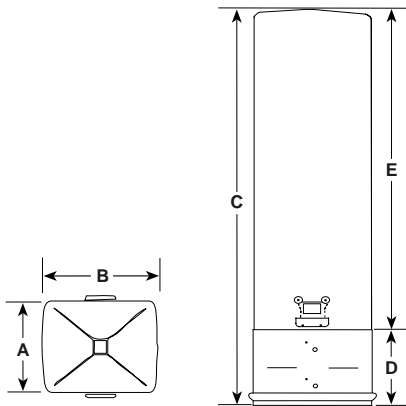
Application

BD Floodplug™ pedestals accommodate buried wires, cables, terminal blocks, load coils and serve as above-ground closures for splicing and distributing buried plant where flood protection, 360° access, or nonmetallic pedestals are required.



FPBD4

BD FLOODPLUG™ Modular Flood Pedestal



Top View

Side View

Dimensions

Catalog Number	A	B	C	D	E
FPBD3	6.5-in.	7-in.	42.2-in.	8-in.	34.2-in.
FPBD4	7-in.	9-in.	42.2-in.	8-in.	34.2-in.
FPBD5	9-in.	11-in.	42.2-in.	8-in.	34.2-in.

Ordering Information

Catalog Number	Part Number	Splice Capacities	RDUP* Accepted Splice Capacities	Description
FPBD3	F604864	400 pair	100 pair	6"x7" BD Floodplug™ w/I splice bracket & RDUP ground bkt.
FPBD4	F604884	800 pair	400 pair	7"x9" BD Floodplug™ w/I splice bracket & RDUP ground bkt.
FPBD5	F604904	1600 pair	900 pair	9"x11" BD Floodplug™ w/I splice bracket & RDUP ground bkt.
FPBD3OB	F604582	400 pair	100 pair	6"x7" BD Floodplug™ w/offset T bracket & RDUP ground bkt.
FPBD4OB	F604892	800 pair	400 pair	7"x9" BD Floodplug™ w/offset T bracket & RDUP ground bkt.
FPBD5OB	F604912	1600 pair	900 pair	9"x11" BD Floodplug™ w/offset T bracket & RDUP ground bkt.
FPBD3H	F604873	200 pair	100 pair	6"x7" BD Floodplug™ w/plastic divider plate & RDUP ground bkt.
FPBD4H	F604893	400 pair	400 pair	7"x9" BD Floodplug™ w/plastic divider plate & RDUP ground bkt.
FPBD5H	F604913	900 pair	900 pair	9"x11" BD Floodplug™ w/plastic divider plate & RDUP ground bkt.



Offset T Bracket



Divider Plate

Accessories

Catalog Number	Part Number	Description
P79066	F579066	I splice bracket (all sizes)
FPBDOB	F604914	Offset T bracket (34" dome)
FPH67	F604915	Plastic divider plate for 6"x7"
FPH79	F604916	Plastic divider plate for 7"x9"
FPH911	F604917	Plastic divider plate for 9"x11"
PS1342FP	F607198	Plastic stakes
MS1342	F604080	Metal stakes, 10 per pkg.

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Key Features

- Rugged metal housing made of mill-galvanized steel for durability and low maintenance costs
- Our unique multi-stage paint process meets or exceeds EPA standards, and provides a tough corrosion-resistant finish for longer life
- Factory installed stand-off bracket provides easy access to cable conductors
- Tongue-in-groove fit of upper cover protects against environmental conditions
- Factory installed dielectric shield with Velcro fasteners offers ultraviolet protection of cable conductors; is more user friendly
- RDUP accepted shield isolation bonding/grounding bracket assembly accommodates the RDUP PE-91 requirements for cable shield isolation; 6AWG grounding capability

Description

The UPCBD2 is a round-cornered, square-design telephone distribution pedestal accepted for use by the RDUP. Included in the UPCBD2 are: a dielectric shield, stand-off bracket, and shield isolation bonding/grounding bracket assembly.

Application

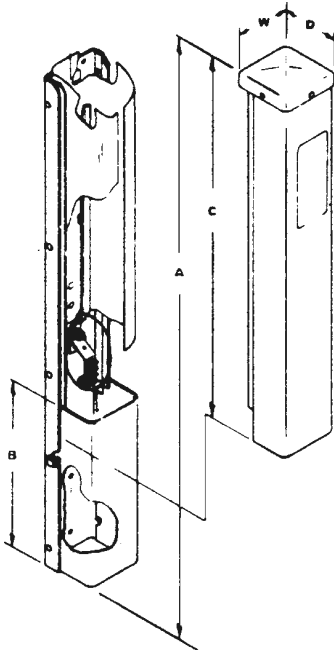
The UPCBD2 houses terminations and splices of small pair-count buried cable. Specific applications include termination of all types of service wires and housing all types of splicing arrangements.



UPCBD2 Distribution Pedestal

Dimensions

Catalog Number	A	B	C	D	W
UPCBD2	36.5"	12"	24.5"	4"	4"



Ordering Information

Catalog Number	Part Number	Description
UPCBD2*	F604840	4-in. gray-green pedestal
UPCBD2A*	F604841	4-in. gray-green pedestal with pole-mounting hardware (PKGPM)
UPCBD20B2	F605060	4-in. gray-green pedestal with OB2 bracket installed
UPCBD20R*	F604850	4-in. orange pedestal

* Equipped with SB234 bracket.

Accessories

Catalog Number	Part Number	Description
P34419	F534419	Dielectric shield
SB234	F604110	Stand-off bracket
GBRBD2	F605113	Bonding and grounding bracket assembly
OB2	F602730	Mounting bracket
FCBD2	F606807	Flood cover
P42953	F542953	Lower front cover
P42954	F542954	Orange lower front cover
RETROLOCK	F607245	Padlock-type security device

NOTE: Stakes and additional mounting hardware are not included and may be ordered separately. Please see the Accessories section at the end of this catalog.

Accessories

Catalog Number	— Terminal Blocks —			— Total Splice —	
	6-Pair Unprotected	1-Pair Protected	3-Pair Protected	RDUP Accepted	Recommended
UPCBD2	145B	281/281VSR2	381/381VSR2	3 pair	12 pair

NOTE 1: Total number of pairs spliced is dependent on connector use and local practices.

NOTE 2: Above terminal block recommendations relate to mounting on either the stand-off brackets, Catalog Number SB234 (Part No. F604110) or offset brackets, Catalog Number OB2 (Part No. F602730). Also, additional positive grounding must be provided when using a protected block. In the above protected blocks, "VSR2" denotes gas-tube protection and a blank or no letter denotes carbon protection.

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UPCBD3, 4, 5 Distribution Closures

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Key Features

- Rugged metal housing made of mill-galvanized steel for durability and low maintenance costs
- Our unique multi-stage paint process meets or exceeds EPA standards, and provides a tough corrosion-resistant finish for longer life
- Three convenient sizes with four versions for easy access to cable conductors and flexible installations
- Tongue-in-groove fit of upper cover provides better protection against environmental conditions
- Dielectric shield is factory installed with Velcro fasteners to offer ultraviolet protection of cable conductors; more user friendly
- RDUP accepted shield isolation bonding/grounding bracket assembly accommodates the RDUP PE-91 requirements for cable shield isolation; provides 6AWG grounding capability

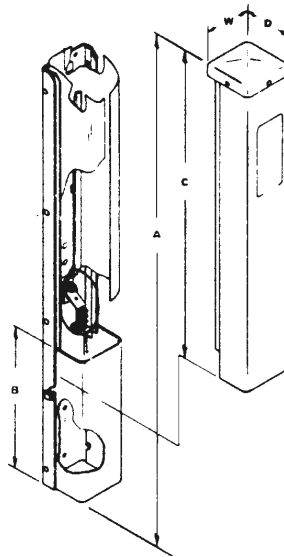
Description

UPCBD series are round-cornered square-design telephone closures suitable for copper or fiber* distribution. These closures are USDA accepted for use by the Rural Development Utilities Program (RDUP). The UPCBD3, UPCBD4, and UPCBD5 include a dielectric shield, cable ties, and a shield isolation bonding/grounding bracket assembly. The UPCBD is also available with a divider plate (UPCBD3H, UPCBD4H, UPCBD5H).

Application

The UPCBD3, UPCBD4, and UPCBD5 accommodate buried wires, cables, terminal blocks, and load coil assemblies. Specific uses include termination of buried service wires and all types of splicing arrangements.

* For fiber optic deployment, use of BDFOKIT (part no. F1007373) accessory is recommended. For more information see the BDFOKIT data sheet in the Accessories section.



UPCBD3

Dimensions

Catalog Number	A	B	C	D	W
UPCBD3	37-1/4-in.	12-in.	25-1/4-in.	6-3/4-in.	6-3/4-in.
UPCBD4	37-1/4-in.	12-in.	25-1/4-in.	8-1/2-in.	8-1/2-in.
UPCBD5	43-1/4-in.	12-in.	31-1/4-in.	10-1/2-in.	10-1/2-in.



UPCBD3, 4, 5 Distribution Closures

Ordering Information

Catalog Number	Part Number	Description	Catalog Number	Part Number	Description
UPCBD3	F604860	6-in. gray-green pedestal	UPCBD40B34	F605500	8-in. gray-green pedestal with OB34 bracket
UPCBD3H	F604865	6-in. gray-green pedestal with divider plate (DPBD3H)	UPCBD40R	F604890	8-in. orange pedestal
UPCBD3A	F604861	6-in. gray-green pedestal with pole mtg. hardware (PKGPM)	UPCBD5	F604900	10-in. gray-green pedestal
UPCBD30B34	F605490	6-in. gray-green pedestal with OB34 bracket	UPCBD5H	F604905	10-in. gray-green pedestal with divider plate (DPBD5H)
UPCBD30R	F604870	6-in. orange pedestal	UPCBD5A	F604901	10-in. gray-green pedestal with pole mtg. hardware (PKGPM)
UPCBD4	F604880	8-in. gray-green pedestal	UPCBD50B5	F605510	10-in. gray-green pedestal with OB5 bracket
UPCBD4H	F604885	8-in. gray-green pedestal with divider plate (DPBD4H)	UPCBD50R	F604920	10-in. orange pedestal
UPCBD4A	F604881	8-in. gray-green pedestal with pole mtg. hardware (PKGPM)			

Accessories (RDUP Accepted Terminal Blocks)

Catalog Number	— Terminal Blocks —			— Total Splice —	
	6-Pair Unprotected 145B	1-Pair Protected 281/281VSR2	3-Pair Protected 381/381VSR2	RDUP Accepted	Recommended
UPCBD3	3	3	3	100 pair	100 pair
UPCBD4	3	3	3	400 pair	400 pair
UPCBD5	4	3	5	600 pair	600 pair

NOTE 1: Total number of pairs spliced depends on connector use and local practices.

NOTE 2: Above terminal block recommendations relate to mounting on either stand-off brackets (SB234) or offset brackets (OB34 and OB5)

Accessories (A-Line Style Terminal Blocks)

Catalog Number	— Unprotected —			— Protected —		
	RGT/RPT5A	RGT/RPT10A	RGT/RPT25A	RGT/RPT5A	RGT/RPT10A	RGT/RPT25A
UPCBD3	2	2	2	1	1	1
UPCBD4	2	2	2	1	1	1
UPCBD5	2	2	2	1	1	1

NOTE 1: Above terminal block recommendations relate to mounting on a UPCBD series divider plate, not the stand-off and offset brackets. Also, the terminal blocks are not RDUP Accepted; additional positive grounding of protected terminal blocks must be provided.

NOTE 2: Stakes, additional grounding hardware, and grounding extension kits are not included and may be ordered separately. Please see the Accessories section for ordering information. If padlock protection is required, order the RETROLOCK also found in the Accessories section.

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BDFOKIT Fiber Optic Conversion Kit

■ Outside Plant for
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Key Features

- Kit converts standard inventory
- Radius limiting fiber storage
- Holds up to six splice trays
- Accommodates for splice tray sizes up to 5.5" wide x 12.75" tall
- Store over 10' stack (144-fiber loose tube)
- Central strength member tie-down points
- Fits UPCBD4 or UPCBD5 pedestals

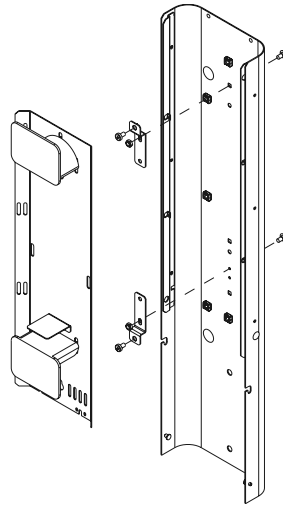
Description

The BDFOKIT fits any standard UPCBD4 or UPCBD5 pedestal and configures it as a fiber distribution pedestal. The BDFOKIT provides the capability to mount up to six fiber splice trays and fiber slack.

The BDFOKIT easily attaches via knockouts on the rear of the UPCBD4 or UPCBD5 pedestal. The BDFOKIT minimizes the need to stock multiple pedestals as the same pedestal may be used for fiber or copper distribution. The BDFOKIT may also be used to retrofit existing pedestals in the field for fiber deployment.



BDFOKIT Fiber Optic Conversion Kit



UPCBD Bracket for Fiber Deployment

Ordering Information

Catalog Number	Part Number	Description
BDFOKIT	F1007373	Upgrade bracket for BD4 & 5 fiber deployment

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UltraCab® Series Cross-Connect Cabinets

■ Outside Plant for
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Key Features

- Drop-down terminal block field facilitates cable storage before splicing and provides greater room for spliced connections
- Either 50-pr. RLS50 self-strip or CQF50 binding terminal blocks are available for application flexibility. RLS50 blocks provide rapid pair-at-a-time no-strip jumpering; CQF50 blocks eliminate accidental disruption of service from "moisture bridges," hits, and shorts
- Simplified split-drawer base provides ease of cabinet installation over in-place cables and facilitates cabinet rehabilitation
- Moisture and insect/rodent barrier base eliminates the need for pea gravel
- Single cabinet mounting footprint for 900-pair through 5400-pair reduces number of pads
- Overhanging rain guards, closed cell neoprene door gasketing, and screened louvers keep out moisture, minimize condensation, and provide weather protection
- Single access cabinets can be expandable to double access
- Treated with a powder-coat paint process on the interior and exterior for extended life

Description

The UltraCab® Series is an enhanced DRLS/DCQF drop-down style center-feed cross-connect interface system equipped with the 50-pair terminal blocks, in pair counts up to 8100 pairs. Cabinets are equipped with RLS50 or CQF50 terminal blocks, a test cord, jumper wire and spool, pair identification labels, and other accessories. Drop-down style block panels provide very short, easily traceable, jumper runs. Feeder (in) pairs are located in the center panels and distribution (out) pairs in the left and right outboard panels.

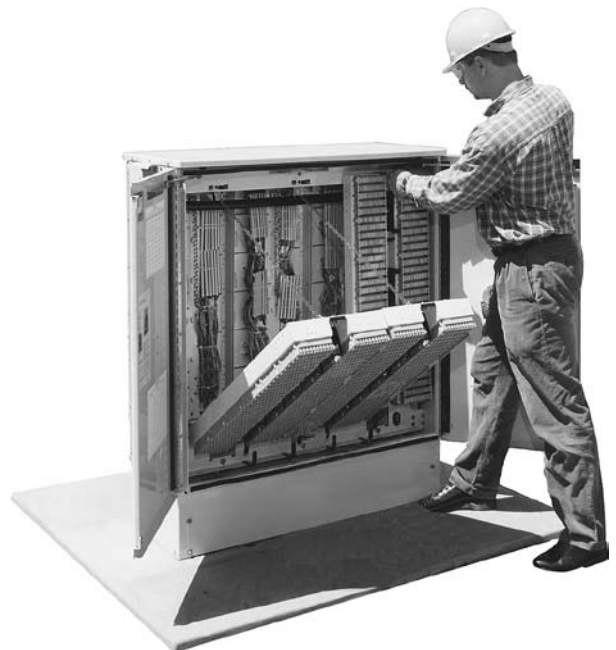
Single-access cabinets accommodate up to 4000 pairs, and double-access cabinets accommodate up to 8100 pairs. A 2700 pair single-access low profile cabinet and 5400-pair double-access low profile cabinet are also available. Cabinets are mounted directly to the pad through holes in the turned-in flanges which are an integral part of the base.

All cabinets over 600 pair have 6 cable port locations, 4 ports with glands and 2 ports with cover plates. The 2700 pair cabinets and larger have 6 cable port locations and 6 glands.

The UltraCab® is manufactured of heavy gauge mill-galvanized steel, treated with a powder-coat paint process on the interior and exterior for extended life. Housing color options are off-white, gray-green and brown.

Application

UltraCab® cabinets are used as cross-connect points and serving area interfaces. Cabinets are available as single or double access, field splice (stubless), or pre-stubbed.




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UltraCab® Series Cross-Connect Cabinets

Dimensions

Pair Count Single Access	H	W	D
1-600	53-in.	15-in.	14-in.
700-1200	41-in.	44-in.	20-in.
1300-1800	53-in.	44-in.	20-in.
1900-2700	70-in.	44-in.	20-in.
2700 Low Profile	53-in.	67-in.	20-in.
2800-4050 Long Base	70-in.	67-in.	20-in.
Pair Count Double Access			
700-1200	53-in.	15-in.	14-in.
1300-2400	41-in.	44-in.	20-in.
2500-3600	53-in.	44-in.	20-in.
3700-5400	70-in.	44-in.	20-in.
5400 Low Profile	53-in.	67-in.	20-in.
4100-8100 Long Base	70-in.	67-in.	20-in.

Ordering Matrix

Stub Connection	FS = Field splice*
	blank = Pre-stubbed
Drop-Down Housing	DRLS = RLS50 IDC blks
	DCQF = CQF50 binding terminal blks
Cable Type (stubbed only)	W = ALMW 24 gauge, filled shielded cable (call customer service)
	blank = Field Splice (FS)
Pair Count	1200 = 1200 pair
	27LP = 2700 pair Low Profile cabinet
	54LP = 5400 pair Low Profile cabinet
Access	S = Single
	D = Double
Stub Length* (25-ft. stubbed typ.)	blank = Field splice (FS)
Field Splice Connector Modules**	CF = 710, Capless, Receptacle, gel-filled
	3M = 3M 4000-D, dry, (MS2)
	DPM = 3M 4005-DPM, dry, (MS2)
	blank = No connectors on harness (other connectors are available upon request)
Color	W = Off-white
	G = Gray-green

* Other cable lengths available. Call customer service for ordering information.

** Field splice cabinets have 25-pr. harnesses exiting from the back of the blocks. The 25-pr. connector modules are typically installed at the end of harnesses.

UltraCab® Series Cross-Connect Cabinets

Ordering Information

Catalog Number	Part Number	Installed Pair	Field Splice Connector Module	Housing Color	Feeder/Distribution Ratio
Single Access with RLS Blocks					
FSDRLS600SW	F1002227	600	NA	Off-white	300/300
FSDRLS900SW	F1002228	900	NA	Off-white	300/600
FSDRLS1200SW	F1002229	1200	NA	Off-white	400/800
FSDRLS1500SW	F1002230	1500	NA	Off-white	500/1000
FSDRLS1800SW	F1002231	1800	NA	Off-white	600/1200
FSDRLS2700SW	F1002232	2700	NA	Off-white	900/1800
FSDRLS600S	F080041	600	NA	Green	300/300
FSDRLS900S	F080051	900	NA	Green	300/600
FSDRLS1200S	F080061	1200	NA	Green	400/800
FSDRLS1500S	F080071	1500	NA	Green	500/1000
FSDRLS1800S	F080081	1800	NA	Green	600/1200
FSDRLS2700S	F080118	2700	NA	Green	900/1800
FSDRLS600SCFW	F1002233	600	710 CF	Off-white	300/300
FSDRLS900SCFW	F1002234	900	710 CF	Off-white	300/600
FSDRLS1200SCFW	F1002235	1200	710 CF	Off-white	400/800
FSDRLS1500SCFW	F1002236	1500	710 CF	Off-white	500/1000
FSDRLS1800SCFW	F1001730	1800	710 CF	Off-white	600/1200
FSDRLS2700SCFW	F1002237	2700	710 CF	Off-white	900/1800
FSDRLS600SCF	F013060	600	710 CF	Green	300/300
FSDRLS900SCF	F013061	900	710 CF	Green	300/600
FSDRLS1200SCF	F013062	1200	710 CF	Green	400/800
FSDRLS1500SCF	F013146	1500	710 CF	Green	500/1000
FSDRLS1800SCF	F013147	1800	710 CF	Green	600/1200
FSDRLS2700SCF	F080416	2700	710 CF	Green	900/1800
FSDRLS600SDPMW	F080706	600	4005-DPM	Off-white	300/300
FSDRLS900SDPMW	F080707	900	4005-DPM	Off-white	300/600
FSDRLS1200SDPMW	F080708	1200	4005-DPM	Off-white	400/800
FSDRLS1500SDPMW	F1002238	1500	4005-DPM	Off-white	500/1000
FSDRLS1800SDPMW	F1002239	1800	4005-DPM	Off-white	600/1200
FSDRLS2700SDPMW	F1002240	2700	4005-DPM	Off-white	900/1800
FSDRLS600SDPM	F080404	600	4005-DPM	Green	300/300
FSDRLS900SDPM	F080405	900	4005-DPM	Green	300/600
FSDRLS1200SDPM	F080406	1200	4005-DPM	Green	400/800
FSDRLS1500SDPM	F080407	1500	4005-DPM	Green	500/1000
FSDRLS1800SDPM	F080408	1800	4005-DPM	Green	600/1200
FSDRLS2700SDPM	F080409	2700	4005-DPM	Green	900/1800

Note: All single access cabinets can be expanded to double access with door, block panel expansion kits.



