

Rail Electrical Products



ERICO[®]

Incorporated in 1903 as the Electric Railway Improvement Company, ERICO® originally specialized in rail bonding for the railroad and mining industry. Today, ERICO is a leading designer, manufacturer and marketer of precision - engineered specialty metal products serving global niche product markets in a diverse range of electrical, construction, utility and rail applications. ERICO has ongoing engineering programs in research, development and quality control for all of its markets, which helps ensure continuous development and marketing of innovative product and service solutions.

CADDY® Fixings, Fasteners and Supports for Electrical Applications

Specialty clips, clamps, hangers and straps for electrical and information transport system installations.

CADDY® Fixings, Fasteners and Supports for Mechanical Applications

Hangers, fasteners and support products for plumbing, HVAC, fire protection and seismic systems.

ERIFLEX® Low Voltage Panel Components

Current carrying connectors, supports and other non-active electric panel components.

ERIFLEX® FLEXIBAR flexible insulated busbar.

ERITECH® Electrical Products

Products for grounding, bonding, surge protection and lightning protection that are designed to offer a coordinated system approach to facility electrical protection.

CADWELD® welded electrical connections

CRITEC® surge protection devices

ERITECH® grounding and bonding products, lightning protection systems

LENTON® Concrete Reinforcement Products

Rebar splicing systems and other reinforcing products utilized to connect steel reinforcement rods in concrete.

Rail and Industrial Products

Connecting and bonding products based on exothermic connection technology

CADWELD® welded connections

CRITEC® surge protection devices

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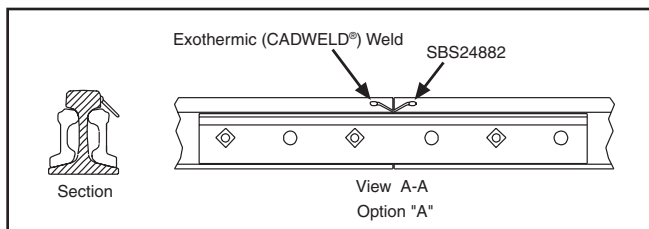
ALPHA-NUMERIC LISTING 45-49

PRODUCT LITERATURE 50

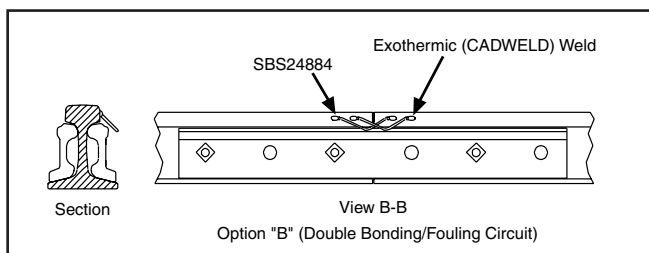
TYPICAL APPLICATIONS

SIGNAL BONDING

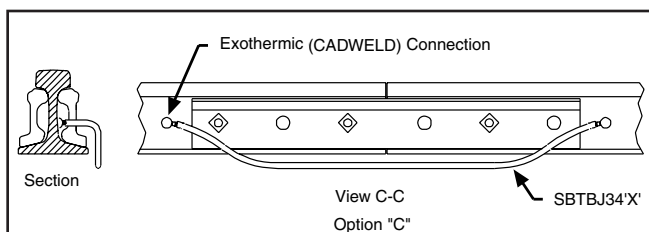
Joint Head Bond



Fouling Circuit



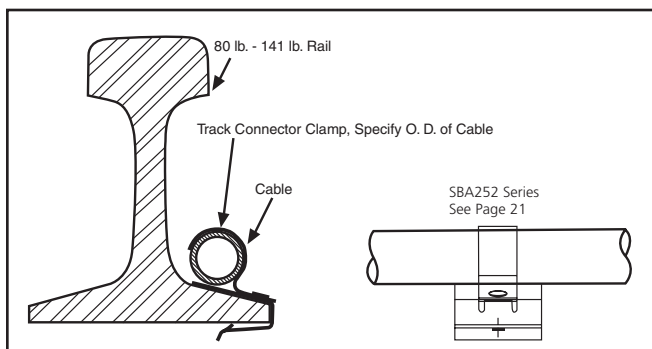
Web Bonding



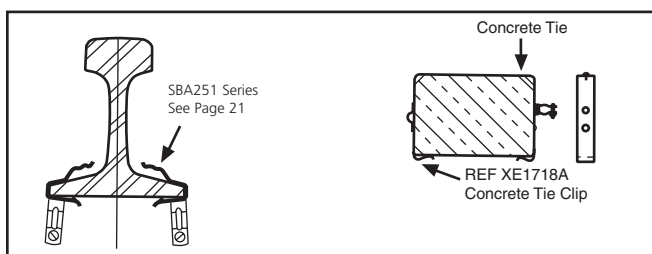
TYPICAL APPLICATIONS

TRACK CLIPS

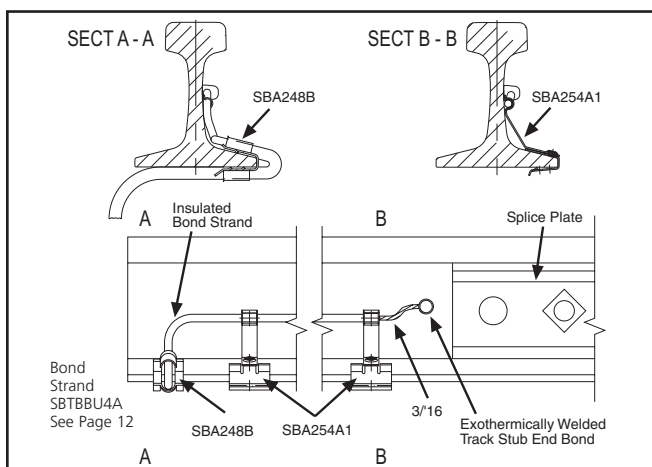
Track Retainer Clip



Rail Clip and Concrete Tie Clip (Contact ERICO®)



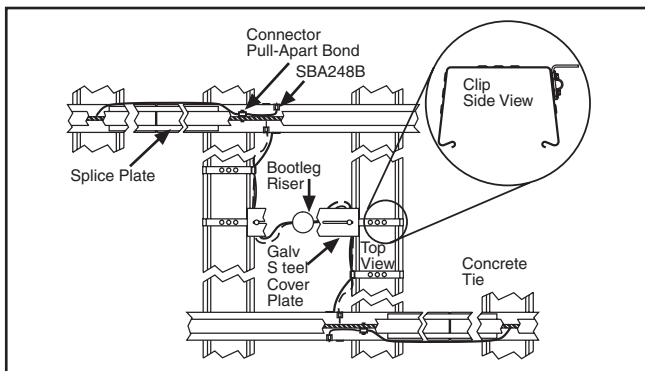
Clip, Bootleg, Track Connector



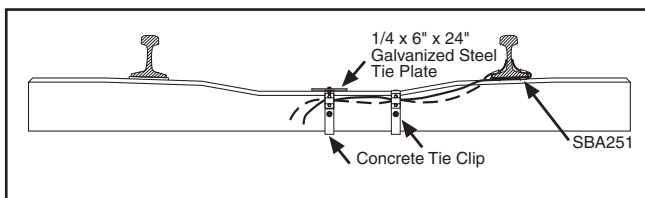
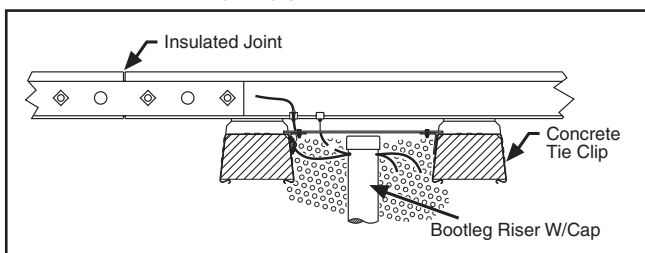
TYPICAL APPLICATIONS

CONCRETE TIE CLIPS

Concrete Tie Clip Bootleg Riser 4-Wire Kit



Concrete Tie Clip Applications

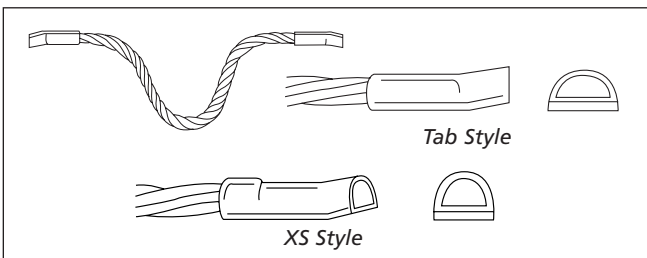


CADWELD® BONDING PRODUCTS

BONDS

Joint Head Bonds

Order in boxes of 100 - Includes one pair of replacement molds, flint ignitor and necessary welding material.



Bond	6-1/2"	7"	7-1/2"	9-3/4"	9-3/4"
3/16" Dia. XS Style	SBS24882		SBS24883	SBS24884	
XS Style Tinned Conductor	SBXSHU2		SBXSHU3	SBXSHU4	
Tab Style	SB20104		SB20136	SB20108	
Head Free Rail	SB20112		SB20128	SB20116	
5/16" Dia. Tab Style		SB20175			SB20118
Head Free Rail		SB20175HF			

Also available as bond only.

