











CONNECT AND PROTECT

Rail Electrical Products



nVent Engineered Electrical & Fastening Solutions is a leading global manufacturer and marketer of superior engineered products for niche electrical, mechanical and concrete applications. These nVent products are sold globally under a variety of market-leading brands: nVent ERICO welded electrical connections, facility electrical protection, and rail and industrial products; nVent CADDY fixing, fastening and support products; nVent ERIFLEX low voltage power and grounding connections; and nVent LENTON engineered systems for concrete reinforcement.

For more information on nVent ERICO, CADDY, ERIFLEX and LENTON, please visit nVent.com.

NVENT CADDY FIXINGS, FASTENERS AND SUPPORTS FOR ELECTRICAL APPLICATIONS

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

NVENT CADDY FIXINGS, FASTENERS AND SUPPORTS FOR MECHANICAL APPLICATIONS

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

NVENT ERIFLEX LOW VOLTAGE PANEL COMPONENTS

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

nVent ERIFLEX Flexibar flexible insulated busbar.

NVENT ERICO ELECTRICAL PRODUCTS

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

nVent ERICO Cadweld welded electrical connections

nVent ERICO grounding and bonding products, lightning protection systems, surge protection devices

NVENT 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

nVent ERICO surge protection devices

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Tools & Bonding Accessories

TOTAL FACILITY PROTECTION Production for High Frequency Low Impedance, Path to Ground

SOLUTIONS TO POWER

CABLE CLIPS

Retainer Clips Retainer Clip Assemblies "Snap-on" Styles **Glued Rail Clip GRINDERS AND BONDING ACCESSORIES Rail Grinders Grinders & Drilling Machines**

4 Terminal Block 33

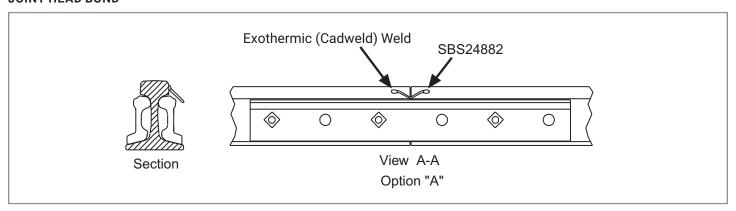
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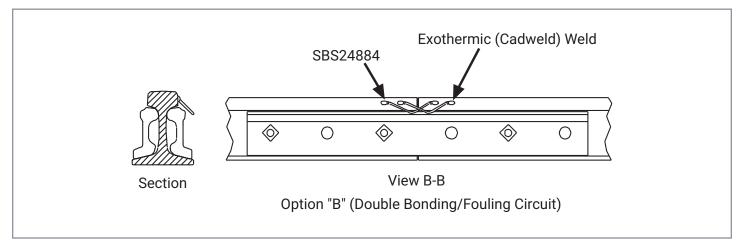
Typical Applications