UltraCab® Series Cross-Connect Cabinets

Ordering Information

Catalog Number	Part Number	Installed Pair	Field Splice Connector Module	Housing Color	Feeder/Distribution Ratio
Double Access with RLS Blocks					
FSDRLS1800DW	F1002243	1800	NA	Off-white	600/1200
FSDRLS2700DW	F1002244	2700	NA	Off-white	900/1800
FSDRLS3600DW	F1002245	3600	NA	Off-white	1200/2400
FSDRLS5400DW	F1002246	5400	NA	Off-white	1800/3600
FSDRLS7200DW	F1002247	7200	NA	Off-white	2400/4800
FSDRLS8100DW	F1002248	8100	NA	Off-white	2700/5400
FSDRLS1800D	F080089	1800	NA	Green	600/1200
FSDRLS2700D	F080121	2700	NA	Green	900/1800
FSDRLS3600D	F080139	3600	NA	Green	1200/2400
FSDRLS5400D	F080159	5400	NA	Green	1800/3600
FSDRLS7200D	F1002225	7200	NA	Green	2400/4800
FSDRLS8100D	F1002226	8100	NA	Green	2700/5400
FSDRLS1800DCF	F1002249	1800	710 CF	Off-white	600/1200
FSDRLS2700DCF	F1002250	2700	710 CF	Off-white	900/1800
FSDRLS3600DCF	F1002097	3600	710 CF	Off-white	1200/2400
FSDRLS5400DCF	F1002251	5400	710 CF	Off-white	1800/3600
FSDRLS7200DCF	F1002252	7200	710 CF	Off-white	2400/4800
FSDRLS8100DCF	F1002253	8100	710 CF	Off-white	2700/5400
FSDRLS1800DCF	F1002220	1800	710 CF	Green	600/1200
FSDRLS2700DCF	F080415	2700	710 CF	Green	900/1800
FSDRLS3600DCF	F013063	3600	710 CF	Green	1200/2400
FSDRLS5400DCF	F080158	5400	710 CF	Green	1800/3600
FSDRLS7200DCF	F1002222	7200	710 CF	Green	2400/4800
FSDRLS8100DCF	F1002223	8100	710 CF	Green	2700/5400
FSDRLS1800DDPMW	F080709	1800	4005-DPM	Off-white	600/1200
FSDRLS2700DDPMW	F080711	2700	4005-DPM	Off-white	900/1800
FSDRLS3600DDPMW	F080712	3600	4005-DPM	Off-white	1200/2400
FSDRLS5400DDPMW	F080716	5400	4005-DPM	Off-white	1800/3600
FSDRLS7200DDPMW	F1002254	7200	4005-DPM	Off-white	2400/4800
FSDRLS8100DDPMW	F1002255	8100	4005-DPM	Off-white	2700/5400
FSDRLS1800DDPM	F080411	1800	4005-DPM	Green	600/1200
FSDRLS2700DDPM	F080412	2700	4005-DPM	Green	900/1800
FSDRLS3600DDPM	F080413	3600	4005-DPM	Green	1200/2400
FSDRLS5400DDPM	F080161	5400	4005-DPM	Green	1800/3600
FSDRLS7200DDPM	F080152	7200	4005-DPM	Green	2400/4800
FSDRLS8100DDPM		8100	4005-DPM	Green	2700/5400

UltraCab® Series Cross-Connect Cabinets

Ordering Information

Catalog Number	Part Number	Installed Pair	Field Splice Connector Module	Housing Color	Feeder/Distribution Ratio
Single Access, Low Profile with RLS Blocks					
FSDRLS27LPSCFW	F1002241	2700	710 CF	Off-white	900/1800
FSDRLS27LPSCF	F1002219	2700	710 CF	Green	900/1800
FSDRLS27LPSPMW	F1002242	2700	4005-DPM	Off-white	900/1800
FSDRLS27LPSPDM	F1002224	2700	4005-DPM	Green	900/1800
Double Access, Low Profile with RLS Blocks					
FSDRLS54LPDCF	F1002256	5400	710 CF	Off-white	1800/3600
FSDRLS54LPDCF	F1002221	5400	710 CF	Green	1800/3600
FSDRLS54LPDDPMW	F080717	5400	4005-DPM	Off-white	1800/3600
FSDRLS54LPDDPM	F080414	5400	4005-DPM	Green	1800/3600

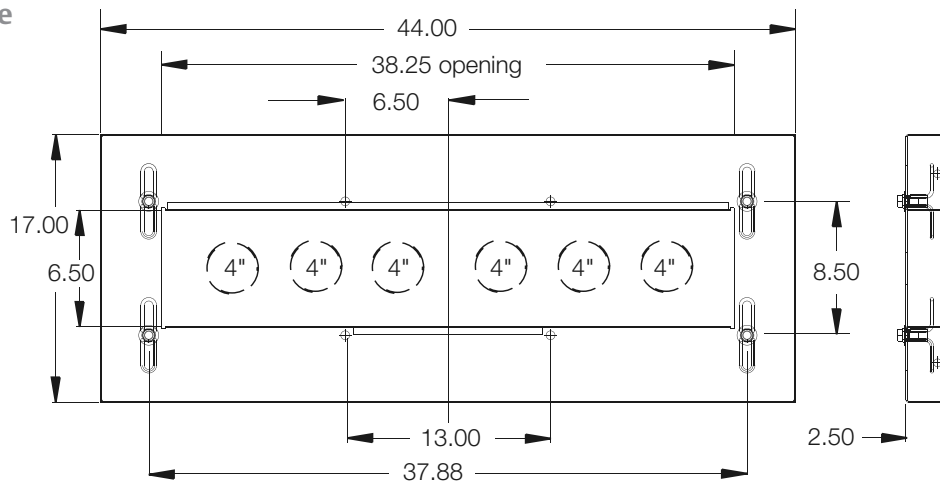
UltraCab® Series Cross-Connect Cabinets

Mounting Templates

Catalog Number	Part Number	Description
P71315	F571315	Metal mounting template (mounting center dimensions): 13.00"W x 8.50"D for 100-600 pair standard cabinets 37.88"W x 8.50"D for 700-5400 pair standard 44" wide cabinets
P71316	F571316	Metal mounting template (mounting center dimensions): 37.88"W x 8.50"D for 5500-8100 pair long base cabinet 2700 pair Low Profile and 5400 pair Low Profile 67" wide cabinets

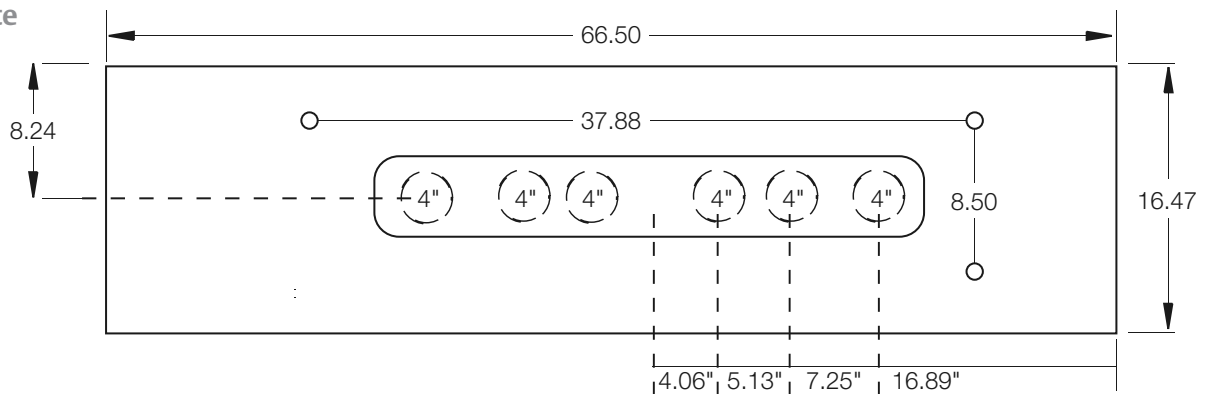
NOTE: Metal mounting template (F571315), to be embedded in poured concrete pad, must be purchased separately.

P71315 Template



NOTE: P71315 for standard 44-in. width cabinets only. Use P71316 for Low Profile and long base 67-in. wide cabinets. Mounting centers are identical, but template length is 67-in for support.

P71316 Template



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Aerial Pole-Mounted Drop-Down UltraCab® Cross-Connect Cabinet

■ Outside Plant for Business-Critical Continuity

Key Features

- Either 50-pr. RLS50 self-strip or CQF50 binding terminal blocks are available for application flexibility
- Stub-up or stub-down units available for maximum application flexibility and corrosion resistance
- High dielectric urethane potting compound on blocks and cable stub ports expands and contracts with temperature variations to provide added moisture protection
- Bottom hinged block field provides easy and complete access to splice chamber
- Overhanging rain guard protects against rain damage
- Rugged metal housing made of mill-galvanized steel for durability and low maintenance costs
- Treated with a powder-coat paint process on the interior and exterior for extended life

Description

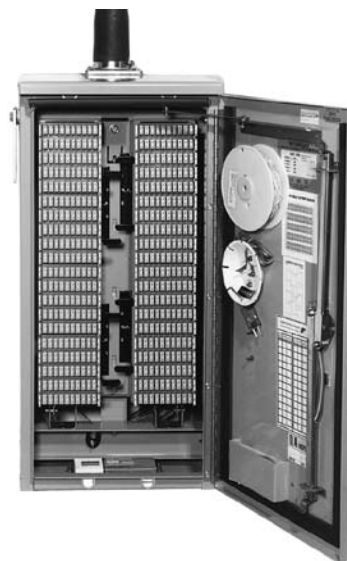
Emerson Network Power RSK/RSL and RBK/RBL units are gray-green or off-white metal pole-mounted aerial cross-connect cabinets. Each RSK and RBK closure features stub-up cable entry, while RSL and RBL units are stub-down models. RSK/RSL units contain RLS50 50-pair self-strip IDC terminal blocks. RBK/RBL cabinets have CQF50 50-pair silo-type “quiet front” screw-type terminal blocks up to 900 pair.

The RLS50 block provides rapid pair-at-a-time no-strip jumpering; the CQF50 block eliminates accidental disruption of service from moisture bridges, hits, and shorts.

The RSK/RSL and RBK/RBL aerial cross-connect cabinets are equipped with a drop-down grill, test cord, jumper wire and spool, pair identification labels, and other accessories. Standard housing color options are gray-green, off-white and brown.

Application

RSK/RSL and RBK/RBL aerial cross-connect cabinets can be pole- or wall-mounted. The units are used as cross-connect boxes and serving area interfaces.



RSK 400-Pair Aerial Cross-Connect



Aerial Pole-Mounted Drop-Down UltraCab® Cross-Connect Cabinet

Dimensions

Pair Size	H	W	D
100-400	33-in.	16-in.	14-in.
500-900	44.5-in.	24-in.	14-in.

Ordering Information

Catalog Number	Part Number	Description	In	Out
RSL400W25	F081221	25-ft. filled stub-down; RLS50 block	200	200
RSL600W25	F081223	25-ft. filled stub-down; RLS50 block	200	400
RSL900W25	F081224	25-ft. filled stub-down; RLS50 block	300	600
RBK400AA15	F004939	15-ft. air core stub-up; CQF50 block	200	200
RBK600AA15	F004941	15-ft. air core stub-up; CQF50 block	200	400
RBK900AA15	F004943	15-ft. air core stub-up; CQF50 block	300	600

Ordering Matrix

Aerial Cross-Connect Type	RSK = RLS-type (stub-up) RSL = RLS-type (stub-down) RBK = CQF-type (stub-up)	FSRS = Field splice, RLS-type* RBL = CQF-type (stub-down) FSRB = Field splice, CQF-type*
Pair Count	100 = 100 pair 200 = 200 pair 300 = 300 pair 400 = 400 pair	500 = 500 pair 600 = 600 pair 900 = 900 pair
Cable Type (pre-stubbed only)	AA = Alpeh air core, 24 AWG W = ALMW filled shielded cable, 24 AWG blank = Stubless (FS)	
Stub Length* (25-ft., pre-stubbed only)	blank = Field splice cabinets (FS) with internal wire bundles	
Field Splice Connector Modules**	CF = 710 connector, capless, female, gel-filled 3M = 3M 4000-D, dry, (MS2) DPM = 3M 4005-DPM, dry, (MS2) blank = Field splice harness, no connectors (FS)	
Color	W = Off-white blank = Gray-green	

* Other lengths available.

** Field splice cabinets have 25-pr. harnesses exiting from the rear of the blocks. The 25-pr. connector modules are typically installed at the end of internal wire bundles. They are not generally used on the end of external cable stubs.

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Aerial UltraCab® Cross-Connect Cabinet

■ Outside Plant for
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Key Features

- “T” pole-mounting bracket permits easy installation
- Stabilizer braces to maintain pole position
- Climb-assist handles for safety
- Top or bottom entrance ports for aerial or buried cables
- Equipped with CQF50 terminal blocks or RLS50 IDC terminal blocks for fast and easy pair-at-a-time no-strip jumpering
- High dielectric potting compound expands and contracts with temperature variations
- Three-point locking system provides cabinet security
- Overhanging rain guards, closed-cell neoprene door gasketing, and screened louvers keep out moisture, minimize condensation, provide weather protection, and restrict insect entry
- UltraCab® drop-down block-field provides easy, complete access to splice chamber

Description

The aerial pole-mounted drop-down UltraCab® is an integrated interface system consisting of a housing, terminal field, and cable to provide the interface between feeder and distribution cables. The cabinet is manufactured of light weight aluminum for easy installation and maintenance. Tin-plated screws and washers on binding post blocks prevent corrosion for longer and quieter life. The unit is available up to 2700 pair utilizing 50-pair CQF (Connector Quiet Front) screw terminal blocks or RLS IDC (Insulation Displacement Connection) terminal blocks. The CQF50 blocks are wire-wrapped and encapsulated with high dielectric, flexible resin.

Application

Aerial pole-mounted UltraCabs are designed to be pole-mounted with cable ports located at either the top or bottom. They are used in applications requiring up to 1800 pairs of terminations.



Specifications & Dimensions

Pair Range	Terminal Housing Dimensions			Terminal Housing Block Configuration		Max. Cable Ports*
	H	W	D	Across	Down	
600-900	44.5-in.	24-in.	14-in.	3	6	2
900-1200	44.5-in.	32.5-in.	14-in.	4	6	3
1200-1800	62-in.	32.5-in.	14-in.	4	9	3
1800-2700	62-in.	45.5-in.	14-in.	6	9	4



Aerial UltraCab® Cross-Connect Cabinet

Ordering Matrix

Stub Connection	FS = Field splice *		
	blank = Factory pre-stubbed		
Housing Type	AD = Aerial Drop-Down UltraCab®		
Block Type	CQF = Binding Post		
	RLS = IDC		
Total Pair Count	1200 = 1200 pair	1800 = 1800 pair	
	1500 = 1500 pair	2700 = 2700 pair	
Port Location (for FS) or Cable Type & Location	A = Field splice, stubless, top entry (not recommended)	AU = ALPETH air core, bottom stub	
	U = Field splice, stubless, bottom entry *	WA = ALMW filled, shielded, top stub	
	AA = ALPETH air core, top stub	WU = ALMW filled, shielded, bottom stub	
Stub Length	25 = 25-ft. length		
	blank = Field splice		
Splicing Connector *	CF = 710	CBM = 40005CBM	
	3M = 4000D, dry	blank = Raw harness	
	DPM = 40005DPM		
Stub Length	B = Brown	W = White	
	G = Green		

* Field-splice cabinets have 25-pair harnesses exiting from the rear of the blocks. The connector modules are installed at the end of the harness.

Aerial Accessories

Catalog Number	Part Number	Description
P50949KIT50	F017265	Jumper ring kit, 50 jumper rings and mounting hardware
P25115KIT50	F017264	Jumper ring kit, 50 jumper rings and mounting hardware
P31113	F531113	Climb assist handle for aerial cabinets
P35313	F535313	Handle assembly
P27097	F527097	Dish
P25784	F525784	Wire spool 22 GA purple/white
P25785	F525785	Wire spool 24 GA orange/white
P8474 / P08474	F508474	Hose clamp
P18576	F518576	Hose clamp
P21852	F521852	3-in. nozzle (one piece)
P21860	F521860	4-in. nozzle (one piece)

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UPCBD8000 Fiber/Copper Splice Housing Outdoor Terminal

■ Outside Plant for Business-Critical Continuity

Key Features

- Rugged metal housing made of mill-galvanized steel for durability and low maintenance costs
- Our unique multi-stage paint process meets or exceeds EPA standards, and provides a tough corrosion resistant finish for longer life
- Double-access hinged doors offer easy access to all conductors
- Removable base cover provides simplified installation
- Adjustable splice bars permit flexibility in dressing of conductors and splices
- Close-cell neoprene door gasketing provides weatherproof protection for internal components
- Positive action locking mechanism with padlock provision ensures security from unauthorized entry
- Built-in pad-mounting capability in the base allows installation flexibility for multiple applications
- RDUP accepted bonding/grounding system accommodates the RDUP requirements for bonding/grounding

Description

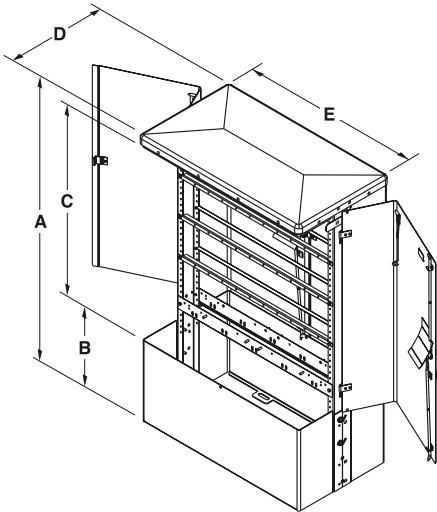
The UPCBD8000 is a round-cornered rectangular-design copper/fiber splice or equipment closure accepted for use by the RDUP. The UPCBD8000 may be used for high pair-count splices, cross-connect interface, fiber equipment, loop treatment electronics, and combined connection applications. This unit includes adjustable splice bars, two bonding and grounding bars, and pad-mounting hardware. Brackets for pad-mounting are built into the front and the rear bases. Although pad-mounting is recommended, stake-mounting holes are also provided.

Application

The UPCBD8000 serves as an RDUP accepted above-ground housing for large PIC cable splices, load coils, loop treatment devices, cross-connections, and combined connection applications. The UPC1850F1 is configured to accept most fiber splice closures, providing ample space for fiber slack storage.



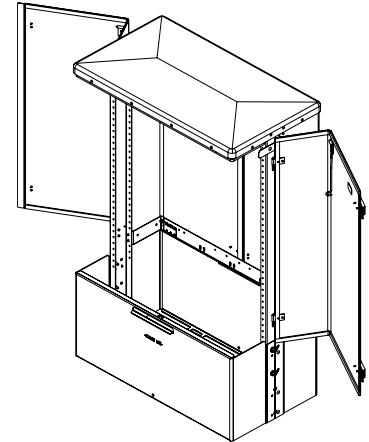
UPCBD8000 Fiber/Copper Splice Housing Outdoor Terminal



UPCBD8000



UPCBD8000
(front and rear doors open)



UPC1850F1

Dimensions*

A	B	C	D	W
50-in.	14-in.	34-in.	18-in.	32-in.

* Thirty-five mounting locations on the vertical columns are spaced 1-in. apart, for use with 1/4-14" x 1/2" long self-threading hardware. The distance between the left and right column hole centers is 29.90-in.

Ordering Information

Catalog Number	Part Number	Description	Splice
UPCBD8000	F604058	Gray-green splice closure	7200 pair
UPC1850F1	F1007415	Fiber splice closure	*

* Dependent on splice case capacity.

NOTE: Total number of pairs spliced is dependent on the connector and local practices.

Accessories

Catalog Number	Part Number	Description
P89532	F589532	Replacement splice bar
P84308	F584308	Fiber splice / receive-node mounting bracket
1850XBKT	F604057	RLS50/CQF50 cross-connect mounting bracket, 900 pair
MS1342	F604080	42-in. mounting stake, 10/pkg.**

** Use when pad mounting is not desirable.

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UPCBD7

Multi-Purpose Closure

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Key Features

- Rugged metal housing made of mill-galvanized steel for durability and low maintenance costs
- Our unique multi-stage paint process meets or exceeds EPA standards, and provides a tough corrosion resistant finish for longer life
- Double-access hinged doors allow easy access to all conductors
- Positive action three-point locking mechanism with padlock provisions provides security from unauthorized entry
- RDUP accepted bonding/grounding system accommodates the RDUP PE-91 requirement for bonding/grounding
- Close-cell neoprene door gasketing offers weatherproof protection for internal components
- Stake- or pad-mount capability for installation flexibility of multiple applications

Description

The UPCBD7 is a round-cornered, rectangular telephone equipment closure accepted for use by the RDUP. The UPCBD7 includes two PVC-coated splice support bars, ground and cable support bar, grounding connector, weather stripping, and two mounting stakes. For mounting additional equipment order the HIACT200 mounting plate kit.

Application

The UPCBD7 serves as an above-ground closure used for splicing, load-coil mounting, mounting of cross-connect systems, terminal blocks, and other telco equipment.

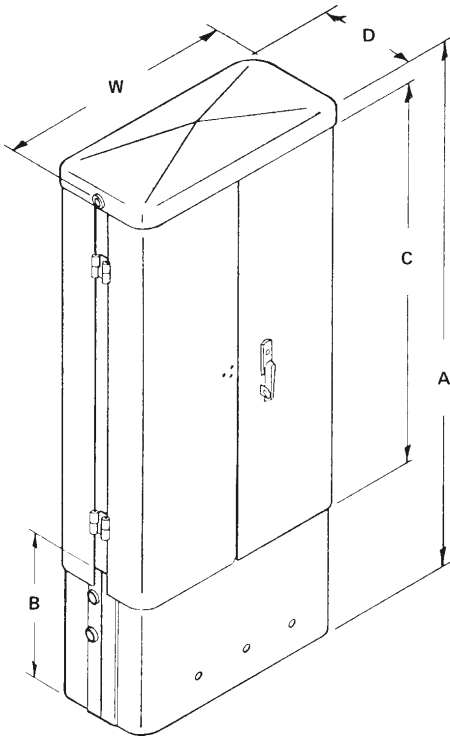


UPCBD7 Multi-Purpose Closure

Dimensions

Catalog Number	A	B	C	D	W	Splice	Cable Size	External Loading
UPCBD7	48-in.	14-in.	33-1/8-in.	11-3/8-in.	23-in.	2400 pair	3-in.	400 pair

NOTE: Total number of pairs spliced are dependent on connector use and local practices.



Ordering Information

Catalog Number	Part Number	Description
UPCBD7	F604310	Gray-green BD7 closure with brackets
UPCBD7OR	F604330	Orange BD7 closure with brackets
OS7	F604333	Empty BD7 closure without splice and ground brackets

Accessories

Catalog Number	Part Number	Description
HIACT200	F605620	High activity mounting PLT kit
MS1342	F604080	Metal stakes, 10/pkg.
PADMT200300	F605650	Pad-mounting kit

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UPCBDS Series Multi-Purpose Closures

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Key Features

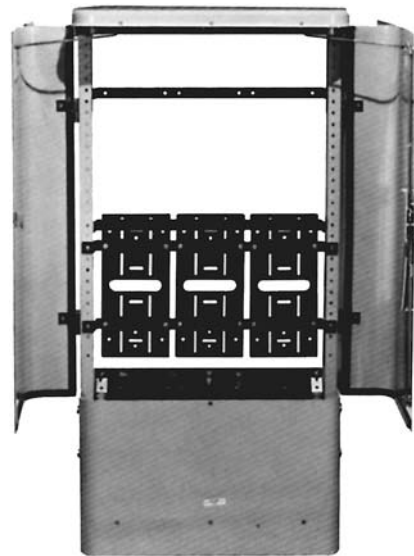
- Rugged metal housing made of mill-galvanized steel for durability and low maintenance costs
- Our unique multi-stage paint process meets or exceeds EPA standards, and provides a tough corrosion resistant finish for longer life
- Double-access hinged doors provide easy access to all conductors
- Positive action three-point locking mechanism with padlock provisions ensures security from unauthorized entry
- RDUP grounding system provides positive grounding of all components
- Close-cell neoprene door gasketing ensures weatherproof protection for internal components
- Stake- or pad-mount capability offers installation flexibility for multiple applications
- High activity kit available for flexibility to mount cross-connect blocks, terminal blocks, electrical equipment, etc.