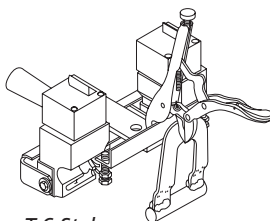
CADWELD® rail head joint bonds provide:

- Maximum broken rail protection
- Unchanging electrical resistance
- Maximum corrosion resistance
- Easy installation, minimum installer skill required
- Simple and highly portable installation equipment
- Versatility, equally usable on old, worn, or new rail
- Durability, not destroyed by rail end build up

CADWELD® BONDING PRODUCTS

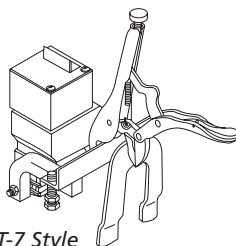
WELDERS AND MOLDS

Rail Head Welders And Molds



T-6 Style

	T-6 Style One-Piece Rail Welder Complete			
With Molds Bond	6-1/2"	7"	7-1/2"	9-3/4"
3/16" Dia. XS Style	SBXST6A		SBXST6C	SBXST6D
Tab Style	SBTBT6A		SBTBT6C	SBTBT6D
Head Free Style	SBHFT6A		SBHFT6C	SBHFT6D
5/16" Dia. Tab Style		SBTBT6B		SBTBT6E
Head Free		SBHFT6B		



T-7 Style

T-7 Style Bond Terminal	3/16" Dia. Bonds		5/16" Dia. Bonds	
	Welder Pair	Molds Only (Pair)	Welder Pair	Molds Only (Pair)
3/4" XS	SBXST7D	SBM456		
3/4" Tab	SBTBT7F	SB55838		
1" Tab	SBTBT7G	SB55839	SBTBT7B	SB5898
Head Free	SBHFT7E	SB5925	SBHFT7K	SB5492

T-7 Welders are a convenient means of attaching rail head bonds wherever the standard T-6 Welder will not fit properly such as transposed rail and compromised joints.

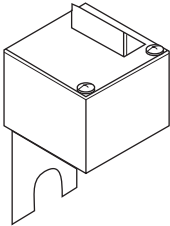
CADWELD® BONDING PRODUCTS

WELDERS AND MOLDS

Rail Head Welders And Molds Continued

Bond	Replacement Parts		
	Molds Only (Pair)	Molds With Mounting Parts And Clips	Bond Clips
3/16" Dia. XS Style Tab Style Head Free Style	SBM456 SBS5838 SBS925	SBM456F SBS5838F SBS925F	S2659 S2659 S2044
5/16" Dia. Tab Style Head Free	SBS898 SBB492	SBS898F SBB492F	S119 B194D

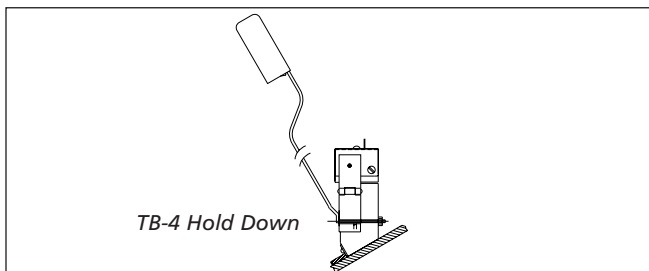
Replacement Mold Covers for T-6 and T-7 Welders

	
Part Number	Description
SBB2516A SBB2516APRWH	Single Replacement Cover Pair of Replacement Covers with Hardware

CADWELD® BONDING PRODUCTS

WELDERS AND MOLDS

Frog and Special Track Work

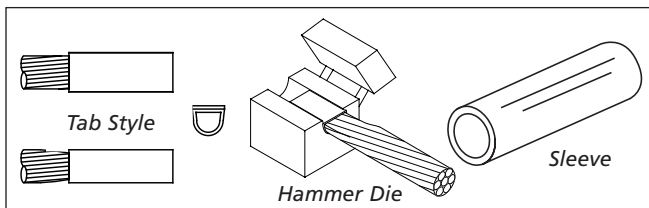


Terminal Style	TB-4 Welder		Replacement Mold
	Hold Down	Frame Only	
3/16" Dia.	SBXSTB4A	B323L	SBB343A
3/4" XS	SBTBTB4B	B323L	SBB343B
3/4" Tab	SBTBTB4C	B323L	SBB343C
1" Tab	SBTBTB4D	B323L	SBB343D
1-1/2" Tab			
5/16" Dia.	SBTBTB4E	B323L	SBB343E
1" Tab			

(Not to be used on base of load bearing rail)

FIELD MADE BONDS

Tab-Style Terminals



Cable Size	Terminal Length	Sleeves		Hammer Dies	Welding Material	
		Part Number	Std. Pkg.	Part Number	Part Number	Std. Pkg.
#6 Sol	1"	SBS10	100	NA	SB25	50
3/16"	3/4"	SBS11C	100	SBD50	SB25	50
	1"	SBS12C	100			
	1-1/2"	SBS13C	100			
5/16"	1"	SBS09C	100	SBD51	SB32	50

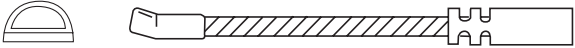
Cable - supplied by ERICO® in 3/16" and 5/16" copper alloy stranded signal cable (bare) and 3/16" signal cable with 4/64" and 6/64" PVC insulation. Available in 100' coils, 500' and 1000' reels. See page 17.

CADWELD® BONDING PRODUCTS

BONDS

Track Connectors - Web

Order in boxes of 100 - Includes one pair of replacement molds, flint ignitor and necessary welding material.

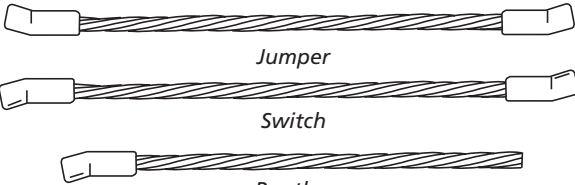
 <i>Tab Style</i>	
Part Number	Description
SBTBBU4A	3/16" Dia. x 1" Tab x 4" Long Bootleg
SBTBCU412	3/16" Dia. x 1" Tab x 12" Long Bootleg

For complete Welder (SBTBT21C) see page 13 and compression tool (SBT031DJ) see page 16.

The CADWELD® Track Connector from ERICO® is used when the advantages of a welded connection to the rail web are desired and standard compression connection to track wire is required. The connector provides flexibility and resistance to vibration fatigue by incorporating a length of bond strand between the CADWELD connection and the sleeved end. The SBTBBU4A and SBTBCU412 are 3/16" tinned copper alloy. (Other lengths available.)

Jumper, Switch and Bootleg Bonds

Substitute desired length of bond in even inches for 'X'. Replacement molds sold separately. All CADWELD bonds are furnished with the necessary welding material.

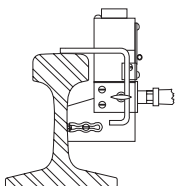
 <i>Jumper</i> <i>Switch</i> <i>Bootleg</i>			
Diameter	Jumper	Switch	Bootleg
3/16" Dia.			
3/4" XS Style	SBXSJ33 "X"	SBXSS33 "X"	SBXSB33 "X"
3/4" Tab	SBTBJ33 "X"	SBTBS33 "X"	SBTBB33 "X"
1" Tab	SBTBJ34 "X"	SBTBS34 "X"	SBTBB34 "X"
1-1/2" Tab	SBTBJ36 "X"	SBTBS36 "X"	SBTBB36 "X"
5/16" Dia.			
1" Tab	SBTBJ54 "X"	SBTBS54 "X"	SBTBB54 "X"

Also available as bond only.
STD Packs of 10 or 25

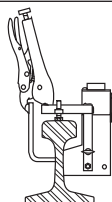
CADWELD® BONDING PRODUCTS

WELDERS AND MOLDS

Web (Field Made and Factory Made)



TB-5 Hand Held



T-21 Clamping

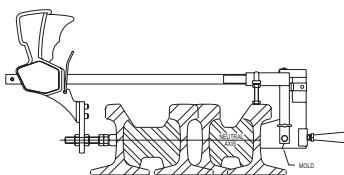
Terminal Style	TB-5 Welder		T-21 Welder		Replacement Mold
	Hand Held	Frame Only	Clamping	Frame Only	
3/16" Dia. 3/4" XS 3/4" Tab 1" Tab 1-1/2" Tab	SBXSTB5A SBTBTB5B SBTBTB5C SBTBTB5D	M22	SBXST21A SBTBT21B SBTBT21C SBTBT21D	C105B	SBB200A SBB200B SBB200C SBB200D
5/16" Dia. 1" Tab	SBTBTB5E	M22	SBTBT21E	C105B	SBB200E

TB-5 & T-21 Web Welders are for installation of track circuits and jumper bonds to the neutral axis.

TB-5 & T-21 Welders and Replacement Molds are supplied in pairs.

Welder Frames are sold as pairs.

Extension Clamps On Rail Head And Rail Web



SBC105R Special Track Work

Part No.	Description	Mold
SBC105S SBC105SA	Head Ext. Clamp Head Ext. Clamp w/ Mold Cover	See T-7 Style Molds See T-7 Style Molds
SBC105R	Web Ext. Clamp	See TB-5 / T-21 Style Molds

- Adjusts for wide span usage - e.g. frogs, switches, etc. (25-1/2" Max. Span)
- Easy to use and lightweight.
- Can be used with existing head and web molds.
- Can also be used on standard (single) rail.