SIGNAL BONDING

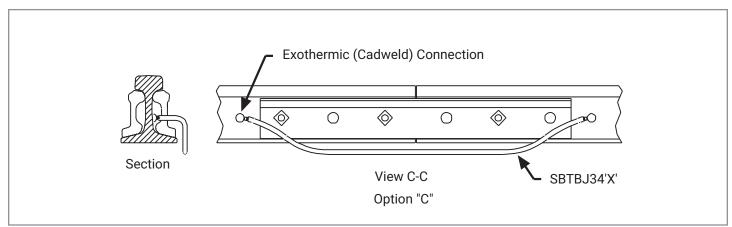
JOINT HEAD BOND



FOULING CIRCUIT



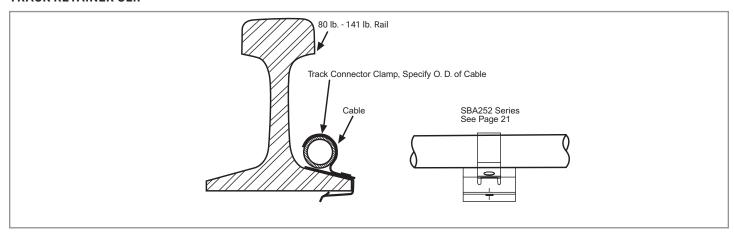
WEB BONDING



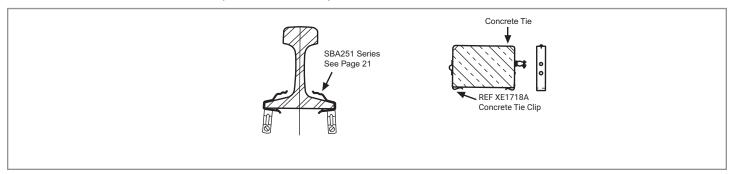
Typical Applications

TRACK CLIPS

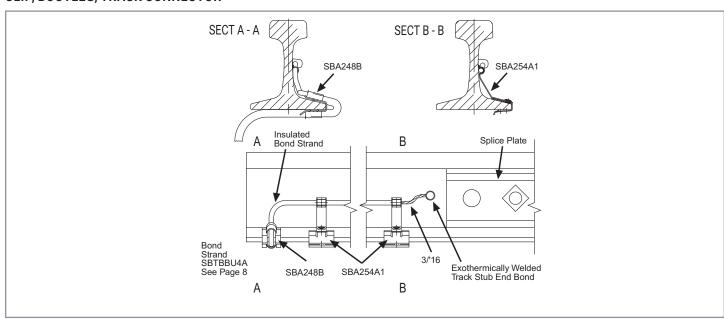
TRACK RETAINER CLIP



RAIL CLIP AND CONCRETE TIE CLIP (CONTACT NVENT)