Description

UPCBDS100, UPCBDS200, and UPCBDS300 are round-cornered rectangular-design telephone equipment closures accepted for use by RDUP. A UPCBDS closure includes splice support bars, mounting plates, bonding and grounding bracket, weather stripping, and two mounting stakes.

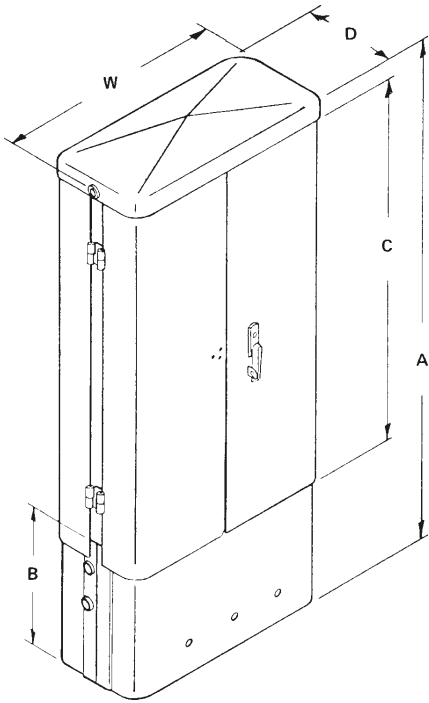
Application

The UPCBDS series closures are equipped for splicing, load-coil mounting, and mounting of cross-connect systems, terminal blocks, and electrical equipment.



UPCBDS200

UPCBDS Multi-Purpose Closures



Dimensions

Catalog Number	A	B	C	D	W
UPCBDS100	48-in.	14-in.	31-7/8-in.	11-in.	16-1/2-in.
UPCBDS200	48-in.	14-in.	31-7/8-in.	11-1/4-in.	23-1/2-in.
UPCBDS300	50-in.	14-in.	33-3/8-in.	12-1/2-in.	28-1/2-in.

Ordering Information

Catalog Number	Part Number	Description
UPCBDS100	F605580	Gray-green BDS 100 series closure
UPCBDS200	F605590	Gray-green BDS 200 series closure
UPCBDS300	F605600	Gray-green BDS 300 series closure
UPCBDS100OR	F605581	Orange BDS 100 series closure
UPCBDS200OR	F605591	Orange BDS 200 series closure
UPCBDS300OR	F605601	Orange BDS 300 series closure

Cabinet Capacity

Catalog Number	Splice	25-Pair Load Coil	— Cross-Connect —		— Subscriber Terminal —	
			Feeder	RLS25 Distribution	Repeater Units CM8	82A
UPCBDS100	1000 pair	2	75	75	2	2
UPCBDS200	2400 pair	6	100	125	3	4
UPCBDS300	3200 pair	6	100	125	3	4

NOTE: Total number of pairs spliced are dependent on connector use and local practices. There are two mounting plates included in the UPCBDS100, and three mounting plates included in the UPCBDS200 and UPCBDS300. An additional High Activity Kit doubles closure capacity (High Activity Kit plate holds three BT25 blocks per plate). Additional positive grounding of protected terminal blocks must be provided.

Accessories

Catalog Number	Part Number	Description
PADMT100	F605640	Pad-mounting bracket for UPCBDS100
PADMT200300	F605650	Pad-mounting bracket for UPCBDS200 and UPCBDS300
P93406	F593406	RLS/CQF mounting plate, 900 pair for UPCBDS300

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OPFOBD7 & OPFOBD7PL Fiber Optic Splice Cabinet

■ Outside Plant for
Business-Critical Continuity

Key Features

- Accommodates most splice closures for installation flexibility
- Large capacity is ideal for high-density cable runs
- Hinged, removable front doors and removable cap provide easy access to equipment and cable
- Grounding system provides positive grounding of all components
- Stake, pad, or aerial mountable fits a wide variety of applications
- Cable management posts provide excess cable storage capability
- Closed-cell weather-stripped door edges protect all equipment from the weather
- Positive-action three-point lock offers security from unauthorized entry
- Rugged metal housing made of mill-galvanized steel for durability and low maintenance costs
- Our unique multi-stage paint process meets or exceeds standards, and provides a tough corrosion-resistant finish for longer life

Description

The OPFOBD7 is a large capacity weather-resistant cabinet designed to protect fiber optic splices in both buried and aerial distribution systems. The OPFOBD7's universal mounting strap accommodates most splicing closures. The fiber splice capacity is limited only by the size of the splice closure. Cable management posts allow storage of up to 150 feet (50 meters) of outside plant cable. A ground bar, weather-stripping, and mounting hardware are included for both aerial or buried distribution closures.

The aerial distribution version, OPFOBD7PL, includes pole-mounting bracket.

Buried distribution can be accomplished in three different ways: stake mounted, recessed mounted or surface pole-mounted. The standard OPFOBD7 includes stakes and recessed pad-mounting brackets.

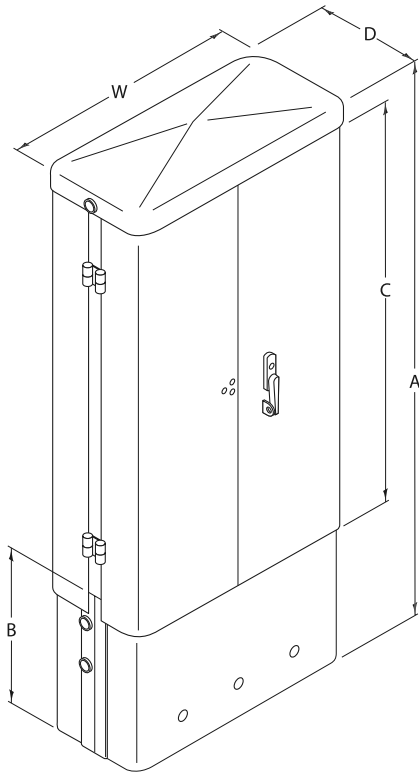
To surface pad mount, use the PADMT200300 kit with two brackets that can be attached either inside or outside of the base. This kit is not included and must be ordered separately.

Application

The OPFOBD7 serves as an above-grade housing for the storage and security of fiber optic splice closures and excess outside plant fiber optic cables.



OPFOBD7 & OPFOBD7PL Fiber Optic Splice Cabinet



OPFOBD7
Stake/Pad-Mount Version Shown

Dimensions Pad-Mount OPFOBD7

A	B	C	D	W
54.75-in.	14-in.	40-in.	11.38-in.	23.75-in.

Dimensions Pole-Mount OPFOBD7PL

A	B	C	D	W
N/A	N/A	41-in.	11.38-in.	23.75-in.

Ordering Information

Catalog Number	Part Number	Description
OPFOBD7	F112503	Buried pad-mount splice cabinet, with two stakes (MS1342) and two recessed pad-mounting brackets (BA12)
OPFOBD7PL	F112538	Aerial pole-mount splice cabinet with pole-mounting bracket (P11747) and 1 rear cable entry kit

NOTE 1: Cabinets are not interchangeable. The base is not included in the pole-mount version (Catalog Number OPFOBD7PL).

NOTE 2: OPFOBD7PL and OPFOBD7 are compatible with Emerson FiberSeal™ splice closures, AT&T® UCB1/2500/2600, Siecor SC5-002, AMP 501102-3 (OPFOBD7PL only), AMP 501346-1 (OPFOBD7 only), 3M 2177, Preformed Line Cases (6.5-in.), and Raychem 100D.

Accessories

Catalog Number	Part Number	Description
PADMT200300	F605650	Surface mounting kit with two brackets for inside or outside mounting
OPFOBD7CEK	F112496	Cable entry kit for OPFOBD7PL

NOTE: For detailed information, see the Accessories section at the end of this catalog.

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OSPD5-140300 / 0706

Key Features

- Split-collar cable entry for safe and easy cable installation
- Split-tip cable entry-panel row by panel row allows cable to be pre-connectorized before installation and permits future growth panel by panel
- Six adjustable splice bars with insulated coverings provides flexibility for “waterfall” cable configurations
- Localized grounding stud permits cable sheath to be bonded and grounded right at sheath openings
- Grommeted and plugged tip openings provide protection against cable chaffing and sealing of non-used tip openings
- Interchangeable top and bottom panels for ease of use in CEV or central office applications
- Meets Telcordia specifications; UL Listed to meet or exceeds documented performance levels
- UL Listed grommets provide a functional strain relief

Description

The UL Listed CRF (Cable Rearrangement Facility) provides a high-density 5400-, 6600- or 7200-pair metallic cable splicing facility that facilitates cable storage and organization for CEV and indoor central office applications. The CRF is manufactured of heavy gauge mill-galvanized steel, treated with a unique finishing process for longer life.

The 5400-pair CRF has 54 tip cable openings (9 across, 6 deep) and three cable ports with 3.25-in. diameter openings.

The 6600-pair CRF has 66 tip cable openings (11 across, 6 deep) and four cable ports with 4.12-in. diameter openings.

The 7200-pair CRF has 72 tip cable openings (12 across, 6 deep) and four cable ports with 4.12-in. diameter openings.

The Reversed CRF is used for central office applications. The cable ports and cable tip openings are interchangeable, allowing feeder cables from CO vaults to enter the bottom of the CRF and tip cables from overhead racking to enter the top. In this application, 100-pair tip cables from 22 to 26AWG may be used.

Application

The CRF is used primarily in CEV and central office applications for feeder/distribution and tip cable applications. The CRF may also be applied in building entrance situations for cable storage and building distribution.

Accessories

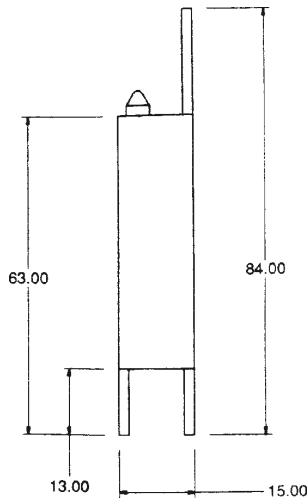
GBCRF, F039825 (ordered separately):

The CRF tip cable ground bar has six available grounding positions utilizing a 3/8-in. hex head bolt for use with a standard 216-type tool. Ground bars can be custom mounted which allows proper placement of the ground bar to satisfy the requirements of each situation.

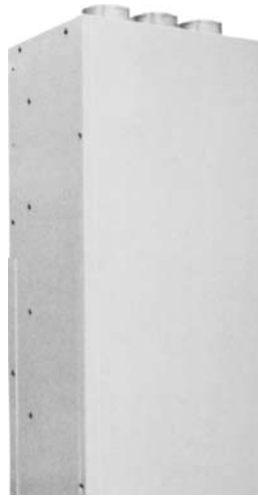


CRF66A
6600-pair

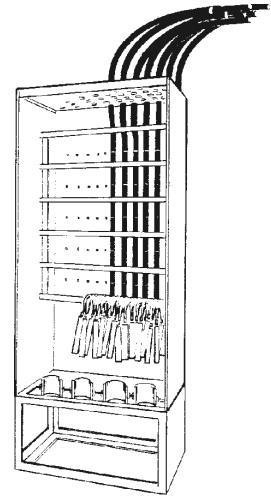
CRF Cable Rearrangement Facility



Dimensions
(Standard CRF Shown)



CRF with Cover



Reversed CRF
(RV Suffix)

Dimensions

CRF* Size	H*	W	D
5400-pair	63-in.	21.2-in.	15-in.
6600-pair	63-in.	26.5-in.	15-in.
7200-pair	63-in.	28.75-in.	15-in.

* For CEV applications, L brackets are included in the loose parts package for mounting the CRF to overhead framework. When the L brackets are used, total height will equal 84 inches. Brackets are not included with reversed CRF-RV style.

Ordering Information

Catalog Number	Part Number	Cable Ports	Tip Cable Openings	Cable Capacity	Tip Cable Gauge	Recommended Use
CRF54A	F039800	3	54	5400	24-26	CEV, Building Entrance
CRF66A	F039810	4	66	6600	24-26	CEV, Building Entrance
CRF72A	F039790	4	72	7200	24-26	CEV, Building Entrance
CRF54ARV	F000899	3	54	5400	22-26	Central Office (Reversed)
CRF66ARV	F039813	4	66	6600	22-26	Central Office (Reversed)
CRF72ARV	F039791	4	72	7200	22-26	Central Office (Reversed)

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One-Pair Outdoor Distribution Point Units

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Key Features

- Covers have a stainless bead chain affixed to the mounting brackets to prevent cover loss during servicing
- Brass terminals are corrosion-resistant for long life

Description

Outdoor distribution point units feature either aluminum or plastic bases, brass terminals, and drawn aluminum or plastic covers. The mounting brackets are made of formed aluminum.

Aluminum covers have a stainless bead chain affixed to the mounting brackets to prevent cover loss during servicing.

Application

One-pair outdoor distribution point units are used for open wire circuits and long drop wire runs. The 5500 series are for use on one-pair open wire, RDW (Rural Drop Wire), or figure 8 service drop applications.



5502

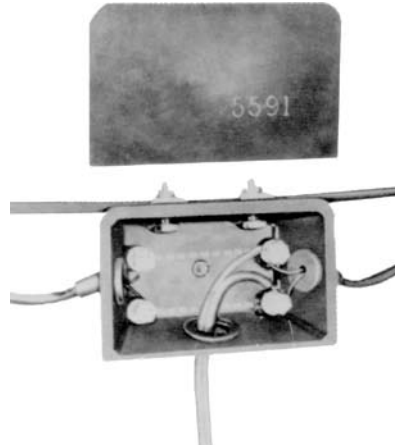
One-Pair Outdoor Distribution Point Units

Ordering Information

Catalog Number	Part Number	Description
5502	F005310	Pole or cross-arm mounted single-pair distribution point. Aluminum and ceramic base with aluminum cover. Cover is held captive by a chain. Two brass binding posts, nuts, and washers.
5533	F005320	Pole or cross-arm mounted single-pair distribution point. Resin-filled plastic base and 2 brass binding posts with nuts, and washers. Weather-tight neoprene cover.
5591	F005965	For use on figure 8; single-pair distribution wire for service drop applications. Phenolic base clamps directly to messenger wire. Three service ports and brass terminal posts, plus brass nuts and washers.



5533



5591

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PMP

Description

The NEW mobile home post (MHP) is a heavy-gauge three position U-shaped channel post on which a 3.5-in. x 20.0-in. adjustable multi-position mounting plate is attached. The mounting plate provides universal mounting slots that will accept a variety of Network Interface Devices and station protectors. The elongated oval service wire holes help eliminate any sharp bending of service wires as they exit from behind the mounting plate to the protector unit. The slots provided in the channel posts are used for cable ties to help secure service wires inside the U-shaped channel.

The PMP posts are designed for mounting one- or two-pair station protection. The posts are manufactured of heavy gauge mill-galvanized steel, treated with a unique gray-green finishing process for longer life.

Application

The NEW MHP is designed for mounting one or more Network Interface Device or station protector in mobile home parks or anywhere a mobile home trailer is used and buried service wires are used to provide telephone or CATV service. This design replaces our two current mounting posts.

Mounting Posts

Ordering Information

Catalog Number	Part Number	Description
MHP	F602202	Multi-position mobile home post, adjustable to 36.5-in., 42.5-in. and 48.5-in.
PMP38	F604370	Protector mounting post, 38-in., 3-in. x 5-1/2-in. mounting plate
PMP50	F604380	Protector mounting post, 50-in., 3-in. x 5-1/2-in. mounting plate

NOTE: MHP will mount one and two pair station protectors and the following network interface devices (NIDs): Keptel Series SNI 1100/1200. 2100/2200, 4300, 4600, 4600xl - Seicor Series SNI CAC900, 7600, 9600, MLP600, NI2006, ONI200 - Joslyn Series 7005, 7032, 7090 - TII Series 3610H, 3710H



MHP

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OSPDS-026700 /0106

RLS Series IDC Terminal Block

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Key Features

- No special tools required for ease of installation
- Silicone grease-filled connectors provide moisture resistance and longer life termination
- Pair-at-a-time IDC termination allows fast, easy jumpering with no wire stripping
- Half-tap capability permits multiple appearances of jumper wire
- Variety of harness lengths and connectors for ease of use and consistency with telco standards
- Available installed in cross-connect and building entrance terminals to fit a variety of applications
- Designed to meet Telcordia 1195 specifications to ensure reliable performance

Description

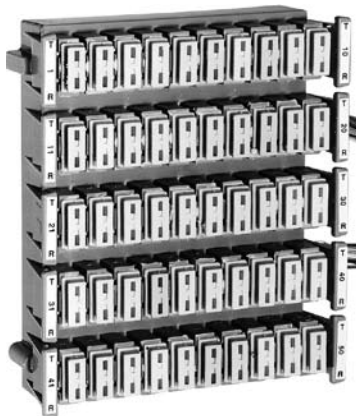
The RLS series blocks consist of compact, IDC (insulation displacement connection) wire connectors, which provide fast, easy connection of 22 to 26 gauge (.4 to .6 mm) wire. Each connector is silicone-grease filled with tin-plated terminals, providing maximum environmental protection for terminated pairs.

The RLS series includes blocks for 2- to 50-pairs. Pair-at-a-time wire termination is accomplished by lifting the RLS activator, inserting a pair of unstripped wires into the appropriate slots on the activator, and pressing firmly down on the activator.

The 2- and 5-pair blocks are internally wired, with RLS input and output. The 10-, 25-, and 50-pair blocks are potted on the rear side of the block, and are available in a variety of harness lengths, with or without connectors.

Application

The RLS family of blocks is a flexible terminal block that can be employed in a wide variety of cross-connect or building entrance applications. These blocks are ideal for outdoor use.



RLS50



Wires Inserted into RLS Activator

RLS Series IDC Terminal Block



RLS2X2

Dimensions

Catalog Number	H	W	D
RLS2X2	1.06-in. (2.69 cm)	2.66-in. (6.76 cm)	1.50-in. (3.81 cm)
RLS5X5	1.06-in. (2.69 cm)	5.50-in. (13.97 cm)	1.50-in. (3.81 cm)
RLS10	1.06-in. (2.69 cm)	5.50-in. (13.97 cm)	1.50-in. (3.81 cm)
RLS25	5.38-in. (13.67 cm)	2.88-in. (7.32 cm)	1.50-in. (3.81 cm)
RLS50	5.68-in. (13.67 cm)	5.06-in. (12.85 cm)	1.50-in. (3.81 cm)

Ordering Information

Catalog Number	Part Number	Pair Count	Input	Description
RLS2X2*	F016996	2	RLS IDC	Internally wired unit
RLS5X5*	F016998	5	RLS IDC	Internally wired unit
RLS10	F016997	10	26 AWG harness	Equipped with 5.5-ft. (1.68 m) harness
RLS25	F017812	25	26 AWG harness	Equipped with 2.5-ft. (0.76 m) harness
RLS254	F001095	25	26 AWG harness	Equipped with 4-ft. (1.21 m) harness & 3M 4005-DPM connector
RLS25DPM	F017814	25	MS2	Equipped with 6-ft. (1.82 m) harness & 3M 4005-DPM connector
RLS255DPM	F005313	25	MS2	Equipped with 5-ft. (1.52 m) harness & 3M 4005-DPM connector
RLS25CF	F005315	25	710	Equipped with 6-ft. (1.82 m) harness & 710 connector
RLS50	F016950	50	26 AWG harness	Equipped with 7-ft. (2.13 m) harness
RLS50DPM	F016945	50	MS2	Equipped with 6-ft. (1.82 m) harness & 3M 4005-DPM connectors
RLS507FT3M4005	F003043	50	MS2	Equipped with 7-ft. (2.13 m) harness & 3M 4005-DPM connectors
RLS507FT3M4000	F003044	50	MS2	Equipped with 7-ft. (2.13 m) harness & 3M 4000-D connectors
RLS50CBM6	F016941	50	MS2	Equipped with 6-ft. (1.82 m) harness & 3M 4005-CBM connectors
RLS50PVC20	F300300	50	26 AWG stub	Equipped with 20-ft. (6.09 m) PVC-sheathed cable stub

* With the exception of the RLS2X2 and RLS5X5, when used in cross-connect applications, the input termination style listed refers to the feeder side termination. The output termination style would, of course, be reserved for the distribution side.

NOTE: For other harness lengths and/or connector types, please contact your Emerson customer service representative.

Accessories

Catalog Number	Part Number	Description
RLSACTGRAY10	F567272	Gray replacement activators, 10/pkg.
P71082	F571082	Red RLS activators, 5/pkg.
RLSTEST1	F019128	1-pr. tester with 5-ft. leads & ring terminals for RLS and 3M SS-25
RLSTEST1PKT	F019127	1-pr. pocket tester w/ring terminals for RLS and 3M SS-25
TS50RLS1S	F019139	50-pr. stackable test shoe for RLS50 w/carrying case
P53828	F553828	Red special service caps, 30/pkg.
P60209	F560209	Half-tap activator, 80/pkg.

NOTE: For testing equipment, tools, labels, and other accessories, please see the Accessories section of this catalog.

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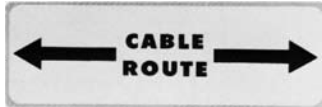
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1DC41210 (Steel)



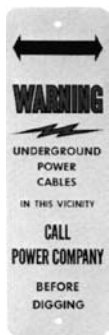
1SP41232 (Aluminum)



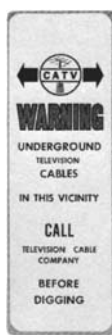
1DC4122 (Steel)



1DC4125 (Steel)



1DC4121 (Steel)



1DC4123 (Steel)

Description

The 412 (4" x 12") series warning signs are available for telephone, CATV, and fiber optic buried cable and cable routes.

The telephone and CATV buried cable signs are vertical warning signs available in steel or aluminum. Both steel and aluminum versions have black print over a yellow background, and a clear coating for durability. The steel version has a pressure sensitive label attached to a painted (green) plate. The aluminum version is silk screened onto the plate.

The horizontal 412 cable route signs are available in either steel or aluminum. Both versions have black print over a yellow background, and a clear coating.