MECHANICAL CONNECTORS

BONDS

Plug Bonds

Standard Package 50

Specify bond length as a suffix to part number (XX), i.e., SBPAJA24 is an S-1 cable type, 24" long.

			
Part Number	Cable Type AREMA® Drawing 8.1.25-#1	Description	Bare Dia. Inches
SBPAJA "XX"	S-1	1 Copper, 6 Galvanized Steel	0.3270
SBPAJB "XX"	S-5	3 Copper, 16 Galvanized Steel	0.3300
SBPAJC "XX"	7-#10	7-40% Copperweld®	0.3060
SBPAJD "XX"	7-#12	7-40% Copperweld	0.2430
SBPAJ3 "XX"	S-8	133 Cadmium Bronze	0.1875
SBPAJR "XX"	S-8 Insul	133 Cadmium Bronze w/ 4/64" PVC Insulation	0.1875
SBPAJG "XX"	S-12	42 Cadmium Bronze, 91 Hard Drawn Stain, Steel	0.2510
AREMA Drawing 8.1.25-#2			
SBPAJP "XX"	DS-1		
SBPAJN "XX"	14-#12		

XX= Lengths 24, 30, 34, 36, 42, 48, 60, 72, and 96.

ERICO® Plug Bonds are designed for application to the rail web. Plug bonds are hammered into a 3/8" diameter hole drilled through the rail web (driven from same side hole was drilled).

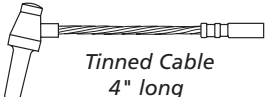
This recommended method of installation requires a bond 12 inches longer than the splice bar.

MECHANICAL CONNECTORS

BONDS

Track Connectors "Chicken Heads"

Standard Package 200

 <i>Tinned Cable 4" long</i>		
Part Number	Cable	Connector
SBPAC3A	3/16"	3/16" - #6 str
SBPAC3G		#8 str/#6sol
SBPAC3R		#9 str/#8sol
SBPAC3Y		#10 str/#9sol
SBPAW35		3/8" tapered plug
SBPACGBJ4	5/16"	3/16" - #6 str

The ERICO® Track Connector is used when bond strand is being utilized for track connections, fouling circuits, and even bonding around the splice bar. The plug terminal is hammered into a 3/8" diameter hole drilled through the rail web (driven from same side hole was drilled).

Compression Tool (SBT031DJ) sold separately. See page 16.



Multi-Purpose Bonds

Standard Package 48

	
Part Number	Cable Type
SBPMJ3 "X"	Bare - 3/16" S-8
SBPMJR "X"	Black Insul. - 3/16" S-8
SBPMJS "X"	Orange Insul. - 3/16" S-8

Substitute length for "X" (10", 12", or 14")

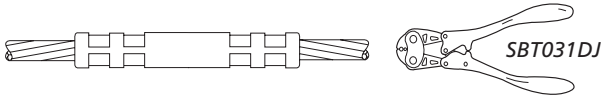
The ERICO Multi-Purpose Bond is used when a standard plug bond cannot be installed from the field side of rail due to tight areas such as frogs and switches.

MECHANICAL CONNECTORS

ASSOCIATED MATERIAL

Sleeves - Compression Type

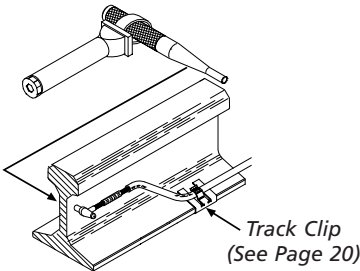
Standard Package 100

	
Part Number	3/16" Bond Strand To: Description
A2314J	#9 solid or #10 str
A2364J	#8 solid or #9 str
A2363J	#6 solid or #8 str
A2367J	#3/16" or #6 str
A2412J	1/4" Binding Post, Lug
SBT031DJ	Compression Tool

No-Oxide Grease

Part Number	Description
T369	1 ounce tube

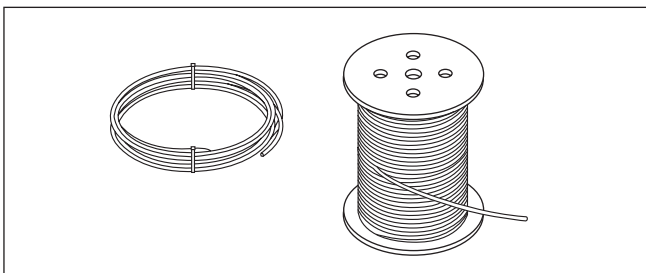
Bond Removal Punch

	
Part Number	Description
SBT382B	Punch Only
SBT408	Plastic Handle Only
SBT382BWH	Punch w/Handle
SBT382BWPH	Punch w/Plastic Handle

MECHANICAL CONNECTORS

RELATED MATERIALS

Bond Strand



Part Number			Description
100' Coil	500' Reel	1000' Reel	
SBS8CINSUL	SBS8LINSUL	SBS8INSUL	S-8, 3/16", Black 4/64 PVC
SBS8CINORG	SBS8LINSORG	SBS8INORG	S-8, 3/16", Orange 4/64 PVC
SBS8TCINS	SBS8TDINSUL	SBS8TINSUL	S-8, 3/16" Tinned, Black 4/64 PVC
SBS8TCINS664	SBS8TLINS664		S-8, 3/16" Tinned, Black 6/64 PVC
SBS8TCINSRD		SBS8TINSRD	S-8, 3/16" Tinned, Red 6/64 PVC
SBS8CBARE SBS17CBARE	SBS8LBARE	SBS8BARE	S-8, 3/16", Bare S-17, 5/16", Bare

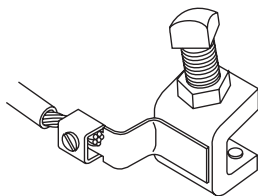
Miscellaneous Bonding Items

Part Number	Description	Std. Pkg.
B154A	3/8" Straight head plug terminal	25
B101AA	Lug - 1/16" x 1/2", 1-hole (1/4" stud)	25
SBK012A	1/4" split stud kit	10
SBK012B	1/4" split stud kit	100
SB25	Rail Welding Material	50
SB32	Rail Welding Material	50

MECHANICAL CONNECTORS

TEMPORARY CONNECTORS

Temporary Track Connector



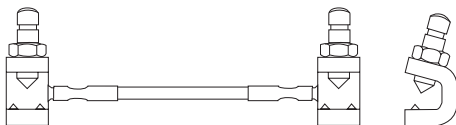
Part Number	Description
A140	Bolt Type
A140WT	T-Handle Type

Standard Package 4

Makes temporary signal bonds and track circuit connections using your cable.

- Accepts cable sizes #6 thru 1/0, including 3/16" and 5/16" diameter bond strand.
- Hardened contact points on clamps bite through rust and scale.

Temporary Signal Bond 3/16"



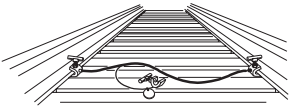
Part Number	Description
SBS3086S48	3/16" Orange Insul. 48" long
SBS3086S48WT	3/16" Orange Insul. w/T-handle 48" long
SBS3086R48	3/16" Black Insul. 48" long
SBS3086R48WT	3/16" Black Insul. w/T-handle 48" long

- Lightweight - made from 3/16" PVC insulated bond strand.
- PVC insulation available in black or orange.
- Hardened contact points on clamps bite through rust and scale.
- Cable welded to terminal for electrical reliability.

MECHANICAL CONNECTORS

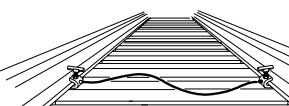
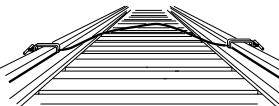
TRACK CIRCUIT SHUNTS

Dual Shunt

 <i>Dual Base Style</i>	 <i>Dual Head Style</i>
Part Number	Description
SBB2721S	Dual Shunt (0.06 ohm/hard) Base style 2 pt. clamp
SBB2721T	Dual Shunt (0.06 ohm/hard) Head style 2 pt. clamp
SBB2721G	Dual Shunt (0.06 ohm/hard) Head style 3 pt. clamp
SBB2721B	Dual Shunt (0.06 ohm/hard) Base style 3 pt. clamp

- One easy-to-carry assembly.
- No resistor to fail. Product is pre-engineered to provide permanent 0.06 ohm shunting.
- 100% tested and tagged to assure reliability.
- Hardened contact points on clamps bite through rust and scale.
- 0.06 ohm clamps painted red for easy identification.

Single Shunt

 <i>Single Base Style</i>	 <i>Single Head Style</i>
Part Number	Description
SBB2721F	0.06 ohm Shunt only, Base style, 3 pt. clamp
SBB2721H	0.06 ohm Shunt only, Head style, 2 pt. clamp
SBB2721CS72	Hard Shunt only, Base style, 3 pt. clamp
SBB2721JS72	Hard Shunt only, Head style, 3 pt. clamp
SBB2721VS72	Hard Shunt only, Base style, 2 pt. clamp

Two shunt assemblies are available - "hard" zero ohm or 0.06 ohm.

- 0.06 ohm style has no resistor to fail. Product is pre-engineered to provide permanent 0.06 ohm shunting.
- Hardened contact points on clamps bite through rust and scale.
- Bright orange insulation on "Hard" shunt for high visibility and easy identification.