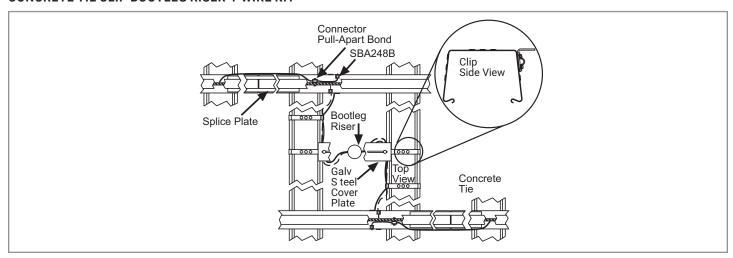
CLIP, BOOTLEG, TRACK CONNECTOR



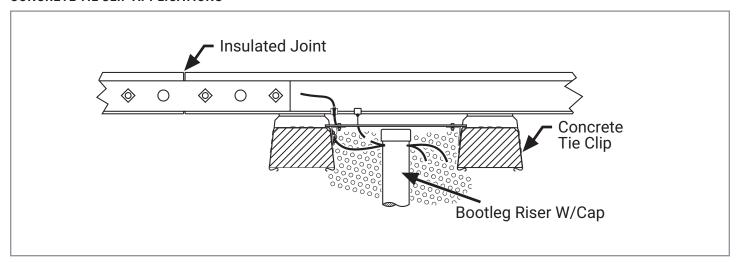
Typical Applications

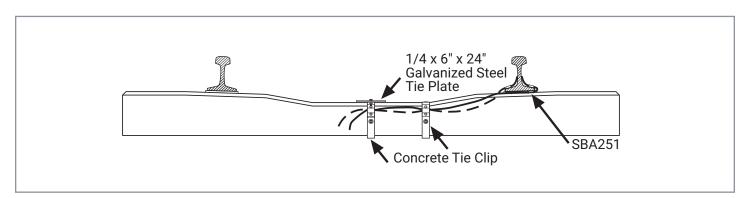
CONCRETE TIE CLIPS

CONCRETE TIE CLIP BOOTLEG RISER 4-WIRE KIT



CONCRETE TIE CLIP APPLICATIONS



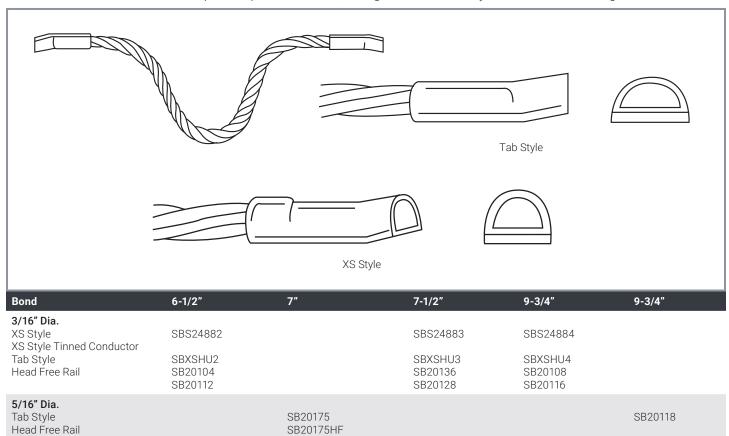


Cadweld Bonding Products

BONDS

JOINT HEAD BONDS

Order in boxes of 100 - Includes one pair of replacement molds, flint ignitor and necessary F80 formulation welding material.



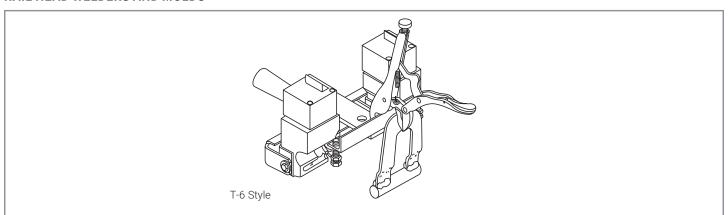
Also available as bond only.

Cadweld rail head joint bonds provide:

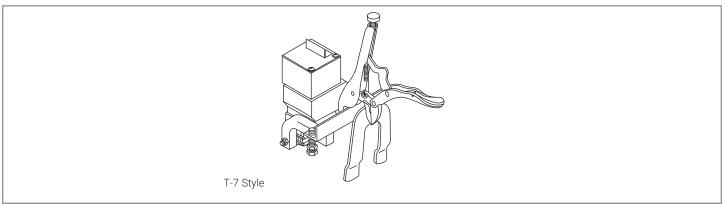
- · Maximum broken rail protection
- Unchanging electrical resistance
- · Maximum corrosion resistance
- · Easy installation, minimum installer skill required
- Simple and highly portable installation equipment
- Versatility, equally usable on old, worn, or new rail
- Durability, not destroyed by rail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

WELDERS AND MOLDS

RAIL HEAD WELDERS AND MOLDS



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



	3/16" Dia. Bonds	3/16" Dia. Bonds		
T-7 Style Bond Terminal	Welder Pair	Molds Only (Pair)	Welder Pair	Molds Only (Pair)
3/4" XS 3/4" Tab	SBXST7D SBTBT7F	SBM456 SBS5838		
1" Tab Head Free	SBTBT7F SBTBT7G SBHFT7E	SBS5839 SBS925	SBTBT7B SBHFT7K	SBS898 SBB492

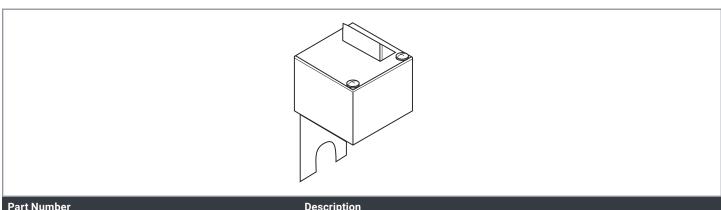
T-7 Welders are a convenient means of attaching rail head bonds wherever the standard T-6 Welder will not fit properly such as transposed rail and compromised joints.