Fiber optic cable warning signs that serve the Bell, CATV, or independent telephone markets are available in aluminum only. These signs have black print over an orange background and a clear coating.

NOTE: Use the 412 series sign posts if two signs are placed on the post; use either 412 or 1300 series if one sign is placed on the post.

Ordering Information

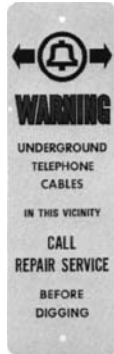
Catalog Number	Part Number	Description	Metal Type
Cable Routing Signs			
1DC41210	F606890	Cable route sign (yellow)	Steel
1SP41232	F607050	Cable route sign (yellow)	Aluminum
Steel Buried Cable Signs			
1DC4122	F606910	Buried cable sign, Independent (yellow)	Steel
1DC4125	F606930	Buried cable sign, Bell (yellow)	Steel
1DC4123	F606920	Buried cable sign, CATV (yellow)	Steel
1DC4121		Buried cable sign, Independent (yellow)	Steel

NOTE: Mounting hardware is included. Additional mounting hardware is available (Catalog Number ALP358, Part Number F601765).

412 Series Signs



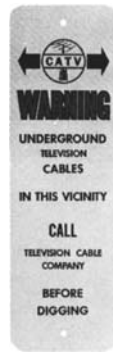
1SP4121
(Aluminum)



1SP4122
(Aluminum)



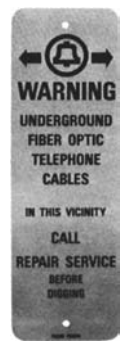
1SP41233
(Aluminum)



1DC41247
(Aluminum)



1SP4121FIBER
(Aluminum)



1SP4122FIBER
(Aluminum)

Ordering Information

Catalog Number	Part Number	Description	Metal Type
Aluminum Buried Cable Signs			
1SP4121	F607000	Buried cable sign, Independent (yellow)	Aluminum
1SP4122	F607010	Buried cable sign, Bell (yellow)	Aluminum
1DC41247	F607070	Buried cable sign, CATV (yellow)	Aluminum
1SP41233	F607060	Buried cable splice sign (yellow)	Aluminum
1SP4121FIBER	F607001	Buried fiber optic cable sign, Independent (orange)	Aluminum
1SP4122FIBER	F607011	Buried fiber optic cable sign, Bell (orange)	Aluminum
1SP4123FIBER	F607003	Buried fiber optic cable sign, CATV (orange)	Aluminum

NOTE: Mounting hardware is included. Additional mounting hardware is available (See Accessories).

Accessories

Catalog Number	Part Number	Description
ALP358	F601765	412 series sign mounting hardware

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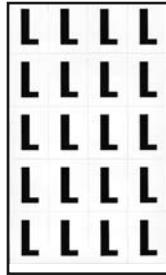
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UP33GN3



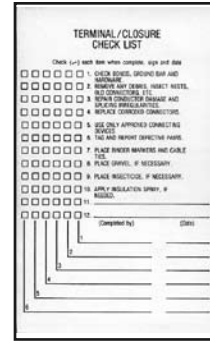
UP33YLL



UP35 (G or Y)



UP35MY



DC226



UP37Y
(BD Series Clos)

Ordering Information & Dimensions

Catalog Number	Part Number	Description	Height	Width
UP33GL_*		Letters, 40 pcs. of same letter A-Z, white on green	1-1/2"	1"
UP33GN_*		Numbers, 40 pcs. of same number 0-9, white on green	1-1/2"	1"
UP33YL_*		Letters, 40 pcs. of same letter A-Z, black on yellow	1-1/2"	1"
UP33YN_*		Numbers, 40 pcs. of same number 0-9, black on yellow	1-1/2"	1"
UP33GLAZ	F600620	Decal kit letters, 40 per pack of A-Z, white on green	1-1/2"	1"
UP33GN09	F600890	Decal kit numbers, 40 per pack of 0-9, white on green	1-1/2"	1"
UP33YLAZ	F601010	Decal kit letters, 40 per pack of A-Z, black on yellow	1-1/2"	1"
UP33YN09	F601280	Decal kit numbers, 40 per pack of 0-9, black on yellow	1-1/2"	1"
UP33YLDASH	F601050	Decal, dash, 40 per pack, black on yellow	1-1/2"	1"
UP33GLDASH	F600660	Decal, dash, 40 per pack, white on green	1-1/2"	1"
UP35G	F600130	Caution buried cable, Independent, blue on green (10 pk)	4-1/2"	3-1/2"
UP35Y	F600150	Caution buried cable, Independent, black on yellow (10 pk)	4-1/2"	3-1/2"
UP35MY	F600080	Caution buried cable, Independent, black on yellow, RDUP accepted (10 pk)	6"	3"
UP37Y	F600110	Caution buried cable, 10 per pack, CATV, black on yellow	4-1/2"	3-1/2"
DC226	F600060	Decal checklist, black on white	5-5/8"	3-1/2"

* To order, add the desired letter or number to the end of the Catalog Number. For zero and the letter "o" order UP33GNL00 (green) or UP33YNL00 (yellow). For six and nine, order UP33GN69, green or UP33YN69, yellow. For "W" order using "M".

NOTE: Our adhesive backed pressure sensitive decals are made of vinyl or Mylar with silk-screened print used for identifying equipment closures.

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412 Sign Post
Shown with Signs
(ordered separately)

Description

The 412 series, 1300 series, and 2500 series sign posts are U-shaped all-purpose sign posts manufactured of heavy gauge mill-galvanized steel, treated with our proprietary gray-green paint for longer life. For additional sign mounting hardware, order ALP358.

The 412 series sign posts have a 13/16 inch deep U-channel with combined slotted and round holes spaced at convenient intervals for mounting signs (see diagram on next page).

The 1300 series sign posts have a 1-1/32 inch deep U-channel with round holes spaced at convenient intervals for mounting signs (see diagram on next page).

The 2500 series sign posts have a 1-1/32 inch deep U-channel with round holes spaced at 1 inch intervals for mounting signs (see diagram on next page).

Vertical mounted sign has vertical mounting center of 10-1/2 inches. Horizontal mounted sign has vertical mounting hole center of 2-1/4 inches.

Application

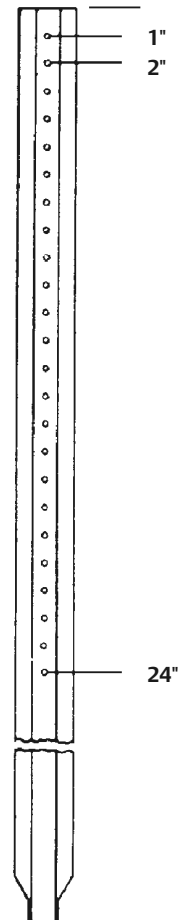
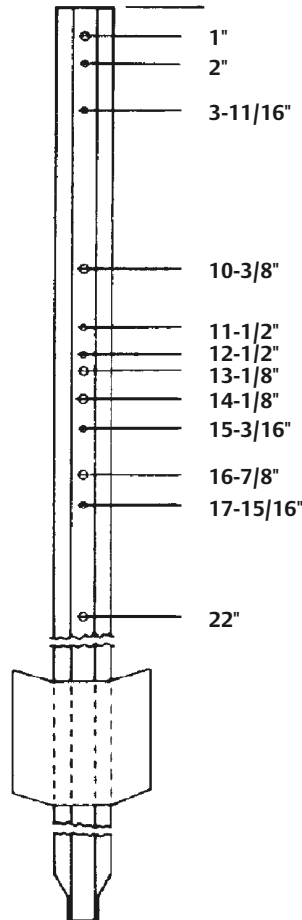
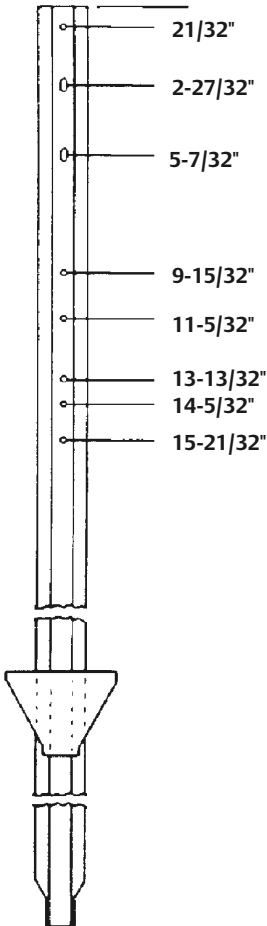
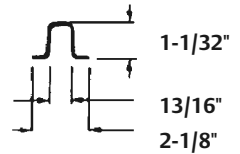
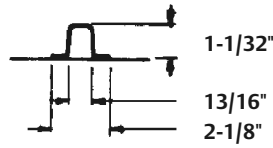
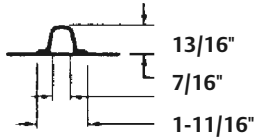
The 412, 1300, and 2500 series sign posts mount warning signs and cable route signs.

Ordering Information

Catalog Number	Part Number	Description
UP412072	F601990	412 series post, 72-in. tall, 5 lbs.
UP412096	F602040	412 series post, 96-in. tall
UP1372T	F601960	1300 series post, 72-in. tall
UP1396T	F601950	1300 series post, 96-in. tall
UP2572	F602170	2500 series post, 72-in. tall
UP2596	F602180	2500 series post, 96-in. tall, 8.2 lbs.
PS412572	F601991	72-in. 412 post w/F606930 sign
PS412272	F601992	72-in. 412 post w/F607010 sign

412, 1300 & 2500 Series Sign Posts

Specifications



412 Series
Accepts Two 412 Signs
One Vertical
One Horizontal
(See Description)

1300 Series
Accepts One Vertical
412 Sign Only

2500 Series
(Drilling required to
mount Emerson signs)

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25 & 50-Pair Protected Terminal Blocks & Closures

■ Outside Plant for
Business-Critical Continuity

Key Features

- Terminal clips and studs are bright-acid tin-plated to provide corrosion resistant connections
- High-impact shell; polyurethane potting offers durability and long service life
- Quick-clip or binding terminal types, stubbed or stubless allow customizing for various requirements
- Choice of carbon, gas, or solid-state protection meets requirements of varied installations
- Available with new JZ gas technology for environmentally robust protection
- UL Listed when installed in UL Listed closure to assure quality performance

Description

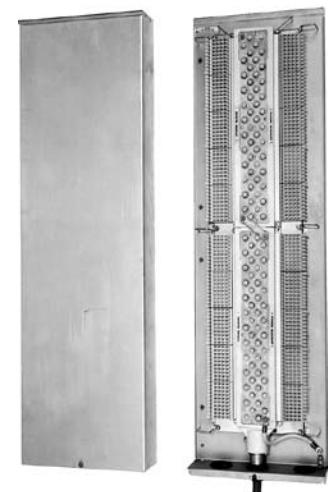
The 25 and 50-pr. series of protected terminal blocks provide a system for terminating incoming cables and station pairs at the subscriber premises. These blocks are available in two termination types (quick-clip or binding terminal), and each can be ordered stubbed or stubless. Protection is provided by industry standard screw-in arresters and may be ordered with gas, carbon, or solid-state protection. To complete this system, a weather-tight aluminum closure is offered for 25 and 50-pr. configurations. The closure is accessed using a 216-type tool.

The quick-clip type termination fields are available in four clip multiples, as well as split-clip arrangements. Blocks can have one or two terminal fields. Single-field blocks are wired directly to the protectors. If stubbed, the stub is also wired directly to the protectors. Single-field blocks are a lower cost alternative if cross-connect capability is not needed. Double-field blocks have a protected field and a cross-connect field. The protected field is used to terminate the OSP cable and the cross-connect field terminates subscriber wires; it is not connected to the protectors. In normal applications, jumper wires are used to connect the protected field to the cross-connect field.

All blocks are constructed of a high dielectric, self-extinguishing thermoplastic and are marked for protected and unprotected pairs.

Application

The 25 and 50-pr. series terminal blocks are used at apartment buildings or medium-density commercial or industrial buildings where the maximum feeder cable is 50-pr. or less. They are used where protection is required and cross-connection of feeder and subscriber cable pairs is desired. The units may also be used as a demarcation point for connecting to interconnect systems. The R66 quick-clip series is an indoor application only. The Binding Post series is suitable for both indoor and outdoor applications.

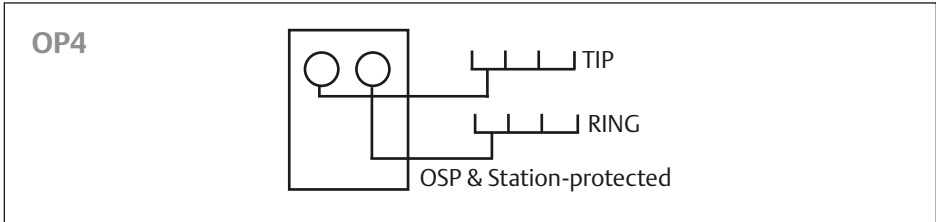


50VSR4X4D7MH
Stubbed with Housing
(38.06"H x 11.16"W x 3.45"D)

25 & 50-Pair Protected Terminal Blocks & Closures

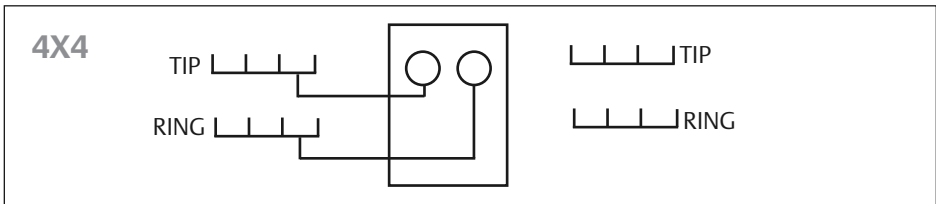
Quick-clip Internal Wiring

OSP termination on first clip; terminate up to 3 stations on clips 2, 3 and 4.



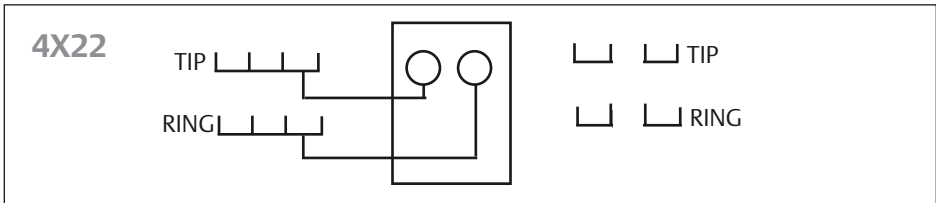
NOTE: Protection may be wired to OSP field, station field, or both.

Terminate OSP on clip 1 left side; terminate up to 3 extensions on clips 2, 3 and 4 right side; and cross-connect OSP to station by jumpering. Two additional stations may be terminated on clips 2 and 3 on the left side.



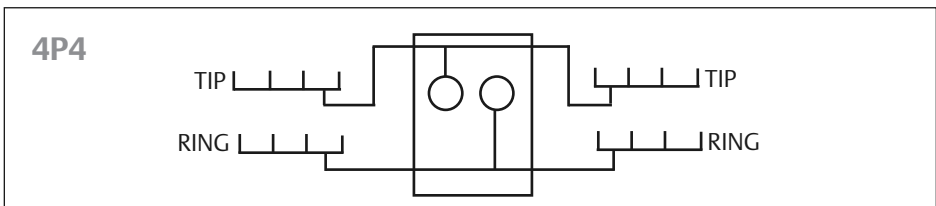
NOTE: OSP Protected Station cross-connect not protected unless jumpered to OSP.

Terminate OSP on left side; terminate station on clip 4 right side. Cross-connect by jumpering from left side to clip 1 right side. Use bridge clip to connect clips 2 and 3 right side. Remove bridge clip to test CO and subscriber wiring without removing jumper or wires.



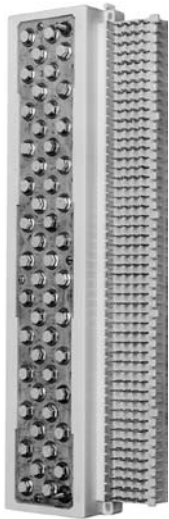
NOTE: OSP Protected Station cross-connect not protected unless jumpered to OSP.

OSP can be connected to any clip; up to seven subscriber stations may be connected to remaining clips.

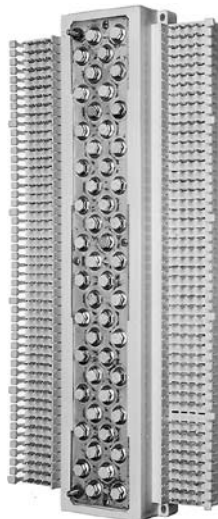


NOTE: OSP & Station-protected OSP & Station-protected.

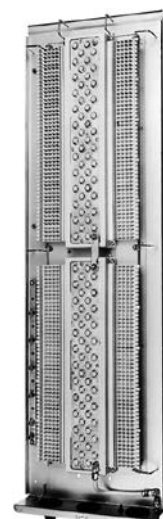
25 & 50-Pair Protected Terminal Blocks & Closures



25VSR0P4
25-Pair
Stubless with Quick-clips
(16.00"H x 8.35"W x 2.50"D)



25VSR4X4
25-Pair
Stubless with Quick-clips
(18.90"H x 6.17"W x 2.50"D)



50VSR4X4MH
50-Pair
Stubless with Quick-clips
Metal Housing
Shown without Cover
(38.06"H x 11.16"W x 3.45"D)

Ordering Matrix (Stubless with Quick-clips)

Pair Count	25 = 25-pr.
Protection	P = Carbon VSR = Gas [meets RDUP requirements] JZ = Super Duty 1305VSB Gas, Bell/Independent, 350-380V T = Solid-state
Clip Configurations	0P4 = 4 clip station field only 4P4 = 4 clip OSP field and 4 clip station field (all clips protected) 4X4 = 4 clip OSP field and 4 clip station field 4X22 = 4 clip OSP field and split 2x2 clip station field
Housing (Optional)*	MH = Metal housing blank = No housing

* Housing required for 50-pr. stubless. NOTE: UL Listed when installed in UL Listed closure.

Ordering Information

Catalog Number	Part Number	Description
25P4X4MH	F019068	25-pair, carbon protection, 4 clip OSP field & 4 clip station field, metal housing
25VSR4X4MH	F019075	25-pair, gas protection, 4 clip OSP field & 4 clip station field, metal housing
50P4X4MH	F019083	50-pair, carbon protection, 4 clip OSP field & 4 clip station field, metal housing
50VSR4X4MH	F019082	50-pair, gas protection, 4 clip OSP field & 4 clip station field, metal housing

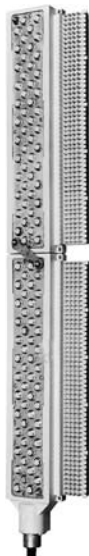
25 & 50-Pair Protected Terminal Blocks & Closures

Ordering Matrix (Stubbed with Quick-clips)

Pair Count	25	=	25-pr.
	50	=	50-pr.
Protection	P	=	Carbon
	VSR	=	Gas (meets RDUP requirements)
	JZ	=	Super Duty 1305VSB Gas, Bell/Independent, 350-380V
	T	=	Solid-state
Clip Configurations	0P4	=	4 clip station field only
	4X4	=	4 clip OSP field and 4 clip station field
	4X22	=	4 clip OSP field and split 2x2 clip station field
Stub Direction	D	=	Stub down
Stub Length*	7	=	7-ft. stub, 24AWG
	12	=	12-ft. stub, 24AWG
	25	=	25-ft. stub, 24AWG
Housing (Optional)	MH	=	Metal housing
	blank	=	No housing

* Additional stub lengths available, call Emerson.

NOTE: UL Listed when installed in UL Listed closure.

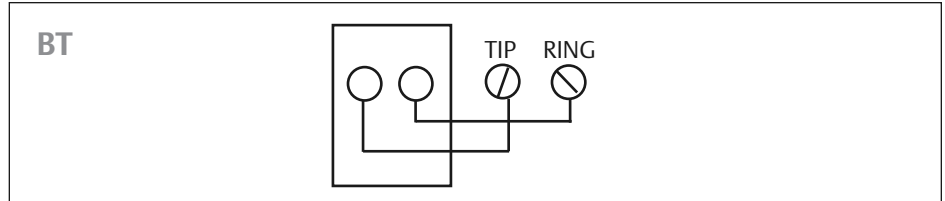


50VSR0P4D7
50-Pair Stubbed with Quick-clips
(34.90"H x 6.17"W x 2.50"D)

25 & 50-Pair Protected Terminal Blocks & Closures

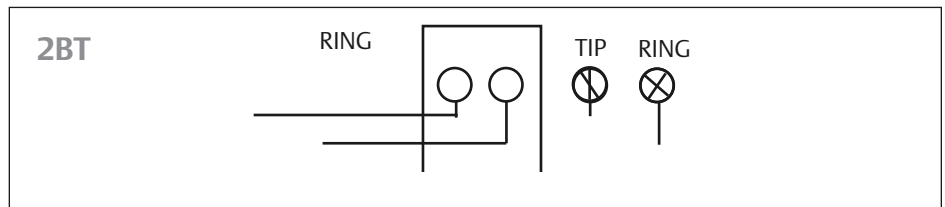
Binding Terminal Internal Wiring

Outside plant and station termination takes place on right side.

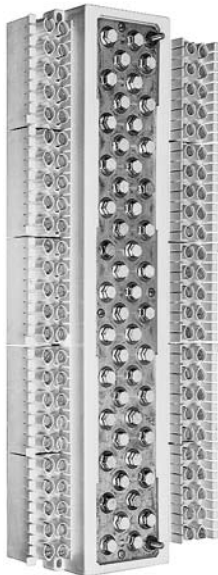


OSP & Station Protected

Terminate OSP on left; terminate station on right; cross-connect by jumpering from left to right.



OSP Protected Station Cross Connect Not Protected Unless Jumpered to OSP



2BT25VSR
25-Pair Stubless
with Binding Terminals
(16.00"H x 7.39"W x 2.50"D)

Ordering Matrix (Stubless with Binding Terminals)

Terminal Block	2BT = 2-Field Block
Pair Count	25 = 25-pr. 50 = 50-pr.
Protection	P = Carbon VSR = Gas (meets RDUP requirements) JZ = Super Duty 1305VSB Gas Bell/Independent, 350-380V T = Solid-state
Housing (Optional)*	MH = Metal housing blank = No housing

* Housing required for 50-pr. stubless

NOTE 1: These versions have screw terminals on both the OSP and station field.

NOTE 2: UL Listed when installed in UL Listed closure.