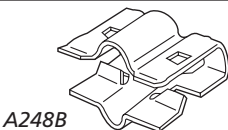
CABLE CLIPS

RETAINER CLIPS

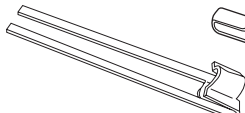
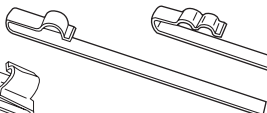
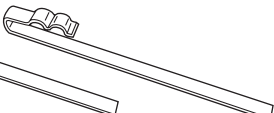
Design Features

- Spring steel and “snap-on” designs mean no more holes to drill.
- Flexibility - wide range of clips fit all standard rails and a variety of conductors.
- Versatility - ERICO® now enables you to secure cables — reducing maintenance and improving wayside safety.

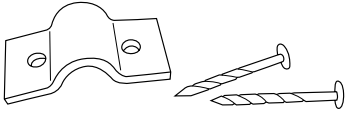
Electroplated Spring Steel

			
A248B		A251	
Part Number	Max Cable Diameter	Position on Rail Base	Standard Packaging
A248B	3/8"	Perpendicular	50
A251	3/8"	Double Parallel	50

Electroplated Steel

					
A154/A206		A203/A205		A219	
Part Number	Max Cable Diameter	Position on Rail Base	Standard Packaging		
A154	5/16"	Perpendicular	50		
A203	5/16"	Parallel	100		
A205	1/2"	Parallel	100		
SBA206	1/2"	Perpendicular	50		
A219	5/16"	Double Parallel	100		

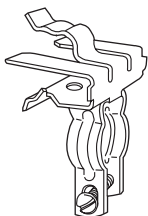
PVC Cable Keeper

	
Part Number	Description
T375	7/16" Diameter Cable Keeper – 2 Holes w/nails

CABLE CLIPS

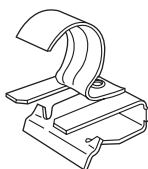
RETAINER CLIP ASSEMBLIES

Below Rail Base



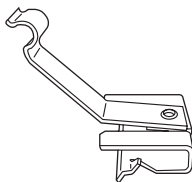
Part Number	Description	Standard Packaging
SBA2510B	3/4" Dia.	50
SBA2511B	1" Dia.	50
SBA2512B	1-1/4" Dia.	50

Rail Base



Part Number	Description	Standard Packaging
SBA252S0	3/4" Dia.	50
SBA252S1	1" Dia.	50
SBA252S2	1-1/4" Dia.	50

Web



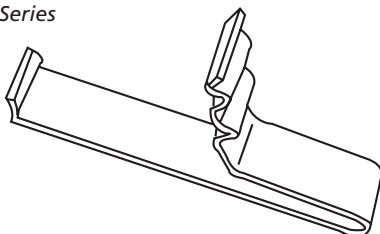
Part Number	Description	Standard Packaging
SBA254A1	3/8" Dia.	25
SBA255D1	1/2" Dia.	25

CABLE CLIPS

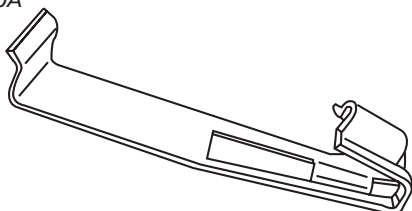
"SNAP-ON" STYLES

Stainless Steel Rail Type

SBA258 Series



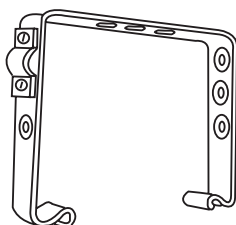
SBA260A



Part Number	Description	Std Pack
SBA258A1	6" Rail Base – Two 3/8"	25
SBA258B1	5.5" Rail Base – Two 3/8"	25
SBA258D1	5.5" Rail Base – One .5" Cable	25
SBA260A	6" Rail Base – Perpendicular Cable - One 3/8" Cable	25

Concrete Tie Clips

"Snap-On" Style Stainless Steel



Flexible configurations

Contact ERICO® with Application Information &

Concrete Tie Dimensions

GRINDERS & BONDING ACCESSORIES

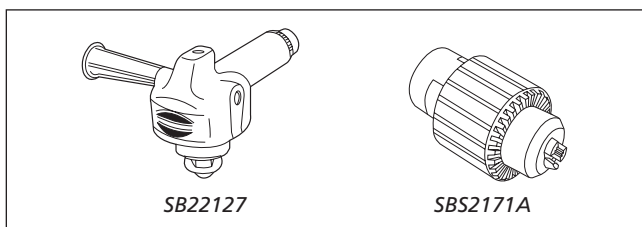
RAIL GRINDERS

Pedestal Rail Grinder (Gas Powered)



Part Number	Description
SBG141	3.5 HP (Briggs & Stratton® I/C) Grinder with 6' Shaft & Housing Base Plate Shaft Adapter Straight Spindle 6" Wheel & Guard Dressing Stone

SBG141 Drill Attachment Parts

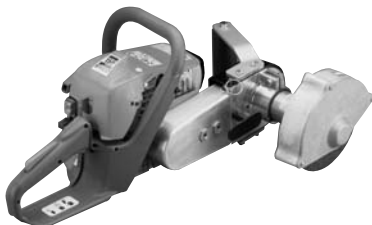


Part Number	Description
SBL165	Drill Attachment – complete with angle spindle & drill chuck
SBL165SA	Drill Attachment – Frame Only
SB22127	Angle spindle – 10:1 ratio
SB22127A	Replacement gear kit for Angle spindle
SBS2171A	Drill chuck – 1/8" to 5/8" key type
SBS2171AK	Drill chuck key
T385B	3/8" Bonding bit / round shank

GRINDERS & BONDING ACCESSORIES

RAIL GRINDERS

Portable Grinder (2 cycle gasoline powered)



Part Number	Description
SBG150	Rail Grinder – 39cc, 6,000 rpm, 18 lbs.
SBG150WC	Rail Grinder with Storage Case
SBS2333	6" Grinding Wheel – 3/4" original replacement
SB22122	6" Grinding Wheel – 1" replacement
S2129	6" Beveled Grinding Wheel – Head Free Rail
SBK104	Slotting Wheel Kit – Includes 6" x 1/8" slotting wheel, spacer, depth gauge, insulation
22128	6" Slotting Wheel with mounting spacer
22128P	6" Slotting Wheel
SBT365	Silicon Rubber Insulation – 3 oz tube

GRINDERS & BONDING ACCESSORIES

RAIL GRINDERS

Portable Grinder (4 cycle gasoline powered)



Part Number	Description
SBG200	Rail Grinder – 1.1 hp, 10,500 rpm, 13 lbs.
SBG20015	Cup Style Wheel for SBG200
SBG20018	Plug Style Wheel for SBG200
SBG200COFF	Cutting Adapter, Guard, and Cutting Wheel
SBG20027	Cutting Wheel replacement (std. package of 5)

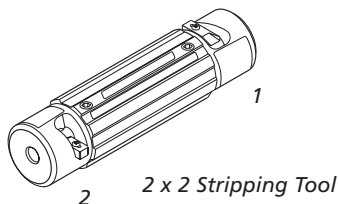
Portable Grinder (battery powered)



Part Number	Description
SBG100	Rail Grinder, 18 volt, 6,500 rpm, 7 lbs
SBG20025	Cleaning Wheel, 4.5" x .25" Depressed Center, designed for right angle use (std. package of 5)
SBG20027	Cutting Wheel, Disk type, 4.5" x .08" (std. package of 5)

TOOLS & BONDING ACCESSORIES

Stripping Tools 2 x 2



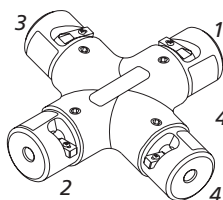
Part Number	Description	
	Bushing 1	Bushing 2
SBRT36100106	3/16" Bond Strand, 4/64" Insulation	#6 Solid, Concentric 8/64" Insulation
SBRT36100134	3/16" Bond Strand, 6/64" Insulation	#6 Concentric, 5/64" Insulation
SBRT36100135	3/16" Bond Strand, 4/64" Insulation	#9 Solid, 10/64" Insulation
SBRT36100136	3/16" Bond Strand, 4/64" Insulation	3/16" Bond Strand, 6/64" Insulation
SBRT36100138	3/16" Bond Strand, 6/64" Insulation	#6 Solid, Concentric 8/64" Insulation
SBRT36100139	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 11/64" Insulation
SBRT36100140	3/16" Bond Strand, 6/64" Insulation	#6 Solid, 11/64" Insulation
SBRT36100142	#6 Solid, 1/64" Insulation	#6 Solid, 12/64" Insulation
SBRT36100147	3 Conductor, 6/64" Insulation	#6 Solid, 6/64" Insulation
SBRT36100148	7 Conductor, 6/64" Insulation	#9 Solid, 6/64" Insulation
SBRT36100149	3/16" Bond Strand, 6/64" Insulation	#6 Solid, 7/64" Insulation
SBRT36100150	5 Conductor, 6/64" Insulation	#9 Solid, 6/64" Insulation
SBRT36100152	10 Conductor, 6/64" Insulation	12 Conductor, 6/64" Insulation
SBRT36100177	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 12/64" Insulation