Ordering Information

Catalog Number	Part Number	Description
2BT25PMH	F019299	25-pair, 2-field terminal block, carbon protection, metal housing
2BT25VSRMH	F000445	25-pair, 2-field terminal block, gas protection, metal housing
2BT50PMH	F019310	50-pair, 2-field terminal block, carbon protection, metal housing
2BT50VSRMH	F000446	50-pair, 2-field terminal block, gas protection, metal housing



25 & 50-Pair Protected Terminal Blocks & Closures



BT25VSRD7

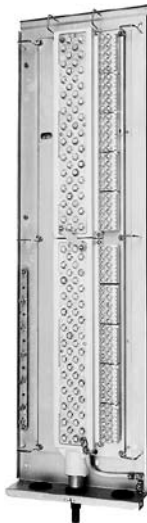
25-Pair Stubbed with BT Terminals
(18.90"H x 5.69"W x 2.50"D)

Ordering Matrix (Stubbed with Binding Terminals)

	BT = Terminal on station field and OSP field
	BT = Terminals on station field only
Pair Count	25 = 25-pr. 50 = 50-pr.
Protection	P = Carbon VSR = Gas meets RDUP requirements JZ = Super Duty 1305VSB Gas Bell/Independent, 350-380V T = Solid-state
Stub Direction	D = Stub down
Stub Length*	7 = 7-ft. stub, 24AWG 12 = 12-ft. stub, 24AWG 25 = 25-ft. stub, 24AWG
Housing (Optional)	MH = Metal housing blank = No housing

* Additional stub lengths available, call Emerson.

NOTE: UL Listed when installed in UL Listed closure.



BT50VSRD7MH (shown without cover)
50-Pair Stubbed with BT Terminals
(38.06"H x 11.16"W x 3.45"D)

Accessories

Catalog Number	Part Number	Description
25MH	F015290	Aluminum housing with cover (25-pr.) 22.9"H x 10.66"W x 03.45"D
50MH	F015292	Aluminum housing with cover (50-pr.) 38.06"H x 11.16"W x 03.45"D
GB18	F015134	Ground bar
R66C3PMB	F015132	Pole mounting bracket (recommended for BT-type blocks only)

NOTE: For additional accessories, see the Accessories section of the catalog.

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R134 Building Entrance Terminals

■ Outside Plant for
Business-Critical Continuity

Key Features

- Compact size requires minimum mounting space
- Choice of input/output modes to provide flexibility; material, installation and inventory cost savings
- Safety design offers simplified line testing and protection of open circuits when module is removed
- UL Listed with industry standard protector modules to allow choice of module vendor, wide module selection available
- RDUP

Description

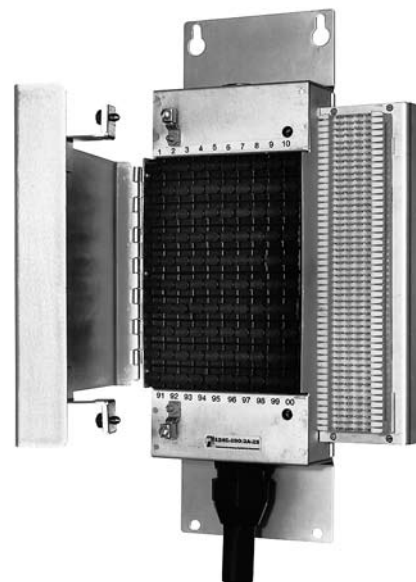
The R134 100-pr. series of building entrance terminals combine overvoltage and sneak current protection, and distribution, into compact, cost-effective units designed for indoor building entrance applications. The R134 series housings are aluminum and are supplied with two grounding lugs. Central office pairs are connected with a choice of three standard stub lengths or may be field spliced. The subscriber wires are connected with a choice of stub or quick-clip block.

All industry standard 5-pin protector modules are accepted by the R134 series; this includes carbon, gas, and solid-state heat-coil types. When the modules are pulled to the “detent” position, the outside cable pair remain protected while the inside cable is disconnected. This feature may also serve as a convenient testing arrangement. Please note that the R134s are supplied without protector modules (see R134 accessories).

The R134 series is available in 50- and 100-pr. sizes.

Application

These building entrance terminals protect, terminate and distribute up to 100 incoming cable pairs at the building entrance. They are for indoor use only, and are wall mountable.



R134C100AC6
Stub-In, Clip-Out


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R134 Building Entrance Terminals

Dimensions

Description	H	W	D
100-pr. stub-in, stub-out	17.8-in. (45.2)	5.7-in. (14.5)	3.6-in. (9.1)
100-pr. stub-in, 66 quick-clip-out	17.8-in. (45.2)	8.9-in. (22.6)	4.0-in. (10.2)
100-pr. FS wire-wrap in, 66 quick-clip out	17.8-in. (45.2)	8.9-in. (22.6)	4.0-in. (10.2)

Ordering Matrix

Protector Type	R134 = 134 type protector
Pair Count	100 = 100-pr.
Stub Length (stub-in & stub-out are equal)	6 = 6-ft. 12 = 12-ft. 25 = 25-ft.

NOTE 1: All stubbed versions have shielded 24AWG in and out cable.

NOTE 2: All R134 units are UL Listed.



R13410012
Bottom stub in, Top stub out

R134 Building Entrance Terminals

Stub in/Quick-clip Out Ordering Matrix

Protector Type	R134 = 134 Type Protector
Output	C = Quick-clip block
Pair Count	100 = 100-pr.
Cable	AC = 24AWG PVC Cable
Stub Length	6 = 6-ft. 12 = 12-ft. 25 = 25-ft.

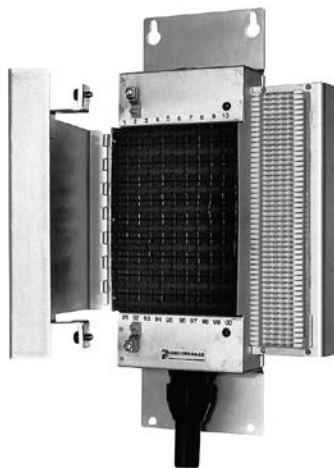
NOTE: Equipped with cover.

Stubless, Field Splice-in / Quick-clip Out Ordering Matrix

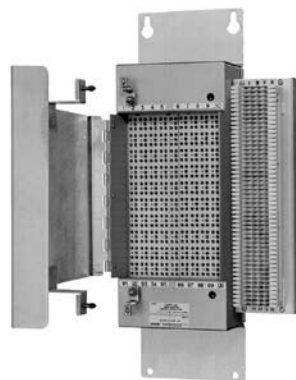
Protector Type	R134 = 134 Type Protector
Output	C = Quick-clip block
Pair Count	100 = 100-pr.
Input	FS = Field Splice

NOTE 1: Protected pairs are wire-wrapped to the quick-clip block and protector panel at the factory. Outside plant cable is wire-wrapped by the user to the empty pins on the rear of the protector panel.

NOTE 2: Equipped with cover.



R134C100AC6
Stub-In, Clip-Out



R134C100FS
Stubless, Clip-Out

R134 Building Entrance Terminals

Protector Modules

Catalog Number	Part Number	Description
3AB	F013751	Carbon only, black housing, UL Listed
4AB	F013752	Carbon & heat coil, black housing, UL Listed
6U2VS	F013829	350V, gas, orange housing, UL Listed, RDUP accepted
G4AVS	F013831	350V, gas & heat coil, orange housing, UL Listed
3GUVS	F013828	3 element 350V gas, orange housing, UL Listed, RDUP accepted for central office
S3AB	F013609	300V, solid-state, black housing, UL Listed
S3AR	F013612	300V, solid-state, red housing, UL Listed
S4AB	F013603	300V, solid-state, black housing, UL Listed
S4AR	F013608	300V, solid-state, red housing, UL Listed

NOTE 1: All protector modules are fail safe.

NOTE 2: See the Protection section of the catalog for additional modules.

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BEP Series Building Entrance Protectors

■ Outside Plant for
Business-Critical Continuity

Key Features

- Built-in splice chamber provides material and installation cost savings
- Lift-out protector panel facilitates installation; reduces inventory costs; is easy to repair
- Compact size requires minimum mounting space
- All units are stackable to accommodate future growth
- Gold-plated protector contacts minimize noise and customer complaints
- Rugged metal housing made of mill-galvanized steel for durability and low maintenance costs
- Designed to meet Telcordia TR-TSY-000299 and RDUP specifications for documented performance
- UL Listed with industry standard 5-pin protector modules (gas or solid-state); for documented performance
- 26AWG 18-in. fuse link for added protection
- Lock hasp provided for added security

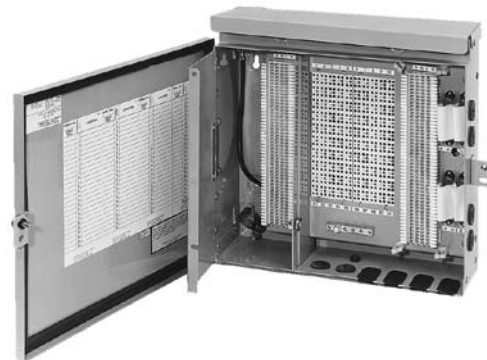
Description

The BEP series combine protection and distribution with a built-in splice chamber, for a single, compact, cost-effective unit designed for indoor building entrance applications. Central office pairs are connected with the following options: field splice, stub, 710 connectors, 3M® dry connectors, 66 quick-clip block, or 110-style block. The BEP series also offers a 26AWG fuse link for added protection. Subscriber wires are connected via the following options: 66 quick-clip, RJ21, 66 quick-clip and RJ21, 110-style block, or binding posts.

The BEP series is available in 25-, 50-, and 100-pr. sizes. The 100-pr. unit is stackable to 300-pr. (stacking kit included in 100-pr.). The protector modules can be included or purchased separately. The closure is accessed using a 216-type tool.

Application

The BEP series terminate, protect, and distribute central office cable pairs on the subscriber premises. They are ideal for use in multi-tenant dwelling and PABX installations.

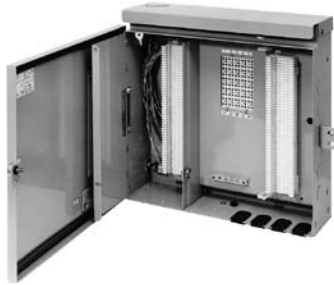


Quick-clip In/Quick-clip and RJ21 Out

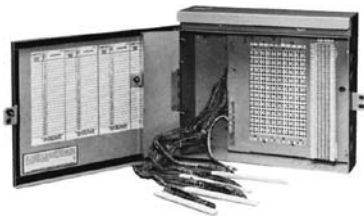

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BEP Series Building Entrance Protectors



**BEPC25C (25-pr.)
Quick-clip In & Out**



**BEPC100MM (100-pr.)
3M® Dry Connector In/Quick-clip Out**

Dimensions

Pair Count	H	— Housing Dimensions —	
		W	D
25/50/100	15.00-in. (38.10 cm)*	15.41-in. (39.14 cm)	4.7-in. (11.94 cm)

* 100-pr. with binding posts has a 36-in. (91.44 cm) height.

NOTE: All dimensions are measured in inches, with metric conversions in parentheses.

Ordering Matrix

Housing	BEP	=	Building Entrance Protector
Output	C	=	66 Quick-clip block
	G	=	RJ21 receptacle connector
	CG	=	66 Quick-clip block & RJ21 receptacle connector
	B	=	Binding posts
	T	=	110-style block
Pair Count	25	=	25-pr.
	50	=	50-pr.
	100	=	100-pr.**
Input	FS	=	Field Splice, 18-in. tail
	CF	=	710 connector, capless, receptacle, gel-filled, 18-in. tail, 26AWG fuselink
	MM	=	3M 4000-D dry (MS2), 18-in. tail, 26AWG fuselink
	C	=	66 Quick-clip block, 26AWG fuselink
	SC	=	24AWG cable stub
	T	=	110-style block, 26AWG fuselink
Cable Full Length (only if "sc" input)	6	=	6-ft.
	12	=	12-ft.
	25	=	25-ft.
	blank	=	Stubless

** 100-pr. includes stacking kit

NOTE: To order with 5 protector modules installed, call customer service.

Accessories

Catalog Number	Part Number	Description
P35980	F535980	Grommets for 1-in. diameter hole (pkg. of 20)
P47839	F547839	U-shaped grommet
P47147	F547147	Cup-sems with push nut (pkg. of 10)

NOTE: For additional accessories, see the Accessories section of the catalog.

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R399 & AR399 Central Office Connectors

■ Outside Plant for
Business-Critical Continuity

Key Features

- Maximum density saves space; increases number of protected cable pair per frame vertical
- Narrow block width provides large inter-vertical working space for fast, convenient jumper administration
- Front ground test point offers labor savings and reliability; provides a convenient place to attach an alligator clip without reaching behind the connector
- Accepts industry standard protector modules to permit a wide module selection
- Gold-plated protector module sockets and test field contacts provide superior electrical contact to eliminate noise problems
- Integral field-stubbing bracket saves costs; permits fast, easy field stubbing; no temporary mounting bracket needed
- UL Listed for documented performance
- Swivel stub design for up or down stub configuration facilitates ordering

Description

The R399 is the highest density 100-pair connector available that utilizes industry standard 5-pin protector modules and is UL Listed to meet specification number UL 497 and is RDUP accepted when used with S3AB, 3AB, 6A20, or 3GUVS protector modules. Its compact design, only 8.5-in. high, allows maximum density per frame vertical.

Made of a polycarbonate-blend, connectors can be factory stubbed with 22- or 24-gauge cable in 10-ft. increments, starting at 20 feet. The stub is complete with a moisture dam and grounding harness. The connector utilizes a 6AWG grounding harness and is available with or without isolated ground.

The connector is available in either a conventional, R399, or angled version, AR399. The angled version provides greater visibility and access to the protector module field, while retaining front access to both jumper field and test fields.

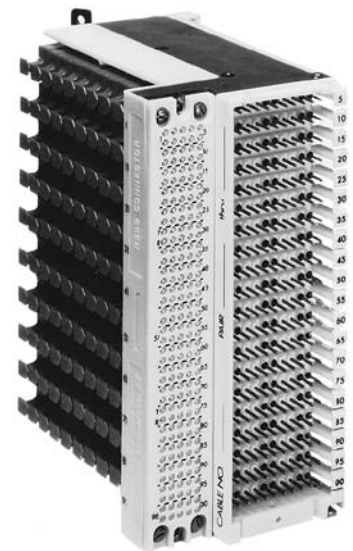
The front-facing equipment field offers a choice of termination: wire-wrap or bifurcated quick-clips. Front and rear snap-through fanning strips facilitate orderly jumpering and offer highly visible pair count identification. The 100-pair front-facing test field makes testing easy.

The R399 is RDUP accepted, UL Listed to meet specification number UL 497, and meets or exceeds the specifications set forth in Telcordia TA-EOP-000164 and GTE® GTS 8339 documents.

Application

The R399 protects personnel and equipment from abnormal voltages and currents on incoming cable pairs. It mounts on central office conventional frames with 8-in. centers, and 2500 and RDS modular frames from Emerson.

NOTE: 5-pin plug-in protection modules ordered separately.

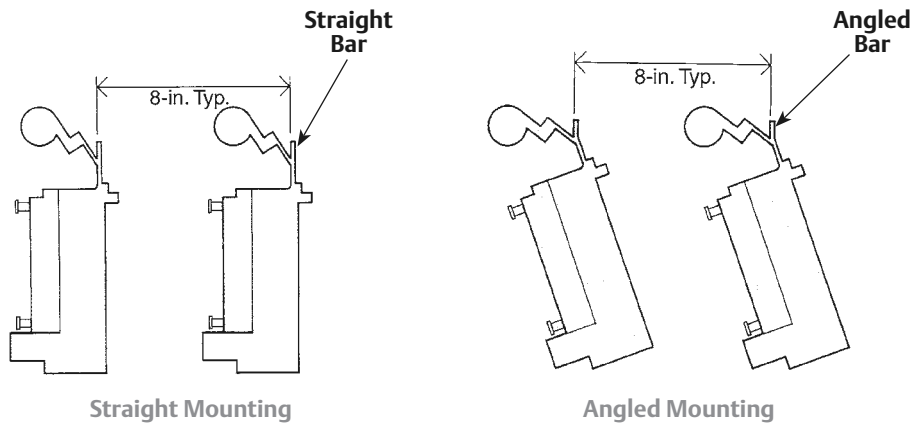


R399 Wire Wrap
(Stubless)


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R399 & AR399 Central Office Connectors



Dimensions

Connector	H	W	D
R399	8.5-in. (216 mm)	4.0-in. (104mm)	8.0-in. (203mm)

Specifications

Frame Height	Capacity Stub Up*	Capacity Stub Down
7-ft.	700-pair	800-pair
8-ft.	900-pair	1000-pair
9-ft.	1000-pair	1100-pair
11.5-ft.	1400-pair	1400-pair

* Reduction in stub up capacity is due to accommodating cable bend to overhead rack.

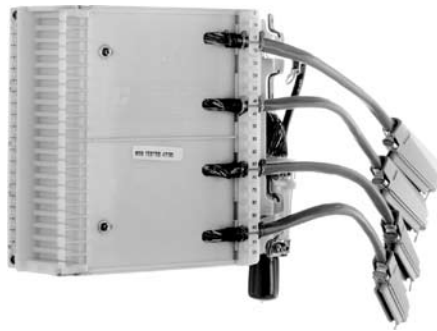
Ordering Matrix

Mounting Configuration	blank = Non-angled mount	A = Angled mount
Ground Configuration	blank = Conventional ground	S = Isolated ground
Connector Application	R399 = Standard ground, left mount RZ399 = For use on right side protector columns of RDS frame and 2500 frame RG399 = Connectorized equipment side (four, 25-pair receptacle connectors) RX399 = Less test fields	
Optional	C = Bifurcated quick-clip equipment field blank = Wire-wrap equipment field (and default for RG Series.)	
Stub Cable Gauge	A = 24 gauge, .96 dia. o.d.	B = 22 gauge, 1.17 dia. o.d.
Stub Cable Type	A = Alvyn	T = Two 22AWG cables*
Stub Length (20-ft. minimum in 10-ft. increments)		

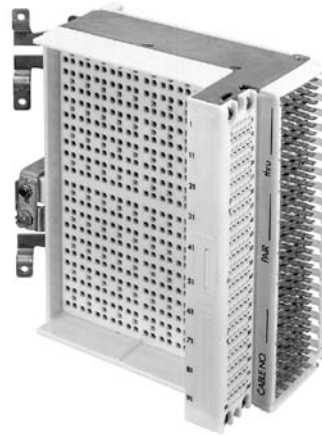
* T configuration provides an equivalent to T screen-type cable. Two 50-pair cables are secured together every three feet.

NOTE: Not all catalog numbers can be configured.

R399 & AR399 Central Office Connectors



RG399
Connectorized R399



R399C Bifurcated
(Stubless Shown)



Ordering Information: Stubless Connectors

Catalog Number	Part Number	Description
R399	F249001	Wire-wrap version*
AR399	F400200	Angle mount wire-wrap*
SR399	F249304	Isolated ground wire-wrap*
R399C	F249501	Bifurcated quick-clip (IDC)*
RX399	F249900	Without test field*
RX399CG	F249210	Without test field bifurcated quick-clip (IDC)*
RZ399C	F249400	Right mount with bifurcated quick-clips*

* The R399 is RDUP accepted when used with S3AB, 3AB, 6A20, or 3GUVS protector modules.

R399 & AR399 Central Office Connectors

Ordering Information: Stubbed Connectors — 24 AWG

Catalog Number	Part Number	Description
Quick-Clip Equipment Field		
R399CAA20	F249500	Connector, quick-clip equipment field, 20-ft. swivel stub
R399CAA30	F249507	Connector, quick-clip equipment field, 30-ft. swivel stub
R399CAA50	F249513	Connector, quick-clip equipment field, 50-ft. swivel stub
R399CAA60	F249919	Connector, quick-clip equipment field, 60-ft. swivel stub
R399CAA70	F249595	Connector, quick-clip equipment field, 70-ft. swivel stub
Wire-Wrap Equipment Field		
R399AA25	F249024	Connector, wire-wrap equipment field, 25-ft. swivel stub
R399AA50	F249008	Connector, wire-wrap equipment field, 50-ft. swivel stub
R399AA75	F249111	Connector, wire-wrap equipment field, 75-ft. swivel stub
R399AA100	F249045	Connector, wire-wrap equipment field, 100-ft. swivel stub
Connectorized Equipment Field		
RG399AA20	F249981	Connector, connectorized equipment field, 20-ft. swivel stub
RG399AA25	F249985	Connector, connectorized equipment field, 25-ft. swivel stub
RG399AA30	F249453	Connector, connectorized equipment field, 30-ft. swivel stub
RG399AA50	F253321	Connector, connectorized equipment field, 50-ft. swivel stub
Angle Mount, Wire-Wrap Equipment Field		
AR399AA20	F400201	Connector, wire-wrap equipment field, 25-ft. swivel stub
AR399AA50	F1001775	Connector, wire-wrap equipment field, 50-ft. swivel stub
Isolated Ground, Wire-Wrap Equipment Field		
SR399AA25	F249323	Connector, wire-wrap equipment field, 25-ft. swivel stub
SR399AA50	F249308	Connector, wire-wrap equipment field, 50-ft. swivel stub
SR399AA75	F249319	Connector, wire-wrap equipment field, 75-ft. swivel stub
SR399AA80	F249354	Connector, wire-wrap equipment field, 80-ft. swivel stub
SR399AA100	F249365	Connector, wire-wrap equipment field, 100-ft. swivel stub
Less Test Field, Wire-Wrap Equipment Field		
RX399AA50	F249821	Connector, wire-wrap equipment field, 100-ft. swivel stub
RX399AA100	F249578	Connector, wire-wrap equipment field, 100-ft. swivel stub
Less Test Field, Quick-Clip Equipment Field		
RX399CAA20	F249808	Connector, quick-clip equipment field, 20-ft. swivel stub
RX399CAA25	F249807	Connector, quick-clip equipment field, 25-ft. swivel stub
RX399CAA30	F249802	Connector, quick-clip equipment field, 30-ft. swivel stub

R399 & AR399 Central Office Connectors

Ordering Information: Stubbed Connectors — 22 AWG

Catalog Number	Part Number	Description
Quick-Clip Equipment Field		
R399CBA20	F249506	Connector, quick-clip equipment field, 20-ft. swivel stub
R399CBA30	F249521	Connector, quick-clip equipment field, 30-ft. swivel stub
R399CBA50	F249458	Connector, quick-clip equipment field, 50-ft. swivel stub
R399CBA60	F249573	Connector, quick-clip equipment field, 60-ft. swivel stub
R399CBA80	F249522	Connector, quick-clip equipment field, 80-ft. swivel stub
Wire-Wrap Equipment Field		
R399BA25	F249015	Connector, wire-wrap equipment field, 25-ft. swivel stub
R399BA50	F249014	Connector, wire-wrap equipment field, 50-ft. swivel stub
R399BA75	F249077	Connector, wire-wrap equipment field, 75-ft. swivel stub
R399BA100	F249116	Connector, wire-wrap equipment field, 100-ft. swivel stub
Connectorized Equipment Field		
RG399BA50	F247001	Connector, connectorized equipment field, 50-ft. swivel stub
Angle Mount, Wire-Wrap Equipment Field		
AR399BA40	F249665	Connector, wire-wrap equipment field, 40-ft. swivel stub
AR399BA50	F249564	Connector, wire-wrap equipment field, 50-ft. swivel stub
AR399BA75	F249565	Connector, wire-wrap equipment field, 75-ft. swivel stub
AR399BA100	F249566	Connector, wire-wrap equipment field, 100-ft. swivel stub
Isolated Ground, Wire-Wrap Equipment Field		
SR399BA25	F249300	Connector, wire-wrap equipment field, 25-ft. swivel stub
SR399BA50	F249335	Connector, wire-wrap equipment field, 50-ft. swivel stub
SR399BA75	F249346	Connector, wire-wrap equipment field, 75-ft. swivel stub
SR399BA100	F249419	Connector, wire-wrap equipment field, 100-ft. swivel stub

R399 & AR399 Central Office Connectors



RQC99
with removal tool



P46321

Accessories

Catalog Number	Part Number	Description
R399LPKIT	F568051	Isolated ground kit
P48271	F548271	100-pr. wall mounting bracket
P43523	F543523	Alignment clip, wire-wrap version
P43674	F543674	Alignment clip, quick-clip version
P46321	F546321	Cable pair ID label
RQC99	F249599	Quick-clip wire insertion/removal tool
RQC99BT	F1002123	Universal punch down tool without removal tool
3991138	F014061	Front tap shoe pair tester for 100-pr.
3991160	F014058	Cable pair shorting plug
3991161	F014059	Single pair test cord with alligator clips
3991162	F014088	Test field insulator button
3997137	F014060	Patch test cord

NOTE: See the Protection section for protector modules, the Accessories section for test equipment accessories, and the CO & Remote Frames Systems section for mounting bars.