Blades

Part Number	Description
SBRTCB6667	Replacement Blades-Pkg of 5

TOOLS & BONDING ACCESSORIES

Stripping Tools 4 x 4



4 x 4 Stripping Tool

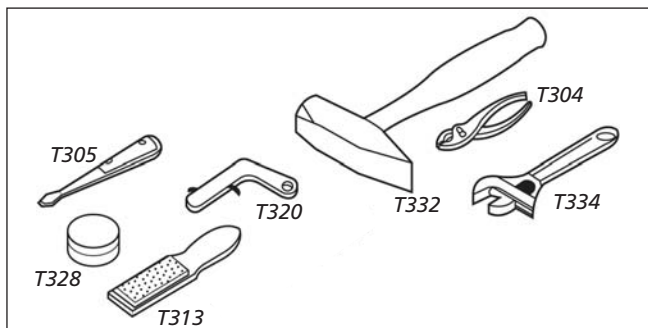
Part Number	Description	
	Bushing 1	Bushing 2
SBRT36000906	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 11/64" Insulation
SBRT36000907	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 11/64" Insulation
SBRT360001004	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 11/64" Insulation
SBRT360001010	3/16" Bond Strand, 6/64" Insulation	3/16" Bond Strand, 6/64" Insulation
	Bushing 3	Bushing 4
SBRT36000906	#6 Solid, 12/64" Insulation	#9 Solid, 10/64" Insulation
SBRT36000907	#6 Solid, 12/64" Insulation	2/0 Ropelay, 6/64" Insulation
SBRT360001004	#6 Solid, 12/64" Insulation	3/16" Bond Strand, 6/64" Insulation
SBRT360001010	#6 Solid, 11/64" Insulation	#6 Solid, 12/64" Insulation

Replacement & Additional Bushings

Part Number	Description
SBRT1034048	3/16" Bond Strand, 4/64 Insul.
SBRT1040075	3/16" Bond Strand, 6/64 Insul.
SBRT1037590	#6 Solid, 7/64" Insulation
SBRT10450110	#6 Solid, Concentric 8/64" Insul.
SBRT10515145	#6 Solid, 11/64" Insulation
SBRT10550162	#6 Solid, 12/64" Insulation
SBRT1030075	#9 Solid, 6/64" Insulation
SBRT10430135	#9 Solid, 10/64" Insulation
SBRT1036060	#6 Concentric, 5/64" Insulation
SBRT11102575	3 Conductor, 6/64" Insulation
SBRT11100075	5 Conductor, 6/64" Insulation
SBRT11105075	7 Conductor, 6/64" Insulation
SBRT1187575	10 Conductor, 6/64" Insulation
SBRT1197575	12 Conductor, 6/64" Insulation
SBRT1067575	2/0 Ropelay, 6/64" Insulation

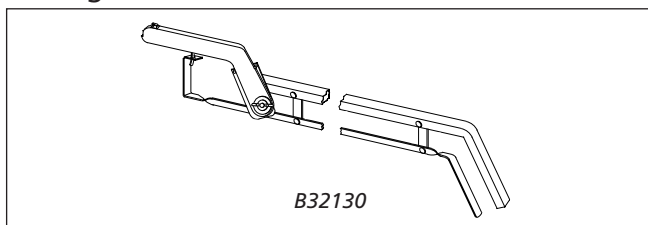
TOOLS & BONDING ACCESSORIES

Miscellaneous Tools



Part Number	Description
T304	Slip Joint Pliers
T305	Screw Driver
T313	Card Cloth Brush
T320	Flint Ignitor
T320A	Replacement Flints (10 each/package)
T328	Disk Container
T332	Engineers Hammer, 3 lb. size
T334	Adjustable 6" Wrench for Welder
SBB394C	T-34 Rail Head and Web Cleaner, One Universal Tool
SBA127A	Replacement Cutting Disk for T-34
B136D	Mold Cleaner
T403	Mold Sealer - 2 Pound Tub
B32130	Flint Ignitor Extension (30")

Flint Ignitor Extension



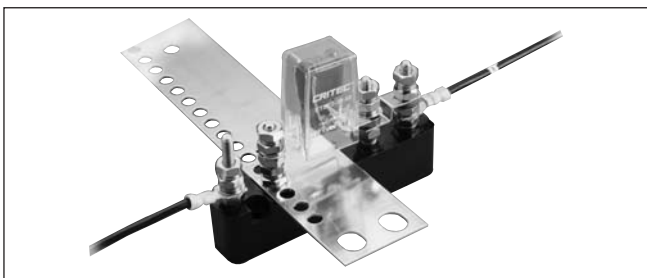
ERICO® TOTAL FACILITY PROTECTION

PRODUCTS FOR HIGH FREQUENCY, LOW IMPEDANCE, PATH TO GROUND

- Meets AAR Recommendations
- Modular Design for Field Assembly and Future Expansion
- Pre-Engineered and Manufactured Panels
- Design Assistance for Special Applications
- Separation of "Clean" from "Dirty" Wiring
- Improved Arrester Performance

4 Terminal Block

- Integrated Test Terminal
- Slot for Low Impedance Busbar
- Integral, High Current Busbar



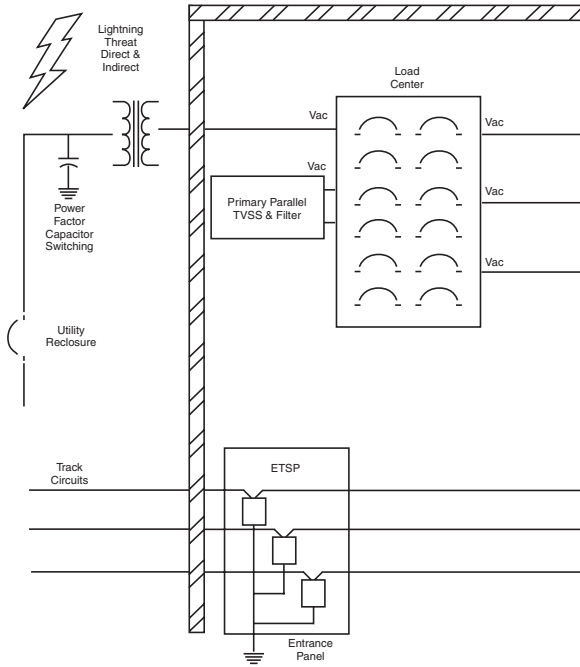
Part Number	Description
SBB2700A2B10	Terminal Block - Box of 10
S2700A2C1WH	Terminal Block with AAR Hardware
B2700HC36T	Terminal Strip - 36"
B2700HC48T	Terminal Strip - 48"
B2700HC60T	Terminal Strip - 60"

Contact ERICO® For Design Assistance

ERICO® SOLUTIONS TO

Typical Signal Bungalow Power Protection Layout

WITH TRANSIENT

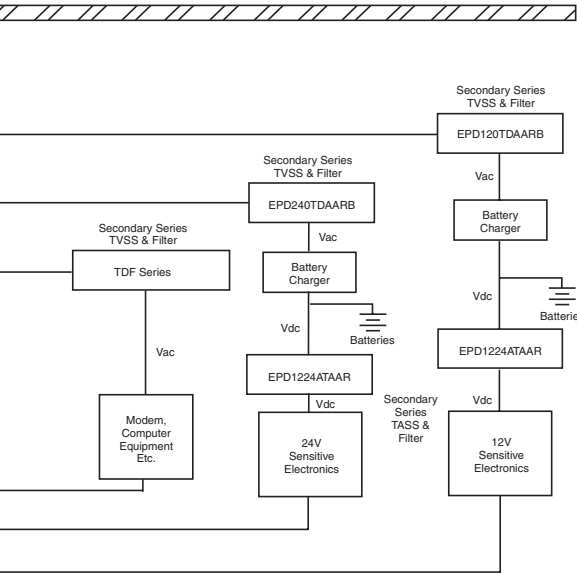


Part Number	Description
EPD120/240TDFL	120/240VAC primary surge protector, TD Technology, flying lead, 85kA
EPD100HZ120V	120VAC, 100HZ primary surge protector, fused, TD Technology, 120kA
EPD100HZ120240V	120/240VAC, 100HZ, primary surge protector, fused, TD Technology, 120kA
EPD100HZ240V	240VAC, 100HZ primary surge protector, fused, TD Technology, 120kA

POWER QUALITY PROBLEMS

Using ERICO® Protection Devices For Total Facility Protection

DISCRIMINATING (TD) TECHNOLOGY



Part Number	Description
EPD1224ATAAR EPD120TDAARB EPD240TDAARB	12 & 24VDC secondary power protector, 30A max load 120VAC secondary power protector, 30A max load 240VAC secondary power protector, 30A max load
ETSP23050	50VDC / 35VAC Signal Protector, 30kA, 2 terminal arrestor
ETSP33050	50VDC / 35VAC Signal Protector, 30kA, 3 terminal arrestor
ETSP230170	170VDC / 120VAC Signal Protector, 30kA, 2 terminal arrestor
ETSP330170	170VDC / 120VAC Signal Protector, 30kA, 3 terminal arrestor

PRIMARY SURGE PROTECTION

CRITEC® EPD Power Surge Devices

- Transient Discriminating Technology helps ensure safe operation during abnormal over voltage events
- Parallel hybrid TVSS technology
- Low let-through voltage
- Visual status indication
- 5 year limited warranty



Part Number	Description
EPD120/240TDFL	120/240VAC primary surge protector, TD Technology, flying lead, 85kA

- Transient Discriminating Technology helps ensure safe operation during abnormal over voltage events
- Series hybrid TVSS technology
- Optimal let-through voltage performance
- Visual status indication
- 5 year limited warranty

Part Number	Description
EPD100HZ120V	120VAC, 100HZ, primary surge protector, fused, TD Technology, 120kA
EPD100HZ120240V	120/240VAC, 100HZ, primary surge protector, fused, TD Technology, 120kA
EPD100HZ240V	240VAC, 100HZ, primary surge protector, fused, TD Technology, 120kA

Contact ERICO® for additional information on our full line of CRITEC surge protection devices.