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Key Features

- Ideal for use in low pair-count circuitry
- Available in several wiring types
- Accepts industry standard 5-pin protector modules

Description

The R713 features 10-pair protection, and is ideal for use in low pair-count circuitry. The unit is available in several wiring types, and fits various mounting configurations. It is suitable for use in many areas where standard protection is not practical. The R713 accepts industry standard 5-pin protector modules and can be ordered equipped with various modules.

Block dimensions (without modules):

1.15-in. H x 6.625-in. W (6.0-in. mounting hole centers)

Block depth (with modules from mounting surface):

1.7-in. max, with modules without heat-coils

2.1-in. max with modules with heat-coils



R7132

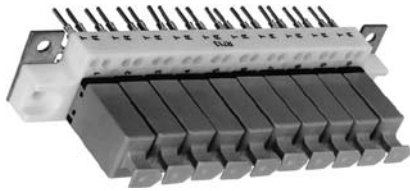
R713 10-Pair Protection



R7131

Ordering Information R7131 Series

Catalog Number	Part Number	Description
R7131	F014650	A simple, economical connector without a test field; provides protection where testing is normally accomplished from the opposite terminating point; tin plated module sockets



R7132

Ordering Information R7132 Series

Catalog Number	Part Number	Description
R7132	F014651	Outside plant terminations appear on gold-plated test field for convenient testing



R7133

Ordering Information R7133 Series

Catalog Number	Part Number	Description
R7133	F014652	The switchboard side of the protection system appears on the front-facing wire-wrap pins for easy cross-connecting



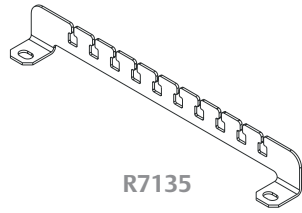
R7134

Ordering Information R7134 Series

Catalog Number	Part Number	Description
R7134	F014653	Outside plant pairs appear on wire-wrap pins on face of the connector for convenient testing

NOTE: See the Protection section for protector modules, the Accessories section for test equipment accessories, and the CO & Remote Frames Systems section for mounting bars.

R713 10-Pair Protection



R7135



R7136

Accessories

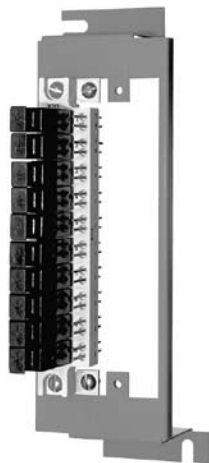
Catalog Number	Part Number	Description
R7135	F014675	Fanning Strip
R7136	F014676	Vertical 19-in. bracket mounts ten R713 blocks vertically on a 19-in. rack



1176

Accessories

Catalog Number	Part Number	Description
1176	F014680	Horizontal 19-in. bracket; mounts two R713 blocks end-to-end on a 19-in. rack

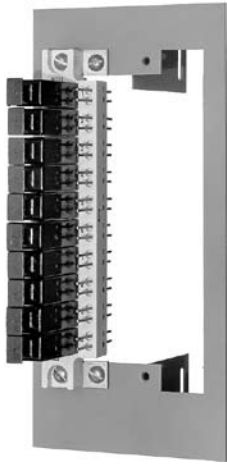


1178

Accessories

Catalog Number	Part Number	Description
1178	F014682	PBX grid bracket

R713 10-Pair Protection



1179

Accessories

Catalog Number	Part Number	Description
1179	F014683	Distributing frame bracket



1181

Accessories

Catalog Number	Part Number	Description
1181	F014684	Wall-mount bracket



1182

Accessories

Catalog Number	Part Number	Description
1182	F014685	Horizontal 23-in. bracket; mounts three R713 blocks end-to-end on a 23-in. rack

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Key Features

- Carbon units have low resistance metallic paths for grounding the circuit providing proven safety performance
- Extended service life reduces maintenance costs
- Replacements for all telcom applications simplify inventory requirements
- UL Listed, RDUP accepted, and CSA Certified to assure quality performance

Description

Emerson Network Power manufactures a wide range of arresters and fuses designed to protect the telecommunication network from high voltage and current transients. The carbon arresters and fuses include: the 1300 series of screw-in arresters and 77L station fuses.

Application

The 1300 series carbon arresters are used in fuseless and fused station protectors. The ceramic replacement fuses are used according to NEC Article 800-C (rural applications).



1304 Series



77L7

Carbon Arresters & Fuses

Ordering Information

Catalog Number	Part Number	Description	DC Impulse Breakdown	Nom. Air Gap	Color Code	Thread Size
Carbon Screw-in Arresters						
1304S	F800661	Station protector, RDUP, UL, CSA	200-1200V	.003-in.	White	1/2-in.-20

Ordering Information

Catalog Number	Part Number	Shoulder Length	Tip Diameter	Amps	Hex Nut Size	Listing
Ceramic Body Replacement Fuses						
77L7	F111650	4-3/4-in. (120.65mm)	.203-in. (5.15mm)	7	N/A	UL, CSA

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Key Features

- Extended service life reduces maintenance costs and subscriber complaints
- Patented vent-safe and fail-safe to provide continued surge protection under adverse conditions
- Low noise eliminates noise associated with carbon protectors
- JZ versions 1305VSB and R108VSB are environmentally robust to provide extended life and protect against moisture induced corrosion per Telcordia Technical Audit Report #AU-148, Iss. 1, September 1994
- Designed to meet Telcordia standards to assure quality performance
- UL Listed, RDUP accepted, and CSA Certified to assure quality performance

Description

Solid-state and screw-in gas-tube arresters provide reliable protection against high voltage and current transients on the communication network. Gas-tubes are more economical than carbon as they have a longer life expectancy and provide superior protection parameters. Solid-state arresters provide the same superior protection and an even longer life expectancy.

The VSR and VSB series of arresters and station protectors provide low-cost high-reliability protection. They are UL Listed and meet the strict requirements of RDUP and GTE® (VSR-types), as well as those of Telcordia (VSB-types). Featuring our patented vent-safe and fail-safe mechanisms, these arresters insure the unit will automatically short to ground in the event of sustained or high current conditions. The 1305VSB incorporates Emerson's JZ Series arrester, which provides superior robust environmental performance.

Application

Solid-state and screw-in gas-tube arresters provide excellent transient protection for all telecommunication systems. Units are available to meet specific configurations and voltage requirements at the customer premises and secondary locations, as well as at the central office. These products perform equivalent to or exceed competitor units such as the 11A2W.



Fig. 1
1304 Series & 1305VSB JZ Series



Fig. 2
R107 Series & R108VSB JZ Series



Fig. 3
504VSR2

Solid-State & Gas-Tube Arresters

Ordering Information

Catalog Number	Part Number	Fig.	Description/Application	DC Voltage	Color Code	Thread Size
1304F	F000656	1	Solid-state fail safe station protector, UL, CSA	240V	White	1/2-20"
1304T	F000654	1	Solid-state fail safe station protector, UL, CSA	300V	White	1/2-20"
R107T	F000655	2	Solid-state fail safe station protector, UL, CSA	300V	White	7/16-20"
1304VSR2	F000671	1	Gas, fail-safe station arrester, RDUP, UL, CSA	350-400V	Orange	1/2-20"
R107VSR2	F000663	2	Gas, fail-safe station arrester	350-400V	Orange	7/16-20"
504VSR2	F002917	3	Gas, fail-safe station arrester, UL	350-400V	Orange	9/16-10"
1305VSB	F000673	1	Gas, fail-safe station arrester, UL, CSA, Telcordia, JZ series	350-380V	White	1/2-20"
R108VSB	F000667	2	Gas, fail-safe station arrester, UL, CSA, Telcordia, JZ series	350-380V	White	7/16-20"
R107VSB	F000669	2	Gas, fail-safe station arrester, Bell, UL	400V	White	7/16-20"
1304V90	F000676	2	Gas, fail-safe station arrester, Bell, UL	90V	Green	1/2-20"
R107DA	F012109	1	Dummy arrester	NA	White	7/16-20"

NOTE 1: See the Reference Standards Chart at the end of this section.

NOTE 2: UL Listed, U.S. Patent No: 4104693, 4208694, 4241374

NOTE 3: Designed to meet Telcordia TR-TSY-000070, GR-1361-CORE, GR-974-CORE, and RDUP PE-80, PEG-1.

NOTE 4: All RDUP modules meet the criteria in Government Publication RDUP TE&CM 823.

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Key Features

- Solid-state voltage limiter provides nanosecond response time to transients
- Sneak current limiter ground line protects equipment against low level current flow
- Tin or gold-plated signal pins offer low contact resistance to minimize noise
- Test points to line side (optional) aid in trouble-shooting network if connector is not equipped with test field
- Designed to meet Telcordia standards to assure quality performance
- UL Listed and RDUP accepted to assure quality performance

Description

Solid-state protector modules protect personnel and equipment from damage caused by excessive voltages and currents induced on telephone lines or local ground by lightning and AC power system faults.

The solid-state protector modules incorporate a fast semiconductor switch with operating voltage nearly independent of transient rise time.

The modules' fast, repeatable operation provides improved equipment protection and longer protection life than protectors that use carbon or gas-tube protected elements at 100A current level. The modules are available in 240 or 300 volt ratings.

A fail-safe mechanism in the module operates under high current power cross conditions to permanently short the line to ground. Heat coils are available to provide sneak current protection.

With an industry standard 5-pin base, the modules are interchangeable with existing 5-pin modules. The pins are available with tin or gold plating to minimize corrosion.

The modules have a detent position that disconnects the equipment side but leaves the module connected to the line side. Test points to the line side are optional.

Application

The solid-state protector modules provide primary overvoltage and overcurrent protection for central office, remote cabinets, and building entrance applications. They are designed for new installations or as an upgrade for existing systems.



S3AB

Solid-State Protector Modules

Specifications

4 Ohm Heat Coil

Will carry 350 milliamperes for a minimum of 3 hours
 Will short to ground within 210 seconds at 540 milliamperes
 Will short to ground within 10 seconds at 1 amp
 Resistance 3.6 to 4.0 Ohms

For PBX Battery

Will carry 1.2 amps for a minimum of 3 hours
 Will short to ground within 210 seconds at 1.875 amps
 Resistance 0.3 Ohms maximum

20 Ohm Heat Coil

Will carry 150 milliamperes for a min. of 3 hours
 Will short to ground within 210 seconds at 250 milliamperes
 Resistance 21 Ohms maximum

Electrical Specifications

	240V	300V
DC Breakdown Voltage (1mA)	Minimum 200V	Minimum 265V
AC Breakdown Voltage (60Hz)	Maximum 265V	Maximum 400V
Impulse Breakdown Voltage	Less than 350V @ 100V/ μ s	Less than 400V @ 100V/ μ s Less than 350V @ 1KV/ μ s Less than 400V @ 1KV/ μ s
Insulation Resistance (Minimum 100M ohms)	@50Vdc	
Insulation Resistance (Minimum 100M ohms)	@200Vdc	
DC Holdover	<30ms maximum with 25A (10/1000 μ s) surge @ 260 milliamperes and \pm 52Vdc @ 200 milliamperes and \pm 135Vdc @ 140 milliamperes and \pm 150Vdc	
Service Life	10A for 1s; 10 surges, 60Hz, 480V \pm 10A (10 x 1000 μ s), unlimited >3000 surges \pm 100A (10 x 1000 μ s), unlimited >3000 surges \pm 10,000A (8 x 20 μ s), fail-safe	
Capacitance	Line to ground - less than 100 picofarads @ 50Vdc, 1Vac, 1KHz Line to ground - less than 200 picofarads @ 0Vdc, 1Vac, 1KHz to 1MHz Tip to ring - imbalance less than 15 picofarads	
Response Time	Less than 20 nanoseconds	
Power Cross Operation 60Hzrms	Fail-safe 5A for 15 minutes Fail-safe 10A for 15 minutes Fail-safe 30A for 15 minutes Fail-safe 60A for 3 seconds Fail-safe 120A for 0.6 seconds Fail-safe 350A for 0.04 seconds	
Operating Temperature	-40°C to +65°C	

NOTE: All specifications are at 20°C \pm 5°.

Solid-State Protector Modules

Ordering Information

Catalog Number	Part Number	Color	Pin Plating	Test Points	Heat Coil	Service
240 Volt Modules without Heat Coil						
S3ABF	F013613	Black	Tin	No	None	Standard
R3B1FS	F013404	Black	Gold	No	None	Standard
R3C1FS	F013628	Black	Gold	Yes	None	Standard
R3B2FS	F013405	Green	Gold	No	None	Service denial
R3C2FS	F013580	Green	Gold	Yes	None	Service denial
S3ARF	F013614	Red	Tin	No	None	Special
R3B3FS	F013406	Red	Gold	No	None	Special
R3C3FS	F013570	Red	Gold	Yes	None	Special
R3B4FS	F013407	Yellow	Gold	No	None	PBX battery
R3C4FS	F013571	Yellow	Gold	Yes	None	PBX battery
240 Volt Modules with 4 Ohm Heat Coil						
S4ABF	F013616	Black	Tin	No	4 ohm	Standard
R4B1FS	F013593	Black	Gold	No	4 ohm	Standard
R4C1FS	F013598	Black	Gold	Yes	4 ohm	Standard
R4B2FS	F013594	Green	Gold	No	4 ohm	Service denial
R4C2FS	F013599	Green	Gold	Yes	4 ohm	Service denial
S4ARF	F013617	Red	Tin	No	4 ohm	Special
R4B3FS	F013595	Red	Gold	No	4 ohm	Special
R4C3FS	F013600	Red	Gold	Yes	4 ohm	Special
R4B4FS	F013597	Yellow	Gold	No	4 ohm	PBX battery
R4C4FS	F013601	Yellow	Gold	Yes	4 ohm	PBX battery
R4B9FS	F013596	White	Gold	No	4 ohm	Reverse tip/ring
R4C9FS	F013602	White	Gold	Yes	4 ohm	Reverse tip/ring
240 Volt Modules with 20 Ohm Heat Coil						
ST4ABF	F013629	Black	Tin	No	20 ohm	Standard
RT4B1FS	F013378	Black	Gold	No	20 ohm	Standard
RT4C1FS	F013370	Black	Gold	Yes	20 ohm	Standard
RT4B2FS	F013384	Green	Gold	No	20 ohm	Service denial
RT4C2FS	F013376	Green	Gold	Yes	20 ohm	Service denial
RT4B3FS	F013380	Red	Gold	No	20 ohm	Special
RT4C3FS	F013372	Red	Gold	Yes	20 ohm	Special
RT4B9FS	F013382	White	Gold	No	20 ohm	Reverse tip/ring
RT4C9FS	F013374	White	Gold	Yes	20 ohm	Reverse tip/ring

NOTE 1: See the Reference Standards Chart at the end of this section.

NOTE 2: All modules are UL Listed.

NOTE 3: R ___S modules are designed to meet Telcordia specification GR-974-CORE.

NOTE 4: All RDUP modules meet the criteria in Government Publication RDUP TE&CM 823.



Solid-State Protector Modules

Ordering Information

Catalog Number	Part Number	Housing Size	Color	Pin Plating	Test Points	Heat Coil	Service
300 Volt Modules without Heat Coil							
S3AB*	F013609	Small	Black	Tin	No	None	Standard
R3B1S	F013618	Small	Black	Gold	No	None	Standard
R3C1S	F013522	Large	Black	Gold	Yes	None	Standard
R3B2S	F013619	Small	Green	Gold	No	None	Service denial
R3C2S	F013523	Large	Green	Gold	Yes	None	Service denial
S3AR	F013612	Small	Red	Tin	No	None	Special
R3B3S	F013620	Small	Red	Gold	No	None	Special
R3C3S	F013526	Large	Red	Gold	Yes	None	Special
R3B4S	F013621	Small	Yellow	Gold	No	None	PBX battery
R3C4S	F013527	Large	Yellow	Gold	Yes	None	PBX battery
300 Volt Modules with 4 Ohm Heat Coil							
S4AB	F013603	Large	Black	Tin	No	4 ohm	Standard
R4B1S	F013627	Large	Black	Gold	No	4 ohm	Standard
R4C1S	F013543	Large	Black	Gold	Yes	4 ohm	Standard
S4AR	F013608	Large	Red	Tin	No	4 ohm	Special
R4B3S	F013408	Large	Red	Gold	No	4 ohm	Special
R4C3S	F013545	Large	Red	Gold	Yes	4 ohm	Special
R4B4S	F013574	Large	Yellow	Gold	No	4 ohm	PBX battery
R4C4S	F013553	Large	Yellow	Gold	Yes	4 ohm	PBX battery
R4B9S	F013579	Large	White	Gold	No	4 ohm	Reverse tip/ring
R4C9S	F013554	Large	White	Gold	Yes	4 ohm	Reverse tip/ring
300 Volt Modules with Heat Coil No Resistance							
R4B2S	F013573	Large	Green	Gold	No	4 ohm	Service denial
R4C2S	F013544	Large	Green	Gold	Yes	4 ohm	Service denial

*S3AB modules are RDUP accepted in an R399 connector and available for use in connector equivalents.

NOTE 1: See the Reference Standards Chart at the end of this section.

NOTE 2: All modules are UL Listed.

NOTE 3: R__S modules are designed to meet Telcordia specification GR-974-CORE.

NOTE 4: All RDUP modules meet the criteria in Government Publication RDUP TE&CM 823.

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Gas-Tube Modules without Heat Coil

■ Outside Plant for Business-Critical Continuity

Key Features

- Extended service life reduces maintenance costs and subscriber complaints
- Industry standard 5-pin base provides a widely used proven module design
- Tin plated pins provide superior electrical contact to eliminate noise problems
- UL Listed, RDUP accepted, and CSA Certified to assure quality performance to assure quality performance

Description

Gas-tube protector modules protect personnel and equipment from excessive voltages and currents induced on telephone lines or a local ground by lightning and AC power system faults.

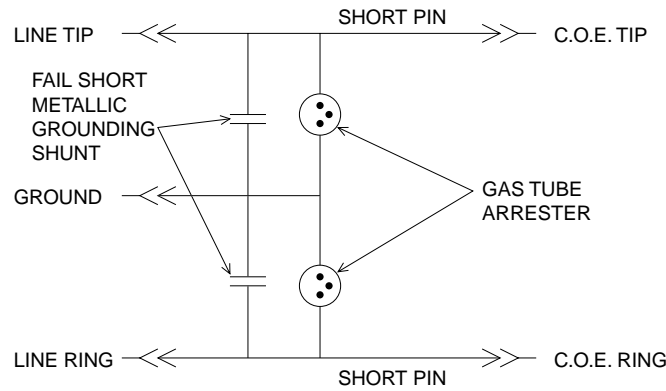
Industry standard 5-pin gas-tube modules are used for central office, remote cabinets, and building entrance applications. The modules contain two-electrode high amperage ceramic non radioactive gas-tube surge arresters and a fail-safe mechanism. These modules are used in areas where frequent transient over voltages are a problem or where tightly controlled breakdown values are required. The gas-tube will recover repeatedly from the overvoltage, providing 30 to 40 times longer life than carbon. A detent position disconnects the equipment side for testing or service denial, but leaves the line side protected.

Application

The gas-tube protection modules provide overvoltage and overcurrent protection for central office, remote cabinets, and building entrance applications.



Gas-Tube Modules without Heat Coil



Gas-Tube Circuit (Without Heat Coil)

Ordering Information

Catalog Number	Part Number	Specifications	Housing Color	Service	Pin Plating	Solid-State Upgrade
6A20	F013766	RDUP, GTE®	Orange	Independent, std.	Tin	S3AR
6A20B	F014015	GTE®	Black	Standard	Tin	
6A20R	F013655	GTE®	Red	Special service	Tin	S3AB
6U2VS	F013829	UL, RDUP, GTE®	Orange	Independent, std.	Tin	
6U2BVS	F014035	UL, GTE®	Black	Standard	Tin	
6U2RVS	F014036	UL, GTE®	Red	Special service	Tin	

NOTE 1: See the Reference Standards Chart at the end of this section.

NOTE 2: All RDUP modules meet the criteria in Government Publication RDUP TE&CM 823.