PRIMARY SURGE PROTECTION

CRITEC® ETSP Track Circuit Protection Devices

- Hybrid technology comprising gap-type voltage switching and varistor-type voltage clamping components
- Design helps ensure a fail-safe, open-circuit, failure mode
- Visual status indication to aid serviceability
- Device and cover plainly marked with voltage and part number to help ensure proper application
- 50kA maximum surge rating provides protection suitable for exposed trackside equipment
- Low let-through voltage
- Epoxy coating helps ensure stability of operation under adverse conditions and in locations of high humidity
- 5 year limited warranty



Part Number	Description
ETSP23050	50VDC/35VAC Signal Protector, 30kA, 2 terminal arrestor
ETSP33050	50VDC/35VAC Signal Protector, 30kA, 3 terminal arrestor
ETSP230170	170VDC/120VAC Signal Protector, 30kA, 2 terminal arrestor
ETSP330170	170VDC/120VAC Signal Protector, 30kA, 3 terminal arrestor

SECONDARY SURGE PROTECTION

CRITEC® EPD Power Surge Devices

- Series hybrid TVSS technology
- Universal design for 12VDC & 24VDC applications
- 30A series filter
- High surge rating provides a high level of protection and long operational life
- Low let-through voltage
- RFI/EMI filtering
- Visual status indication
- AAR terminals
- 5 year limited warranty



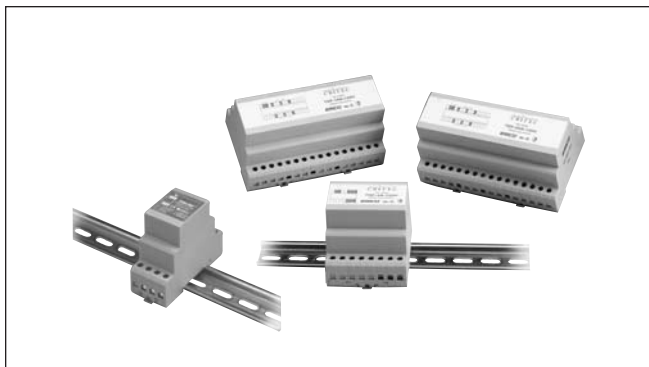
Part Number	Description
EPD1224ATAAR	12 & 24VDC secondary power protector, 30A max load
EPD120TDAARB	120VAC secondary power protector, 30A max load
EPD240TDAARB	240VAC secondary power protector, 30A max load

PERIPHERAL POWER PROTECTION

DINLINE SURGE FILTERS

- Compact design – small footprint
- High efficiency sine wave filtering
- DIN rail mount
- Status indication
- High surge rating, 50kA (TDF), 8kA (DSF)
- TD technology

CRITEC® Transient Discriminating Filter & DINLINE Surge Filter (TDF & DSF)



Part Number	Description
DSF6A30V	24VDC/30VAC 1 phase 2W+G, 6A series filter
TDF3A120V	120V 1 phase 2W+G, 50kA, 3A series filter
TDF3A240V	240V 1 phase 2W+G, 50kA, 3A series filter
TDF10A120V	120V 1 phase 2W+G, 50kA, 10A series filter
TDF10A240V	240V 1 phase 2W+G, 50kA, 10A series filter
TDF20A120V	120V 1 phase 2W+G, 50kA, 20A series filter
TDF20A240V	240V 1 phase 2W+G, 50kA, 3A series filter

DIN SURGE DIVERter

- Photo Voltaic and Telepower distribution
- Surge rating to 40kA - Ideal for exposed wiring
- 24VDC & 48VDC distribution systems

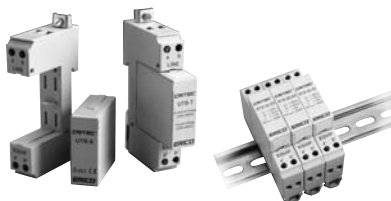
Part Number	Description
DSD1402BR24/48	24/48VDC 36 mm DIN 43 880 Profile, 40kA 8/20us

COMMUNICATIONS & DATA EQUIPMENT PROTECTION

CONTROL SIGNAL EQUIPMENT PROTECTION

- Protection of low voltage circuits and transducers
- Separate plug and base design – facilitates ease of module replacement
- Efficient multiple stage clamping circuit technology helps ensure lowest possible residual let-through voltage
- Common-mode and differential-mode protection – protects against both possible surge conditions
- Ease of grounding – through DIN mounting rail or via terminal
- Surge rating to 20kA – ideal for exposed wiring
- 5 year Limited Warranty

Universal Transient Barrier (UTB and UTBTA)



Part Number	Description
UTB5	0-7Vpk, 20kA, 1.5A Load Current
UTB15	5-18Vpk, 20kA, 1.5A Load Current
UTB30	15-33Vpk, 20kA, 1.5A Load Current
UTB60	30-64Vpk, 20kA, 1.5A Load Current
UTB110	120V _{AC} , 20kA, 1.5A Load Current
UTBTA	UTB, Secondary Telephone Protector

Rail Transient Barriers (RTB)

- Includes all features of UTB plus fail-safe, open circuit, failure mode.

Part Number	Description
RTB12S3	12V _{DC} , 20kA, 1.5A Load Current
RTB30S3	30V _{DC} , 20kA, 1.5A Load Current
RTB50S2	50V _{DC} , 20kA, 1.5A Load Current
RTB60S1	60V _{DC} , 20kA, 1.5A Load Current

COMMUNICATIONS & DATA EQUIPMENT PROTECTION

RADIO COMMUNICATIONS PROTECTION

- Robust design
- Simple plug-in installation
- CSP models to suit N and BNC cable terminations
- CSP bulkhead N-type versions available
- High impulse current rating (20kA 8/20μs)
- Wide operating frequency spectrum
- Low insertion and return loss
- Mounting bracket and ground lead included
- CE approved

Coaxial Surge Protector - CSP



Part Number	Description
CSPNMF90	N-Type M to F, 72-108V
CSPNMF600	N-Type M to F, 480-720V
CSPBNC90	BNC-Type M to F, 72-108V
CSPBNC600	BNC-Type M to F, 480-720V
CSPNB90	Bulkhead N-Type F to F, 72-108V
CSPNB600	Bulkhead N-Type F to F, 480-720V

How to Choose the Correct CSP

For RF circuit protection the CSP is available with a choice of two nominal clamping voltages. The selection of the CSP unit is based on the peak transmitting power of the communication circuit. From this the peak circuit voltage is calculated and the CSP with the next highest clamping voltage is selected.

The formula is:

$$V_{\text{peak}} = \text{VSWR} \times 1.4 \times \text{Sqrt}(50 \times \text{Transmit Power})$$

Where VSWR is the Voltage Standing Wave Ratio (use 1.5 if unsure) and Transmit Power is in Watts.

If $V_{\text{peak}} < 72\text{V}$ use CSPxxx90

If $V_{\text{peak}} > 72\text{V}$ & $< 480\text{V}$ use CSPxxx600

GROUNDING

ERITECH® GROUND RODS



Figure 1

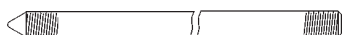
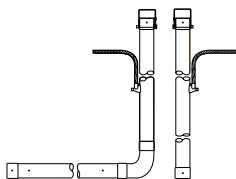


Figure 2

Part Number	Diameter	Figure	Standard Packaging	Length
Pointed Copper Bonded Rods				
615850	5/8"	1	5	5'
615880	5/8"	1	5	8'
615800	5/8"	1	5	10'
613480	3/4"	1	5	8'
613400	3/4"	1	5	10'
Pointed Copper Bonded Rod Couplings				
CC58	5/8"		25	
CC34	3/4"		25	
Sectional Copper Bonded Rods				
635880	5/8"	2	5	8'
635800	5/8"	2	5	10'
633480	3/4"	2	5	8'
633400	3/4"	2	5	10'
Sectional Copper Bonded Rod Couplers				
CR58	5/8"		25	
CR34	3/4"		25	

CHEMICAL GROUND ROD ELECTRODE KIT



Part Number	Description
ECRV10 "xx"4"y"	10' Vert. w/4' Pigtail, Backfill Material, Cover
ECRV12 "xx"4"y"	12' Vert. w/4' Pigtail, Backfill Material, Cover
ECRV15 "xx"4"y"	15' Vert. w/4' Pigtail, Backfill Material, Cover
ECRV20 "xx"4"y"	20' Vert. w/4' Pigtail, Backfill Material, Cover
ECRH10 "xx"4"y"	10' Horz. w/4' Pigtail, Backfill Material, Cover
ECRH12 "xx"4"y"	12' Horz. w/4' Pigtail, Backfill Material, Cover
ECRH15 "xx"4"y"	15' Horz. w/4' Pigtail, Backfill Material, Cover
ECRH20 "xx"4"y"	20' Horz. w/4' Pigtail, Backfill Material, Cover

"xx" – Cable code for specified pigtail conductor (4/0 conc typical)

"y" – Pigtail orientation: U-up, D-down

Extended "sectional" versions available for rods longer than 20 feet.