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3G Series 3-Element Gas-Tube Protection

■ Outside Plant for
Business-Critical Continuity

Key Features

- Extended service life reduces maintenance costs and subscriber complaints
- Balanced protection eliminates transverse voltages
- Vent-safe versions provide continued surge protection under adverse conditions
- Industry standard 5-pin base is a widely used proven module design
- Modules equipped with resettable PTCRs (current limiters) are available to protect against low level sneak currents
- UL Listed and RDUP accepted to assure quality performance

Description

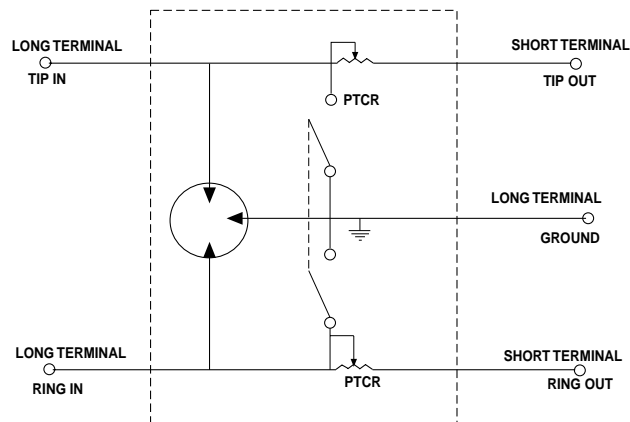
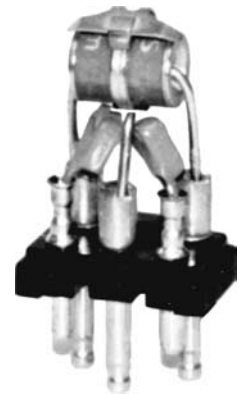
The 3G series 3-element gas-tube protector modules protect personnel and equipment from excessive voltages and currents induced on telephone lines or a local ground by lightning and AC power system faults.

The 3-element protector modules have an industry-standard 5-pin base, and contain a three-electrode non-radioactive gas-tube surge arrester and fail-safe device. The common chamber 3-electrode gas-tube provides balanced protection. An overvoltage on either side of the circuit causes the entire tube to ionize, and provides a simultaneous path to ground for both tip and ring. This eliminates or reduces transverse voltages that can damage sensitive equipment such as repeaters.

The 3-element protector modules are available with or without a positive temperature coefficient resistor (PTCR) current limiter, which protect against low level sneak current. PTCRs provide dependable low cost protection as the device automatically resets after operating.

Application

The 3G series 3-element gas-tube protector modules provide overvoltage and overcurrent protection for central office, remote cabinets, and building entrance applications.



3-Element Gas-Tube Circuit with PTCR

3G Series 3-Element Gas-Tube Protection

Specifications

RDUP Specifications		International Specifications		
DC breakdown voltage	L-G 300-500V /L-L 300-1000V	DC breakdown voltage	230 ± 20%	
Impulse breakdown @ 100V/μs	L-G 300-750V /L-L 1500V	Impulse breakdown @ 100V/μs	< 550V / < 700V	
Impulse breakdown @ 10KV/μs	L-G 300-1200V			
Insulation resistance (@ 100Vdc)	100MΩ min.	Insulation Resistance (@ 100Vdc)	100 MΩmin.	
Capacitance	30pf max.	Capacitance	<20pf (module only)	
DC holdover	150Vdc, 150μsec.	Current Limiting Operation @ 20°C	Polymer PTCR	Ceramic PTCR
Surge life (10x1000μs) 500A	100 surges	Non-operation	120mA	110mA
Max single surge (10 x 50μs)	5KA	Current Limiting @ 250mA	< 210 seconds	< 75 seconds
AC discharge current	20A rms	Current Limiting @ 300mA	< 100 seconds	N/A
		Current Limiting @ 540mA	< 10 seconds	< 8 seconds
		Current Limiting @ 21A	< 2 seconds	< 8 seconds

Ordering Information

Catalog Number	Part Number	Description	UL * 497	RDUP* PE-80	Int'l*
3G	F013750	350V, RDUP accepted, orange housing		√	
3GB	F013762	350V, black housing		√	
3GR	F013745	350V, red housing		√	
3GUVS	F013828	350V, UL Listed, RDUP accepted, orange housing	√	√	
3GUBVS	F013856	350V, UL Listed, black housing	√		
3GURVS	F013857	350V, UL Listed, red housing	√		
3GPTCR230	F013827				
3SPTCR300B	F1002160				

* Designed to meet these standards.

NOTE 1: See the Reference Standards Chart at the end of this section.

NOTE 2: All RDUP modules meet the criteria in Government Publication RDUP TE&CM 823.

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InSealator® Sealed IDC Terminal Blocks

■ Outside Plant for
Business-Critical Continuity

Key Features

- Exceeds Telcordia Specification TR-NWT-000975 providing documented performance
- UL Listed, CSA Certified, and RDUP accepted for documented performance
- Moisture resistant encapsulating sealant fully seals all terminations and protects against corrosion
- Insulation displacement (IDC) technology needs no stripping of service wire insulation, provides a gas tight connection, and speeds installation
- Tip (white)/ring (orange) color coding permits quick and easy tip and ring identification
- Encapsulated test point offers quiet front; permits pair isolation without wire removal; no special test clip needed
- Positive stop termination points simplify and ensure reliable terminations
- “Wiping” membrane prevents loss of any encapsulating sealant should service drop be removed
- Test clip retention will not inadvertently disengage during test procedures
- Easy visualization of activator open/closed position to ensure reliable drop wire terminations

Description

The InSealator® utilizes insulation displacement (IDC) technology to make contact with the individual conductors. This is accomplished by simply inserting the service wire into the appropriate port and tightening the terminal screw with a standard 216-type tool. The service wire is forced onto a split beam contact which precisely penetrates the insulation, thereby indenting the conductor and creating a gas tight contact. The InSealator® also encapsulates the service wire drops in a moisture resistant sealant for protection against corrosion. Through insulation displacement and encapsulation, the termination is environmentally sealed, exceeding the immersion requirement in Telcordia specification TR-NWT-000975.

The InSealator® sealed terminal block was designed to satisfy the evolving telco requirements to protect outside plant terminations from the harmful effects of corrosion and moisture migration.

Application

The InSealator® series can be used in new or rehab construction situations in pedestal, pole-mount, and aerial closure applications to provide a termination point for service wire drops.



InSealator®
Sealed Terminal Block

InSealator® Sealed IDC Terminal Blocks

Ordering Matrix

Cable Exits	RPI	=	Bottom
	RGI	=	Back or stubless
Clip Configuration *	S	=	Standard clip
	B	=	Bridging clip (stubless only)
Pair Count	2	=	2-pr. (unprotected stubless only)
	5	=	5-pr. (All RPI & RGI style "A" cable type only)
	6	=	6-pr.
	10	=	10-pr.
	12	=	12-pr. (unprotected only)
	25	=	25-pr.
	50	=	50-pr. (WP only) 2-25 pr blks
Protection Type	JZ	=	1305VSB, JZ, Bell/Indep, 350-380V
	P	=	1304S, carbon, 200-1200V
	T	=	1304T, solid-state, Bell, 300V
	VSR **	=	1304VSR2, gas, Indep, 350-400V
	Z	=	Without arresters (protected)
	blank	=	Unprotected
Cable Type	A	=	24 AWG Air core non-shielded
	E	=	24 AWG Air core shielded
	W	=	24 AWG Filled shielded
	C	=	24 AWG Conductor bundles (unjacketed air core)
	LS	=	Less stub (RGI only)
Cable Length	4	=	4 ft.
	12	=	12 ft.
	25	=	25 ft.
		blank	=
Stub Direction (back stub RGI units only with E or W cable)			
	U	=	Up
	D	=	Down
	blank	=	Stubless

*Clip configuration: S = A standard clip accommodates one 22 or 24AWG wire and one 18.5 or 20AWG wire.

B = A bridging clip that accommodates two 22 or 24AWG wires or any combination of the two.

**If configuration of a catalog number exceeds 15 characters, replace VSR with "R".

***Standard 1-tier: 2-, 5-, & 6-pr. are single right side wire feed. 10-, 12-, & 25-pr. are double side wire feed.

NOTE: Not all catalog numbers can be configured. Call Customer Service for details.

InSealator® Sealed IDC Terminal Blocks

Ordering Information

Catalog Number	Part Number	Description
2- pr.		
RGIB2LS	F001398	2-pr., unprotected, bridge clip, stubless
5- pr.		
RPIS5A4	F001387	5-pr., unprotected, 4-ft., air core non-shielded, bottom stub
RPIS5E4	F001470	5-pr., unprotected, 4-ft., air core shielded, bottom stub
RPIS5JZA4	F001388	5-pr., JZ protected, 4-ft., air core non-shielded, bottom stub
RPIS5VSRW4	F001510	5-pr., VSR protected, 4-ft., filled shielded, bottom stub
6- pr.		
RPIS6A4	F001385	6-pr., unprotected, 4-ft., air core non-shielded, bottom stub
RPIS6W4	F001439	6-pr., unprotected, 4-ft., filled shielded, bottom stub
RPIS6JZA4	F001406	6-pr., JZ protected, 4-ft., air core non-shielded, bottom stub
RPIS6VSRW12	F001541	6-pr., VSR protected, 12-ft., filled shielded, bottom stub
10- pr.		
RPIS10A4	F001392	10-pr., unprotected, 4-ft., air core non-shielded, bottom stub
RPIS10W12	F001389	10-pr., unprotected, 10-ft., filled shielded, bottom stub
RPIS10JZA4	F001414	10-pr., JZ protected, 4-ft., air core non-shielded, bottom stub
RPIS10VSRE4	F001481	10-pr., VSR protected, 4-ft., air core shielded, bottom stub
RPIS10JZW12	F001480	10-pr., JZ protected, 12-ft., filled shielded, bottom stub
12- pr.		
RPIS12A4	F001397	12-pr., unprotected, 4-ft., air core non-shielded, bottom stub
RPIS12E4	F001428	12-pr., unprotected, 4-ft., air core shielded, bottom stub
RPIS12W4	F001419	12-pr., unprotected, 4-ft., filled shielded, bottom stub
25- pr.		
RPIS25W4	F001436	25-pr., unprotected, 4-ft., filled shielded, bottom stub
RPIS25E4	F001450	25-pr., unprotected, 4-ft., air core shielded, bottom stub
RPIS25A4	F001386	25-pr., unprotected, 4-ft., air core non-shielded, bottom stub
RPIS25VSRE4	F001530	25-pr., VSR protected, 4-ft., air core shielded, bottom stub
RPIS25JZW4	F001438	25-pr., JZ protected, 4-ft., filled, bottom stub

InSealator® Sealed IDC Terminal Blocks

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BDFOKIT

Fiber Optic Conversion Kit

(Acceptable for use with RDUP products)

■ Outside Plant for
Business-Critical Continuity

Key Features

- Kit converts standard inventory
- Radius limiting fiber storage
- Holds up to six splice trays
- Accommodates for splice tray sizes up to 5.5" wide x 12.75" tall
- Store over 10' stack (144-fiber loose tube)
- Central strength member tie-down points
- Fits UPCBD4 or UPCBD5 pedestals

Description

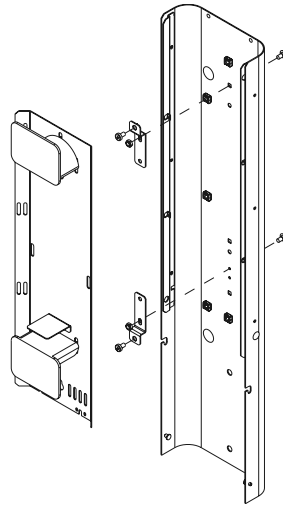
The BDFOKIT fits any standard UPCBD4 or UPCBD5 pedestal and configures it as a fiber distribution pedestal. The BDFOKIT provides the capability to mount up to six fiber splice trays and fiber slack.

The BDFOKIT easily attaches via knockouts on the rear of the UPCBD4 or UPCBD5 pedestal. The BDFOKIT minimizes the need to stock multiple pedestals as the same pedestal may be used for fiber or copper distribution. The BDFOKIT may also be used to retrofit existing pedestals in the field for fiber deployment.



BDFOKIT Fiber Optic Conversion Kit

(Acceptable for use with RDUP products)



UPCBD Bracket for Fiber Deployment

Ordering Information

Catalog Number	Part Number	Description
BDFOKIT	F1007373	Upgrade bracket for BD4 & 5 fiber deployment

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High-Visibility Marking Tape

(Acceptable for use with RDUP products)

Key Features

- High-visibility optical orange
- Easily installs on any size ProFORM®
- No special tools required
- One part number for all size pedestals
- Long term weather-ability

Description

ProFORM® High-Visibility Marking Tape is a wide strip of durable self-adhesive optical orange tape, 27-in. long by 1.5-in. wide.

Application

ProFORM® High-Visibility Marking Tape is intended for use on ProFORM® series pedestals located in remote areas, tall grass, or snow, where heightened visibility would be beneficial. One or two self-adhesive strips may be attached around the top circumference of the ProFORM® just beneath the handles. Strips are easily trimmed with a pair of snips.



High-Visibility Marking Tape
on ProFORM® Pedestal



Self-Adhesive Backing

ProFORM® High-Visibility Marking Tape

(Acceptable for use with RDUP products)

Ordering Information

Catalog Number	Part Number	Description
PROVISMARKER	F1005649	27" x 1.5" optical orange adhesive backed visibility marker

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U-Guards, Metallic Cable Guards

(Acceptable for use with RDUP products)

■ Outside Plant for
Business-Critical Continuity

Key Features

- Flanged edges do not require additional brackets for installation for greater ease of use and installation
- Available in a wide range of convenient sizes for application flexibility and ease of installation
- Direct mounting for extended protection
- Made of heavy gauge steel for durability and low maintenance costs
- Provided with either our proprietary gray-green paint or a hot-dipped galvanized finish for longer life

Description

U-Guards are strapless flanged U-shaped cable guards, manufactured of heavy gauge steel, with either a gray-green or hot-dipped galvanized finish and sold in packages of five.

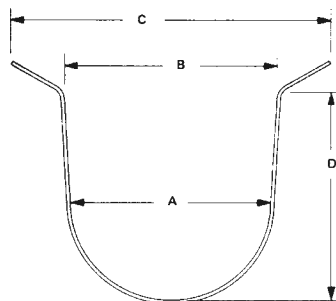
Application

U-Guards protect cable mounted along a wall or pole and splice points.



Specifications

Reference Number	A	B	C	D	Length
752	3/4-in.	7/8-in.	2 5/8-in.	3/4-in.	2-ft.
755	3/4-in.	7/8-in.	2 5/8-in.	3/4-in.	5-ft.
758	3/4-in.	7/8-in.	2 5/8-in.	3/4-in.	8-ft.
1255	1 1/4-in.	1 3/8-in.	3 1/16-in.	1 1/4-in.	5-ft.
1258	1 1/4-in.	1 3/8-in.	3 1/16-in.	1 1/4-in.	8-ft.
2255	2 1/4-in.	2 3/8-in.	4 1/32-in.	2 1/4-in.	5-ft.
2258	2 1/4-in.	2 3/8-in.	4 1/32-in.	2 1/4-in.	8-ft.
3255	3 1/4-in.	3 1/2-in.	5 13/32-in.	3 1/4-in.	5-ft.
3258	3 1/4-in.	3 1/2-in.	5 13/32-in.	4 1/4-in.	8-ft.
3755	3 3/4-in.	4 1/8-in.	5 13/16-in.	4 1/16-in.	5-ft.
3758	3 3/4-in.	4 1/8-in.	5 13/16-in.	4 1/16-in.	8-ft.
5003	5 1/4-in.	6-in.	7 3/8-in.	4 3/4-in.	3-ft.
5005	5 1/4-in.	6-in.	7 3/8-in.	4 3/4-in.	5-ft.



U-Guards, Metallic Cable Guards

(Acceptable for use with RDUP products)



UGC2, 3, 4



UGBG



Ordering Information

Catalog Number	Part Number	Description
UP752HD	F601640	3/4-in. ID x 2-ft., hot-dipped galvanized finish
UP755G	F601540	3/4-in. ID x 5-ft., green finish
UP758G	F601550	3/4-in. ID x 8-ft., green finish
UP1255G	F601560	1-1/4-in. ID x 5-ft., green finish
UP1258G	F601570	1-1/4-in. ID x 8-ft., green finish
UP1258HD	F601470	1-1/4-in. ID x 8-ft., hot-dipped galvanized finish
UP2255G	F601580	2-1/4-in. ID x 5-ft., green finish
UP2258G	F601590	2-1/4-in. ID x 8-ft., green finish
UP2258HD	F601490	2-1/4-in. ID x 8-ft., hot-dipped galvanized finish
UP3255G	F601600	3-1/4-in. ID x 5-ft., green finish
UP3255HD	F601500	3-1/4-in. ID x 5-ft., hot-dipped galvanized finish
UP3258G	F601610	3-1/4-in. ID x 8-ft., green finish
UP3755G	F601620	3-3/4-in. ID x 5-ft., green finish
UP3758G	F601630	3-3/4-in. ID x 8-ft., green finish
UP3758HD	F601530	3-3/4-in. ID x 8-ft., hot-dipped galvanized finish
UP5003G	F601690	5-in. ID x 3-ft., green finish
UP5003HD	F601730	5-in. ID x 3-ft., hot-dipped galvanized finish
UP5005G	F601700	5-in. ID x 5-ft., green finish

Accessories

Catalog Number	Part Number	Description
UGBG	F601710	Boot riser guard
UGC2	F601702	Fits in U-guards over 2-in.
UGC3	F601703	Fits in U-guards over 3-in.
UGC4	F601704	Fits in U-guards over 4-in.

NOTE: UGC caps cover the 4-in. buried conduits which exit the ground at wall or pole locations.

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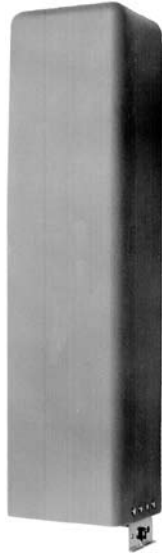
UPCBD Flood Covers

(Acceptable for use with RDUP products)

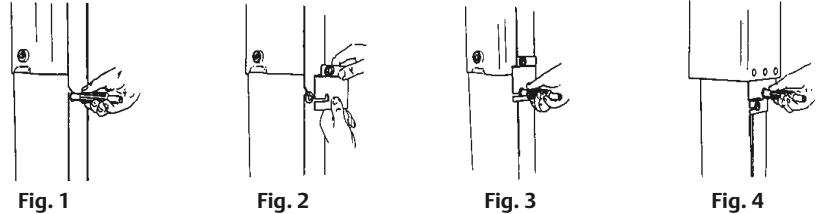
■ Outside Plant for Business-Critical Continuity

Description

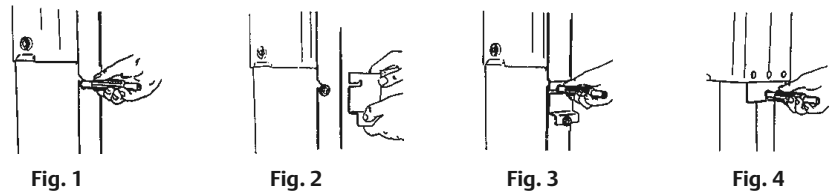
Emerson flood covers are manufactured from a durable UV stable, gray green, high-impact plastic that protects against flood damage to buried plant. The flood cover bolts over most existing pedestals using stainless steel hardware.



Flood Cover Installation



UPCBD2 & 3



UPCBD4 & 5

Application

The UPCBD flood cover may be used on all new or existing UPCBD2, UPCBD3, UPCBD4, and UPCBD5 pedestals. It may be used in coastal and high flood plain areas. Using a bell-jar effect, the flood cover restricts the water level rise inside the pedestal splice chamber.

NOTE: In sandy or unstable soil, it may be necessary to provide extra anchoring due to the buoyancy factor generated by all flood covers.

1. Using a 216-type tool, loosen the cover cupped washer bolt located on the right side of the pedestal (Fig. 1). The bolt is loosened only enough to slip the flood cover mounting bracket beneath it.
2. Slip the flood cover mounting bracket (Fig. 2) under the cupped washer bolt and move it forward.
3. Tighten the cupped washer bolt securely to hold the mounting bracket on the pedestal (Fig. 3).
4. Loosen the cupped washer bolt on the flood cover mounting bracket and slip the flood cover over the pedestal. Tighten the cupped washer bolt (Fig. 4).

Ordering Information & Dimensions

Catalog Number	Part Number	Description	H	W	D
FCBD2	F606807	Fits UPCBD2	5-1/2"	6"	31"
FCBD3	F606808	Fits UPCBD3	7-3/4"	7-3/4"	31"
FCBD4	F606809	Fits UPCBD4	8-1/2"	9-1/2"	31"
FCBD5	F606810	Fits UPCBD5	14-3/4"	13-3/4"	33"

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PT & MS Single-Mount Stakes

(Acceptable for use with RDUP products)

■ Outside Plant for Business-Critical Continuity



Ordering Information

Catalog Number	Part Number	Description	Usage
PT19G	F602350	48-in. stake with hardware, green, 10 per pkg, 3 lbs.	All closures
MS1324	F603272	24-in. stake with hardware, green, 10 per package	Pedestals and closures
MS1324TV	F603270	24-in. stake with hardware, green	Pedestals and closures
MS1332	F602132	32-in. stake with hardware, green, 10 per pkg, 3 lbs.	Pedestals and closures
MS1332TV	F602130	32-in. stake with hardware, green	Pedestals and closures
MS1332MG	F602150	32-in. stake with hardware, not painted, mill-galvanized material	Pedestals and closures
MS1342	F604080	42-in. stake with hardware, green, 10 per pkg, 4 lbs.	Pedestals and closures, RDUP accepted
MS1342PS	F602134	42-in. stake (P34885 stake mounting hardware), 10 per package	Pedestals and closures, RDUP accepted
MS1342TV	F604085	42-in. stake with hardware, green	Pedestals and closures
MS1342MG	F602160	42-in. stake with hardware, not painted, mill-galvanized steel	Pedestals and closures
MS1354	F604082	54-in. stake with hardware, green 5 per package	All closures
MS1372	F604084	72-in. stake with hardware, green 5 per package	All closures

NOTE: Stakes are mill-galvanized steel unless otherwise noted.

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Ordering Information

Catalog Number	Part Number	Description	Usage
DM & PS Single-Mount Stakes			
DM60GS*	F603660	60-in. stake with hardware, green, 5 per package	All closures
DM60HS*	F603690	60-in. stake with hardware, hot-dip galvanized, 5 per package	All closures
DM72GS*	F603670	72-in. stake with hardware, green, 5 per package	All closures
DM72HS*	F603700	72-in. stake with hardware, hot-dip galvanized, 5 per package	All closures
DM78GS*	F603680	78-in. stake with hardware, green, 5 per package	All closures
DM78HS*	F603710	78-in. stake with hardware, hot-dip galvanized, 5 per package	All closures
Plastic Stakes			
PS1342FP	F607198	42-in. FRP (Fiberglass Reinforced Plastic) stake, black, 3/8-in hardware, 1 per package	FloodPlug™
DM Dual-Mount Stakes			
DM60Gj**	F603720	60-in. stake with hardware, green 5 per package	All closures
DM60Hj**	F603750	60-in. stake with hardware, hot-dip galvanized, 5 per package	All closures
DM72Gj**	F603730	72-in. stake with hardware, green, 5 per package	All closures
DM72Hj**	F603760	72-in. stake with hardware, hot-dip galvanized, 5 per package	All closures
DM78Gj**	F603740	78-in. stake with hardware, green 5 per package	All closures
DM78Hj**	F603770	78-in. stake with hardware, hot-dip galvanized, 5 per package	All closures

* DM series stakes for use in single mounting situations when additional stability is needed.