GROUNDING

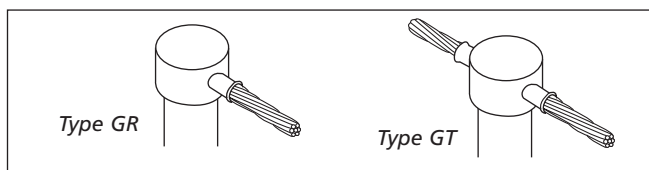
CADWELD® ONE SHOT CONNECTIONS

The CADWELD ONE SHOT consists of a ceramic mold, disk, welding material and cover.

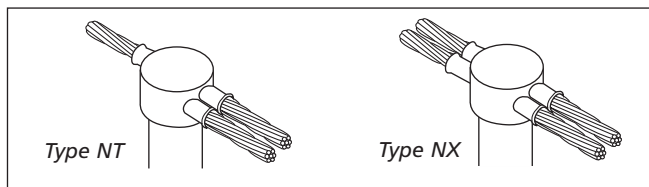
- Disposable ceramic unit eliminates graphite mold.
- Produces a permanent connection that will not loosen or corrode.
- Fits both plain or threaded copperclad and full size, steel and stainless steel rods.

Standard Package 6

Cable-To-Ground Rod



Ground Rod Size	Conductor Size		Connector Part Number	
	Solid	Stranded	Type GR	Type GT
1/2"	#6, 8	#8	SBGR1141G	SBGT1141G
	3, 4	4, 6		SBGT1141L
	1, 2	2, 3		SBGT1141V
5/8"	6, 8	8	SBGR1161G	SBGT1161G
	3, 4	4, 6	SBGR1161L	SBGT1161L
	1, 2	2, 3	SBGR1161V	SBGT1161V
3/4"	6, 8	8	SBGR1181G	SBGT1181G
	3, 4	4, 6	SBGR1181L	SBGT1181L
	1, 2	2, 3	SBGR1181V	SBGT1181V



Ground Rod Size	Conductor Size		Connector Part Number	
	Solid	Stranded	Type NT	Type NX
1/2"	#6, 8	#8	SBNT1141G	
	3, 4	4, 6	SBNT1141L	
	1, 2	2, 3	SBNT1141V	
5/8"	6, 8	8	SBNT1161G	SBNX1161G
	3, 4	4, 6	SBNT1161L	SBNX1161L
	1, 2	2, 3	SBNT1161V	SBNX1161V
3/4"	6, 8	8	SBNT1181G	SBNX1181G
	3, 4	4, 6	SBNT1181L	SBNX1181L
	1, 2	2, 3	SBNT1181V	SBNX1181V

Other sizes available - Contact ERICO® with application.

GROUNDING

GEM GROUND ENHANCEMENT MATERIAL



Part Number	Description
GEM25A	25 Pound Bag

A superior conductive material that helps solve the toughest grounding problems.

- Improves grounding effectiveness regardless of soil conditions.
- Can use where ground rods cannot be driven or where limited land area makes adequate grounding difficult with conventional methods.
- Unmatched for reducing earthing resistance and maintaining low resistance permanently.
- Effective - Typical resistivity 12-18 OHM cms (20 times lower than Bentonite clay)

GROUND TESTERS

Earth Systems Tester Units



Part Number	Description
EST101	Handy Earth Tester, 2 Pole Resistance; 3 Pole Ground/Earth Resistance Measurements @ 128Hz; Ground to Neutral Voltage and Impedance
EST201	Earth System Tester, 2 Pole AC Resistance; 2 and 3 Pole Ground/Earth Resistance Measurements; 4 Pole Soil Resistivity
EST301	Universal Earth System Tester, 2 Pole AC, 2 and 3 Pole Ground/Earth Resistance; 4 Pole Soil Resistivity & Clamp on Stakeless and Selective measurement capabilities

GROUNDING

ALUMINUM-COPPER GROUNDING STUD

Aluminum Signal Mast

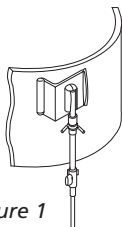


Figure 1

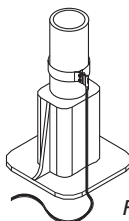


Figure 2

Part Number	Description (#6 Solid Copper Pigtail)	Figure Number
	Aluminum-Copper Grounding Stud	
SBB855E1G72	with 72" long Pigtail	1
SBB855E1G96	with 96" long Pigtail	1
	Signal Mast Grounding Clamp	
SBB852A8C1G48	with 48" long Pigtail - 3" to 8" Mast Dia.	2
SBB852A8C1G72	with 72" long Pigtail - 3" to 8" Mast Dia.	2
SBB852A12C1G96	with 96" long Pigtail - 3" to 12" Mast Dia.	2

Aluminum Signal Case

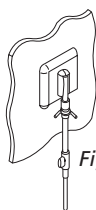


Figure 3

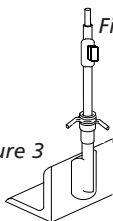


Figure 4

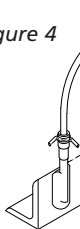


Figure 5

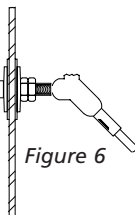


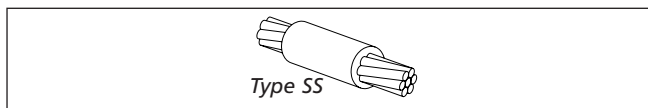
Figure 6

Part Number	Description	Figure Number
	Aluminum-Copper Grounding Stud	
SBB855C1G36	with 36" long Pigtail, #6 Solid	3
SBB855C1G48	with 48" long Pigtail, #6 Solid	3
SBB855C1K48	with 48" long Pigtail, #4 Solid	3
SBB855F1G48	with 36" long Pigtail, #6 Solid	4
SBB855G1G30	with 30" long Pigtail, #6 Solid	5
	Feed-Through Stud	
SBB853B	with Hardware	6
SBB853A72	with Hardware and 72" long Pigtail, #6 Solid	6

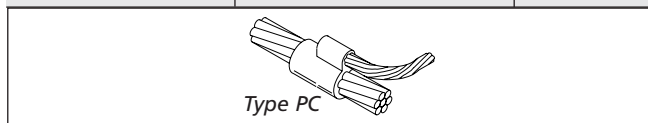
Other Pigtail sizes available.

GROUNDING

CADWELD® CONNECTIONS CABLE-TO-CABLE



Cable Size	Welder Part No.	Welding Material
#6 Sol	SB02SS6	SB25
4	SB03SS1L	SB25
2	SB10SS1V	SB32
3/16"	SB02SS3	SB25
3/16"	SB02SS3001	SB32



Cable Size	Welder Part No.	Welding Material
Run		
#6 Sol	SB10PC66	SB32
#6 Sol	SB02SC66001	SB25
#6 Sol	SB02SC65001	SB32
3/16"	SB02SC36001	SB25
3/16"	SB02SC33001	SB25
Tap		
#6 Sol		
#6 Sol		
5/16"		
#6 Sol		
3/16"		

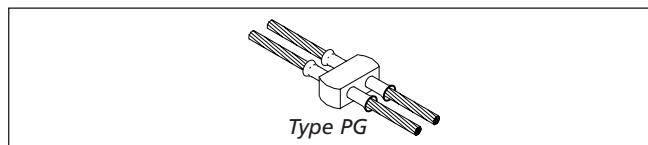
CADWELD® ONE SHOT CONNECTIONS

The CADWELD ONE SHOT consists of a ceramic mold, disk, welding material and cover.

- Disposable ceramic unit eliminates graphite mold.
- Produces a permanent connection that will not loosen or corrode.

Standard Package 6

Cable-To-Cable



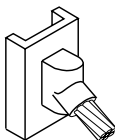
Conductor Size		Parallel Tap Part Number
Solid	Stranded	
3, 4, 6	4, 6	SBPG11L

GROUNDING

CABLE-TO-STEEL STRUCTURES

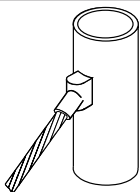
Flat Vertical Surface

Type VS



Cable Size	Welder Part No.	Welding Material
Sol 4	SB01VS4	SB25
Sol 6	SB01VS6	SB25
Sol 6	SB01VS6001	SB32
Sol 8	SB01VS8	SB25
3/16"	SB01VS3	SB25

Round Vertical Surface

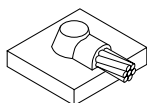


Cable Size	Welder Part No.	Welding Material
Sol 6	SB01VS6V5C	SB25
Sol 6	SB01VS6V5C01	SB32

GROUNDING

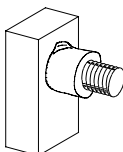
CADWELD® CONNECTIONS CABLE-TO-STEEL STRUCTURES

Horizontal Flat Surface

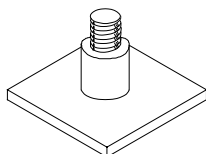


Type HA

Cable Size	Welder Part No.	Welding Material
Sol 6 Sol 6	SB41HA6 SB41HA6001	SB32 SB25



Type HV

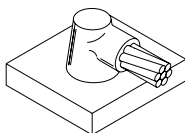


Type HX

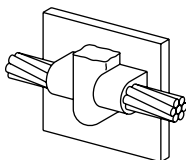
Cable Size	Welder Part No.	Welding Material
1/4" AAR Split Stud	SB01HV10001 SB01HV10002 SB01HX10002	SB32 2-SB25 SB32

SBK012 - 1/4" Split Stud Kit (Includes AAR thread stud, washer, clamping nut and binding nut)

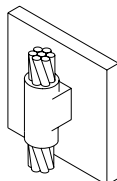
Other Types and Sizes Available



Type HS



Type VG



Type VV

ALPHA-NUMERIC LISTING

Part Number	Page	Part Number	Page
22128	24	CSPBNC600	37
22128P	24	CSPBNC90	37
613400	38	CSPNB600	37
613480	38	CSPNB90	37
615800	38	CSPNMF600	37
615850	38	CSPNMF90	37
615880	38	DSD1402BR24/48	35
633400	38	DSF6A30V	35
633480	38	ECRH10"XX"4"Y"	38
635800	38	ECRH12"XX"4"Y"	38
635880	38	ECRH15"XX"4"Y"	38
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A154	20	ECRV12"XX"4"Y"	38
A203	20	ECRV15"XX"4"Y"	38
A205	20	ECRV20"XX"4"Y"	38
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A2367J	16	EPD120TDAARB	34
A2412J	16	EPD1224ATAAR	34
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B101AA	17	EST201	40
B136D	28	EST301	40
B154A	17	ETSP230170	33
B194D	10	ETSP23050	33
B2700A2C1WH	29	ETSP330170	33
B2700HC36T	29	ETSP33050	33
B2700HC48T	29	GEM25A	40
B2700HC60T	29	M22	13
B32130	28	RTB12S3	36
B323L	11	RTB30S3	36
C105B	13	RTB5032	36
CC34	38	RTB60S1	36
CC58	38	S119	10
CR34	38	S2044	10
CR58	38	S2129	24

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S2659	10	SBA2510B	21
SB01HV10001	44	SBA2511B	21
SB01HV10002	44	SBA2512B	21
SB01HX10002	44	SBA252S0	21
SB01VS3	43	SBA252S1	21
SB01VS4	43	SBA252S2	21
SB01VS6	43	SBA254A1	21
SB01VS6001	43	SBA255D1	21
SB01VS6V5C	43	SBA258A1	22
SB01VS6V5C01	43	SBA258B1	22
SB01VS8	43	SBA258D1	22
SB02SC33001	42	SBA260A	22
SB02SC36001	42	SBB200A	13
SB02SC65001	42	SBB200B	13
SB02SC66001	42	SBB200C	13
SB02SS3	42	SBB200D	13
SB02SS3001	42	SBB200E	13
SB02SS6	42	SBB2516A	10
SB03SS1L	42	SBB2516APRWH	10
SB10PC66	42	SBB2700A2B10	29
SB10SS1V	42	SBB2721B	19
SB20104	8	SBB2721CS72	19
SB20108	8	SBB2721F	19
SB20112	8	SBB2721G	19
SB20116	8	SBB2721H	19
SB20118	8	SBB2721JS72	19
SB20128	8	SBB2721S	19
SB20136	8	SBB2721T	19
SB20175	8	SBB2721VS72	19
SB20175HF	8	SBB343A	11
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SB22127	23	SBB343C	11
SB22127A	23	SBB343D	11
SB25	11, 17	SBB343E	11
SB32	11, 17	SBB394C	28
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SB41HA6001	44	SBB492	9, 10
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SBA206	20	SBB852A8C1G48	41

ALPHA-NUMERIC LISTING

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SBB852A12C1G96	41	SBGT1181L	39
SBB853A72	41	SBGT1181V	39
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SBB855C1G48	41	SBHFT6C	9
SBB855C1K48	41	SBHFT6D	9
SBB855E1G72	41	SBHFT7E	9
SBB855E1G96	41	SBHFT7K	9
SBB855F1G48	41	SBK012A	17
SBB855G1G30	41	SBK012B	17
SBC105R	13	SBK104	24
SBC105SA	13	SBL165	23
SBC105S	13	SBL165SA	23
SBD50	11	SBM456	9, 10
SBD51	11	SBM456F	10
SBG100	25	SBNT1141G	39
SBG141	23	SBNT1141L	39
SBG150	24	SBNT1141V	39
SBG150WC	24	SBNT1161G	39
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SBG20025	25	SBNT1181L	39
SBG20027	25	SBNT1181V	39
SBG200COFF	25	SBNX1161G	39
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SBGR1161L	39	SBNX1181G	39
SBGR1161V	39	SBNX1181L	39
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SBGR1181L	39	SBPAC3A	15
SBGR1181V	39	SBPAC3G	15
SBGT1141G	39	SBPAC3R	15
SBGT1141L	39	SBPAC3Y	15
SBGT1141V	39	SBPACGBJ4	15
SBGT1161G	39	SBPAJ3 "XX"	14
SBGT1161L	39	SBPAJA "XX"	14
SBGT1161V	39	SBPAJB "XX"	14
SBGT1181G	39	SBPAJC "XX"	14

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SBPAJN "XX"	14	SBRT36100177	26
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SBPAJR "XX"	14	SBS09C	11
SBPAW35	15	SBS10	11
SBPG11L	42	SBS11C	11
SBPMJ3 "X"	15	SBS12C	11
SBPMJR "X"	15	SBS13C	11
SBPMJS "X"	15	SBS17CBARE	17
SBRT1030075	27	SBS2171A	23
SBRT1034048	27	SBS2171AK	23
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SBRT1040075	27	SBS24883	8
SBRT10430135	27	SBS24884	8
SBRT10450110	27	SBS3086R48	18
SBRT10515145	27	SBS3086R48WT	18
SBRT10550162	27	SBS3086S48	18
SBRT1067575	27	SBS3086S48WT	18
SBRT11100075	27	SBS5838	9, 10
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SBRT11105075	27	SBS5839	9
SBRT1187575	27	SBS898	9, 10
SBRT1197575	27	SBS898F	10
SBRT360001004	27	SBS8BARE	17
SBRT360001010	27	SBS8CBARE	17
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SBRT36000907	27	SBS8CINSUL	17
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SBRT36100135	26	SBS8LBARE	17
SBRT36100136	26	SBS8LINSORG	17
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SBRT36100139	26	SBS8TCINS	17
SBRT36100140	26	SBS8TCINS664	17
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SBS925F	10	SBTBTB5E	13
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SBT365	24	SBXSHU2	8
SBT382B	16	SBXSHU3	8
SBT382BWH	16	SBXSHU4	8
SBT382BWPH	16	SBXSJ33 "X"	12
SBT408	16	SBXSS33 "X"	12
SBTBB33 "X"	12	SBXST21A	13
SBTBB34 "X"	12	SBXST6A	9
SBTBB36 "X"	12	SBXST6C	9
SBTBB54 "X"	12	SBXST6D	9
SBTBBU4A	12	SBXST7D	9
SBTBCU412	12	SBXSTB4A	11
SBTBJ33 "X"	12	SBXSTB5A	13
SBTBJ34 "X"	12	T304	28
SBTBJ36 "X"	12	T305	28
SBTBJ54 "X"	12	T313	28
SBTBS33 "X"	12	T320	28
SBTBS34 "X"	12	T320A	28
SBTBS36 "X"	12	T328	28
SBTBS54 "X"	12	T332	28
SBTBT21B	13	T334	28
SBTBT21C	13	T369	16
SBTBT21D	13	T375	20
SBTBT21E	13	T385B	23
SBTBT6A	9	T403	28
SBTBT6B	9	TDF10A120V	35
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SBTBTB4E	11	UTB60	36
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PRODUCT LITERATURE

CAPABILITIES

R195S	SIX POINT PLAN OF PROTECTION FOR RAILWAY FACILITIES
R503B	RAIL PRODUCTS BROCHURE
X7A	FACILITY ELECTRICAL PROTECTION SOLUTIONS

GROUNDING

E1A	CADWELD® - WELDED ELECTRICAL CONNECTIONS
RT7F	GEM - GROUND ENHANCEMENT MATERIAL

LIGHTNING PROTECTION

E256C	ERITECH® SYSTEM 2000 - PASSIVE PROTECTION
E429B	ERITECH® SYSTEM 3000 - ACTIVE PROTECTION
R196S	TERMINAL BLOCK
RT7J	LIGHTNING PROTECTION FOR RAILWAY ELECTRICAL EQUIPMENT

SURGE PROTECTION

E430C	CRITEC® CATALOG
R199S	CRITEC EPD PRIMARY SURGE PROTECTION DEVICE
R558S	CRITEC ELECTRONIC TRACK CIRCUIT PROTECTION
R601S	CRITEC EPD 120V & 240V SECONDARY AC SURGE PROTECTION
R604S	CRITEC EPD 12/24V _{DC} 30A SECONDARY DC SURGE PROTECTION

PRODUCT LITERATURE

TOOLS

R337S	SBG150 PORTABLE GRINDER
R408C	ERICO® ERICONTACT MECHANICAL CONNECTIONS TO RAIL
R464S	SBG100 PORTABLE GRINDER
R474S	SBG200 PORTABLE GRINDER

TRAINING

R383D	SIGNAL BOND TRAINING CD
SBA7D	INSTALLERS & INSPECTORS GUIDE

NOTES

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