** DM series stakes for joint mounting applications between telephone-power-TV.

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Aerial Splice Closure Accessories

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■ Outside Plant for Business-Critical Continuity



170 Y-Branch Kit



175, 176, 177, Maintenance Kit



180-B, 183, 184 Hanger Bracket Kit



P10318

Ordering Information

Catalog Number	Part Number	Description	Used On
170	F005152	Y-branch kit (nozzle, sealing tape, clamp, boot)	100MB
170K	F005153	Y-branch kit (nozzle, sealing tape, clamp, boot)	100MBK
171	F005154	Y-branch kit (nozzle, sealing tape, clamp, boot)	100MC
173	F005158	Y-branch kit (nozzle, sealing tape, clamp, boot)	200MB
173K	F005155	Y-branch kit (nozzle, sealing tape, clamp, boot)	200MBK
174	F005165	Y-branch kit, nozzle not included	430
175	F005167	Maintenance nozzle kit for cable sheath pull-out	100MB
176	F005168	Maintenance nozzle kit for cable sheath pull-out	200MB
177	F005169	Maintenance nozzle kit for cable sheath pull-out	430
180B	F005157	Hanger bracket kit used when 2 or more cables are suspended from same messenger	100MB
183	F005159	Hanger bracket kit	200MB
184	F005166	Hanger bracket kit	430
P10318	F510318	Messenger insulator	100MB
P10709	F510709	Messenger insulator	200MB
P10333	F510333	End plug for unused cable entrances	100MB, MBK, 500MB, 100MC & MCX
P10712	F510712	End plug	200MB
P10573	F510573	"D" sealing tape, 10-in. L x .75-in. W, 12 per pkg.	All

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Ground Bracket Rehab Kits (Acceptable for use with RDUP products)

■ Outside Plant for Business-Critical Continuity



RHBSERWR68



RHBSERWR4



RHBSERWR12

Ordering Information

Catalog Number	Part Number	Description	Usage
RHBSERWR4	F600115	Ground bracket rehab kit (C-service wire connector)	
RHBSERWR68	F600116	Ground bracket rehab kit (C-service wire connector)	CAD6 and CAD8 series closures
RHBSERWR12	F600117	Ground bracket rehab kit (C-service wire connector)	CAD12 series closures

NOTE: These brackets are used for field rehabbing when using series type bonding and grounding with a C-service connector.



KITSHLDIS68



KITSHLDIS12

Ordering Information

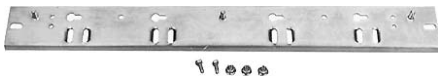
Catalog Number	Part Number	Description	Usage
KITSHLDIS68	F606356	Ground bracket rehab kit (Fargo connector)	CAD6 and CAD8 series closures
KITSHLDIS12	F606357	Ground bracket rehab kit (Fargo connector)	CAD12 series closures

NOTE: These brackets are used for field rehab when changing from existing series bonding/grounding to shield isolation style.



Ground Bracket Rehab Kits

(Acceptable for use with RDUP products)



GBR1200, P36790 & GBRBDS300



RHBSEWRWSI68



RHBSEWRWSI12

Ordering Information

Catalog Number	Part Number	Description	Usage
RHBSEWRWSI68	F600119	Ground bracket rehab kit (service wire connector)	CAD6 and CAD8 series closures
RHBSEWRWSI12	F600120	Ground bracket rehab kit (service wire connector)	CAD12 series closures
GBR1200	F604580	Ground bracket kit	1200 series closures
P36790	F536790	Ground bracket kit	UPCBD7
GBRBDS300	F604581	Ground bracket kit	UPCBDS300

NOTE: Above brackets are used for field rehab when changing from existing series bonding/grounding to shield isolation style.

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Ground Bracket Kits

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■ Outside Plant for Business-Critical Continuity



GBRBD2



GBRREA

Ordering Information

Catalog Number	Part Number	Description	Usage
GBR1200	F604580	Ground bracket kit	1200 series closures
GBRBD2	F605113	Ground bracket kit	UPCBD2
GBRREA*	F605112	Ground bracket kit	UPCBD3, 4, and 5 closures, RDUP* accepted

* Replaces GBRUPCBD. Install with existing mounting hardware. Additional mounting hardware, Catalog Number P39869, may be ordered separately.



GBREXT



GRDEXTKIT

Ordering Information

Catalog Number	Part Number	Description	Usage
GBREXT	F605114	Stud-mount extension bracket. Install below isolation bracket.	All pedestal closures that use standard shield isolation brackets except for UPCBD2
GRDEXTKIT	F605115	Channel-mount extension bracket. Install above insolation bracket.	All pedestal closures that use standard shield isolation brackets except for UPCBD2

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Grounding/Bonding Lugs

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■ Outside Plant for Business-Critical Continuity



CL212



ALP387



P45985



UP5006



TVSTDGLK



TV360GLK



P43197

Ordering Information

Catalog Number	Part Number	Description	Usage
CL212*	F600020	Bronze, electro-tin plate, screw-head bonding/grounding connector	All closures and UPCBD series closures for RDUP, UL 486A, and UL 467
ALP387*	F605130	Bronze, electro-tin plate, hex-head bonding/grounding connector	All closures and UPCBD series closures for RDUP, UL 486A, and UL 467
P45985*	F545985	Bronze electro-tin plate, hex-head/screw-head bonding/grounding connector	All closures, UL 486A and UL 467
UP5006**	F600021	Fargo ground connector	All closures
TVSTDGLK	F605884	Ground lug kit for classic style pedestals, 1 per package	TV40, TV60LP, TV80, TV104, TV106, and TV710
TV360GLK	F605883	Ground lug kit for TV360 style pedestal, 1 per package	TV360 series pedestals
P43197***	F543197	"C" Service (drop) wire cable shield bonding clamp	All closures, 50 per package

* Above lugs for use in system grounding using 6AWG solid ground wire.

** Above lug for use with shielded service wire.

*** For use on shielded or unshielded service wire.

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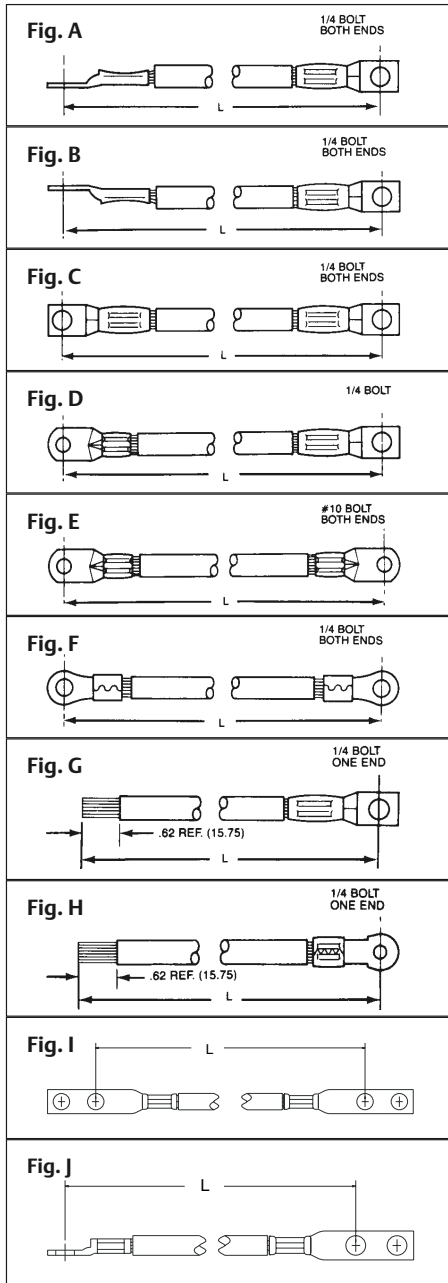
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Grounding/Bonding Straps

(Acceptable for use with RDUP products)

■ Outside Plant for Business-Critical Continuity



Description

A variety of indoor grounding strap sizes are available from Emerson. Figures I and J are used to provide a continuous ground between a connector mounting bar and the ground bar assembly on frames (one strap is required for each MDF vertical supporting protection equipment).

Catalog Number	Ground Strap Length	Figure
23561	17.5-in.	A
23562	19.5-in.	A
23567	24-in.	A
23568	30-in.	A
23563	10-in.	B
235614	24-in.	B
23569	10-in.	C
23565	16-in.	C
23564	26.5-in.	C
235617	39-in.	C
235648	48-in.	C
235654	54-in.	C
235660	60-in.	C
235678	78-in.	C
235612	24-in.	D
235610	7-in.	E
235611	10-in.	E
235615	4.5-in.	F
235616	7.5-in.	F
235619	9-in.	F

Catalog Number	Ground Strap Length	Figure
235651	51-in.	G
235690	90-in.	H
2356120	120-in.	H
P74099	6.625-in.	I
P62318	9.687-in.	I
P63566	12.69-in.	I
P5740 1	15-in.	I
P66346	17-in.	I
P56655	19.37-in.	I
P66347	21-in.	I
P56656	23.12-in.	I
P66735	26-in.	I
P70730	28-in.	I
P66348	13-in.	J
P66349	15-in.	J
P66350	17-in.	J
P64471	17.60-in.	J
P66351	19-in.	J
P66742	22-in.	J

Grounding/Bonding Straps

(Acceptable for use with RDUP products)

■ Outside Plant for Business-Critical Continuity



P41545



HP6



GL8



P51865



FBB931



FBB1448

Ordering Information

Catalog Number	Part Number	Description	Usage
P41545	F541545	6 AWG tin plated bond braid, round, flexible, 20-in. long with .205 diameter mounting holes for #10 screws	All closures
HP6*	F601870	6 AWG copper stranded ground wire, 13-in. long, one end fits 1/4 inch bolt and the other 3/8 inch bolt, 1 per package	All closures
GL8	F602440	6 AWG copper stranded ground wire for 1/4-inch bolts, 8-in. long with .265 diameter mounting holes, 1 per package	All closures
P51865	F551865	Solid 6 AWG copper ground wire, 20-in long with .203 diameter mounting holes for #10 screws, 20 per package	All closures
FBB931	F604930	Bond braid, 9 eyelets, 31-in. long	All closures, used in series/bonding grounding
FBB1448	F604940	Bond braid, 14 eyelets, 48-in.	All closures, used in series/bonding grounding

* Ground wire used when joint mounting with power.

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UPCBD & MC1048 Mounting Brackets

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SB234



SB5

Ordering Information

Catalog Number	Part Number	Description	Usage
SB234	F604110	Stand-off bracket for terminal blocks and load-coil mounting Term Blocks, 281, 283, 381, 383, 145 & RPT A-Line Series	UPCBD2, UPCBD3, and UPCBD4 series closures, RDUP accepted
SB5	F603910	Stand-off bracket for terminal blocks and load-coil mounting Term Blocks, 281, 283, 381, 383, 145 & RPT A-Line Series	UPCBD5 series closures, RDUP accepted

NOTE: For use in full length divider plates. The CAD4 and 6 series plates have a capacity for one bracket. The CAD8 has a capacity of two brackets and CAD12 has a capacity of three brackets.

UPCBD & MC1048 Mounting Brackets

(Acceptable for use with RDUP products)



OB2



OB34



OB5

Ordering Information

Catalog Number	Part Number	Description	Usage
OB2	F602730	Terminal block offset mounting bracket 281, 283, 381, 383, 145 and RPT A-Line Series	UPCBD2 series closures; RDUP accepted
OB34	F602710	Terminal block offset mounting bracket 281, 283, 381, 383, 145 and RPT A-Line Series	UPCBD3 and UPCBD4 series closures, RDUP accepted
OB5	F602750	Terminal block offset mounting bracket 281, 283, 381, 383, 145 and RPT A-Line Series	UPCBD5 series closures, RDUP accepted



SM10



WM10



P41532



OBTWM5 Wall-Mount Brackets

Ordering Information

Catalog Number	Part Number	Description	Usage
SM10*	F602640	Stud mounting bracket	MC1048 series closures
WM10**	F602630	Wall mounting bracket	MC1048 series closures
P41532	F541532	1" Standoff wall mounting bracket	MC1048 and OBT series closures
OBTWM5	F552162	5" Standoff wall mounting bracket	MC1048 and OBT series closures

* Fits over studs with holes and secured with nails or screws prior to outside wall finishing.

** Stand-off bracket for wall mounting after outside wall is finished.

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Mounting Plates

(Acceptable for use with RDUP products)

■ Outside Plant for Business-Critical Continuity



DPBD3H



DPBD4H



DPBD5H

Ordering Information

Catalog Number	Part Number	Description	Usage
DPBD3H	F605893	Divider/mounting plate	UPCBD3 series closures; RDUP accepted
DPBD4H	F605894	Divider/mounting plate	UPCBD4 series closures; RDUP accepted
DPBD5H	F605895	Divider/mounting plate	UPCBD5 series closures; RDUP accepted



Mounting Plate Kit

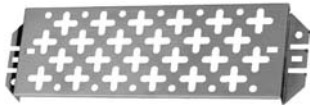
Ordering Information

Catalog Number	Part Number	Description	Usage
HIACT100	F605610	High activity mounting plate kit	UPCBDS100, UPC600X, UPC1000 series closures, RDUP accepted
HIACT200	F605620	High activity mounting plate kit	UPCBDS200, UPCBD7, and UPC1200 series closures, RDUP accepted
HIACT300	F605630	High activity mounting plate kit	UPCBDS300 series closures, RDUP accepted

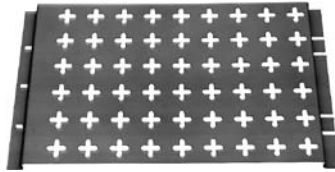
NOTE: Above plates used for mounting BT25 or RLS25 blocks (three per plate), load coils, and repeaters. The HIACT100 has two plates per kit, and the HIACT200 and HIACT300 have three plates per kit.

Mounting Plates

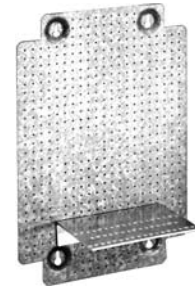
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SM Plate



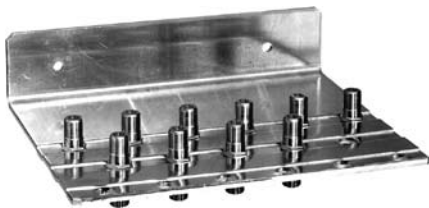
LM Plate



Mill-Galvanized Steel Grid Plate
P60622 & P60623

Ordering Information & Dimensions

Catalog Number	Part Number	Description	Usage	H	W
Mill-Galvanized Steel Grid Plates					
SM	F603240	Painted cross-slot mounting plate with hardware, 1 per package	TV80, TV104, and TV106	14-3/4"	5"
LM	F603220	Large painted cross-slot mounting plate with hardware, 1 per package	TV106		
P60622	F560622	Mill-galvanized steel grid mounting plate with mounting holes on 1/2-in. centers for ease of equipment installation and maintenance, 1 per package	TSafe and SuperSafeBDG closures	10-1/2"	15-3/4"
P60623	F560623	Mill-galvanized steel grid mounting plate with mounting holes on 1/2-in. centers for ease of equipment installation and maintenance, 1 per package	TSafe and SuperSafeBDG closures	16-1/2"	21-3/4"



TDPSF81

Ordering Information

Catalog Number	Part Number	Description	Usage
Aluminum Demarcation Plates			
TDPSF81	F604272	Aluminum demarcation plate with 17 holes to mount F-81 connectors, 10 F-81 connectors installed, 1 plate per package.	TSafe and SuperSafeBDG closures
TDPLF81	F604271	Aluminum demarcation plate with 34 holes to mount F-81 connectors, 20 F-81 connectors installed, 1 plate per package.	TSafe and SuperSafeBDG closures

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Stake & Pole-Mounting Hardware

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UPCBDHDW



PKGS



PKGJ



PKGPM

Ordering Information

Catalog Number	Part Number	Description	Usage
UPCBDHDW	F601410	Standard stake mounting hardware	MS1324, MS1332, MS1342, MS1354 stakes, RDUP accepted
PKGS*	F602620	Single mounting stake hardware	DM and PT series stakes
PKGJ**	F602610	Joint mounting stake hardware	DM stakes
PKGPM	F602780	Pole mounting hardware	All closures, RDUP accepted
PKGPM	F602780	Pole mounting hardware, 1 per pkg, .23 lbs.	All closures, RDUP accepted

* Included with DM joint mounting stakes.

** For use in back-to-back pedestal placement (included with DM joint mounting stakes).

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Pad-Mounting Brackets

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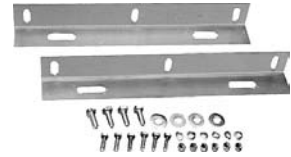
PADMT100



PADMT200300



BA4



BA12

Ordering Information

Catalog Number	Part Number	Description	Usage
PADMT100	F605640	Pad mounting bracket kit	UPCBDS100, UPC600X, UPC1000, and TV1600 series closures, RDUP accepted
PADMT200300	F605650	Pad mounting bracket kit for surface mounting on top of pad	UPCBDS200, UPCBDS300, UPCBD7, UPC1200 series, TV2400, TV2500, OPFOTV7, OPFOTV8, ECQF/ERLS series closures, RDUP accepted
BA4	F604750	Pad mounting bracket kit, 1 per pkg, 2 lbs.	CAD12 series closures
BA12	F602360	Pad mounting bracket kit, 1 per pkg, 6 lbs.	UPC1200 series, UPCBDS200, UPCBDS300, OPFOTV7, UPCBD7, ECQF/ERLS series closures

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Wire/Cable Ties

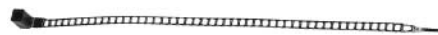
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■ Outside Plant for Business-Critical Continuity



HCT

Snaps into slot .203 x .250-in max 14 gr. mat'l



CT6



CT13



CT32

Ordering Information

Catalog Number	Part Number	Description	Usage
HCT	F601390	5-in. housekeeping tie	All closures
CT6	F600300	6-in. nylon wire tie	All closures; RDUP accepted
CT13	F600320	13-in. nylon cable tie	All closures; RDUP accepted
CT32	F535649	32-in. nylon cable tie	All closures

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Grommets

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SWG & SWGB



P37161



TG46



TG8

Ordering Information

Catalog Number	Part Number	Description	Usage
SWG*	F600270	Green 3/4-in. rubber service wire grommet, 50 per pkg, 1 lb.	All closures
SWGB*	F600269	Black 3/4-in. rubber service wire grommet, 50 per pkg, 1 lb.	All closures
P37161**	F537161	3/4-in. black cap plug, 50 per pkg, 1 lb.	All closures. For hole sizes .73 to .76 diameter
TG46	F602400	Aerial top-entry grommet, 1 per pkg, 1 lb. w/ cable strain relief	For all closures with 1-1/4-in. knockouts
TG8	F602390	Aerial top-entry grommet, 1 per pkg, 1 lb. w/ cable strain relief	For all closures having 2-in. knockouts

* Temporary service-wire grommet.

** Same use as SWG except no provision for service-wire entry.

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Miscellaneous

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NSH376



BPG



P20229X

Ordering Information

Catalog Number	Part Number	Description	Usage
NSH376	F600380	RDUP accepted field-installable cable tie mounting clips, 100 per pkg, 1 lb.	All closures
BPG*	F600260	7/16-in. nylon cap plug, 1 lb.	All closures
P20229X	F600271	3/4-in. wire grooming clip for .250 square hole	Mounting plates in many pedestals, WP, RNV, OBT, MC10, BET, BEF, LC cross-connect, ONUs and R366 & 2391 protected connectors and blocks

* For use when stake mounting knockout has been removed and not used.

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Spray Paint

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TU20 Spray Paint

Ordering Information

Catalog Number	Part Number	Description	Usage
TU16*	F600530	Dark-green spray paint	All closures
TU17*	F600540	Gray-green spray paint	All closures
TU19*	F600570	Orange spray paint	All closures
TU20*	F600571	Beige spray paint	All closures
TU27*	F600556	Off-white glossy spray paint	All closures
P90370	F590370	Small bottle off-white touch-up paint with brushh	All off-white closures (can ship air)

* Cannot ship via air.

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OSPDS-156900 / 0106

Locking Keys/Tool

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P39591
Inner-Tite Key (Green handle)



P60270
Diversified Star Lock Key



P29732
T-Handle Tamper-proof Wrench (Red handle)

Ordering Information

Catalog Number	Part Number	Description	Usage
Inner-Tite Key			
P39591	F539591	Inner-Tite Key	TV40, TV60, TV80, TV104, TV106, TV360 and SuperSafe series
Diversified Star Lock Key			
P60270	F560270	Diversified Star Lock Key (2252-801 series). Patterns other than 801 are available.	TV40, TV60, TV80, TV104, TV106, TV360 and SAFE series
T-Handle Tamper-proof Wrench			
P29732	F529732	T-Handle tamper-proof wrench, 5/16 hex-wrench with .15 diameter bolts in recess both ends, 1 per package	Red handle wrench used on tamper-proof cross-connect cabinets, MESA®, and CATV closures

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Tools

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Ordering Information

Catalog Number	Part Number	Description	Usage
Wrenches			
15	F003200	3-in. length (red) 216-Type can wrench, Hex ends are separate pieces molded in plastic.	Finger-type wrench has hex ends for 3/8-in. and 7/16-in. nuts and deep sockets for terminal posts.
38	F003205	5-in. length (yellow) 216-Type can wrench, Hex ends are separate pieces molded in plastic.	Finger-type wrench has hex ends for 3/8-in. and 7/16-in. nuts and deep sockets for terminal posts.
17	F008600	Ratchet wrench, is 3.75-in (95.3mm) long to limit the torque that can be applied to the bolts.	This tool is recommended for tightening the .437-in (11.1mm) stainless steel clamping bolts on the A- and B-type splice case and terminal closures.
Wrench Kit			
33	F008601	Socket wrench kit contains a 6-in. (152.4mm) reversible ratchet, a 3-in. (76.2mm) extension, and one 0.562-in. (14.27mm) socket for installing pipe plugs or air valves. Ratchet extension is used for tightening clamping bolts in the center of D-type cases.	The socket wrench kit is designed particularly for installing C- and D-size splice case and terminal closures. All parts are made of forged steel and are chrome plated. Set is supplied complete with plastic pouch.

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