WELDERS AND MOLDS

RAIL HEAD WELDERS AND MOLDS CONTINUED

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

REPLACEMENT MOLD COVERS FOR T-6 AND T-7 WELDERS



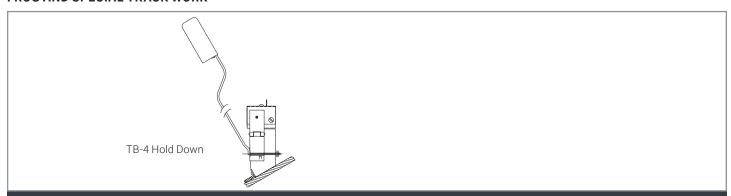
Part Number	Description
SBB2516A SBB2516APRWH	Single Replacement Cover Pair of Replacement Covers with Hardware

REPLACEMENT MOLD COVERS FOR T21 AND TB5 WELDERS

Part Number	Description
B30174 B2516C1 B2516C	Single Replacement Cover Single Replacement Cover Hardware Single Replacement Cover with Hardw are

WELDERS AND MOLDS

FROG AND SPECIAL TRACK WORK

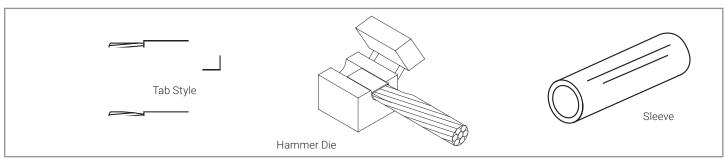


	TB-4 Welder		Replace-
Terminal Style	Hold Down	Frame Only	ment Mold
3/16" Dia.			
3/4" XS	SBXSTB4A	B323L	SBB343A
3/4" Tab	SBTBTB4B	B323L	SBB343B
1" Tab	SBTBTB4C	B323L	SBB343C
1-1/2" Tab	SBTBTB4D	B323L	SBB343D
5/16" Dia.			
1" Tab	SBTBTB4E	B323L	SBB343E

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

FIELD MADE BONDS

TAB-STYLE TERMINALS



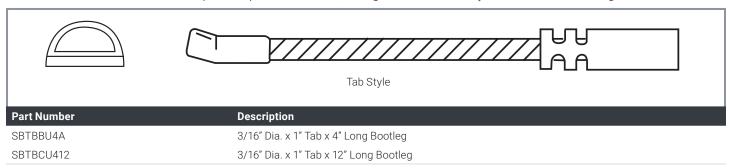
		Sleeves		Hammer Dies	F80 Welding Material	
Cable Size	Terminal Length	Part Number	Std. Pkg.	Part Number	Part Number	Std Pkg.
#6 Sol	1"	SBS10	100	NA	SB25	50
3/16"	3/4" 1" 1-1/2"	SBS11C SBS12C SBS13C	100 100 100	SBD50	SB25	50
5/16"	1"	SBS09C	100	SBD51	SB32	50

Cable - supplied by nVent 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.

BONDS

TRACK CONNECTORS - WEB

Order in boxes of 100 - Includes one pair of replacement molds, flint ignitor and necessary F80 formulation welding material.

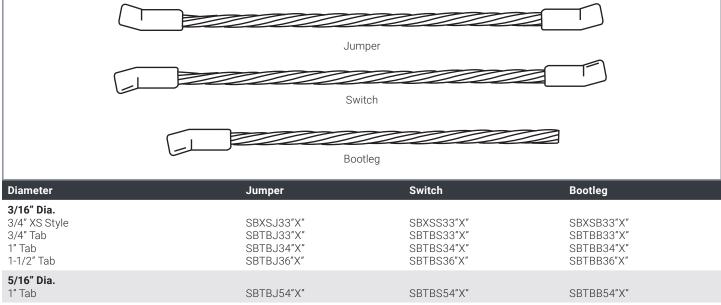


For complete Welder (SBTBT21C) see page 13 and compression tool (SBT031DJ) see page 16.

The Cadweld track connector from nVent 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

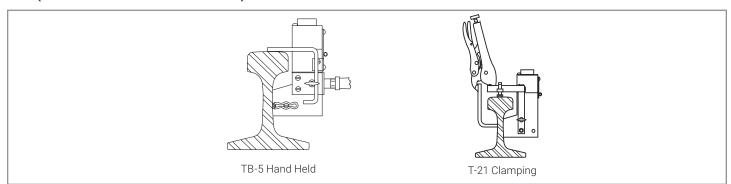
Substitute desired length of bond in even inches for 'X'. Replacement molds sold separately. All Cadweld bonds are furnished with the necessary F80 formulation welding material.



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

WELDERS AND MOLDS

WEB (FIELD MADE AND FACTORY MADE)

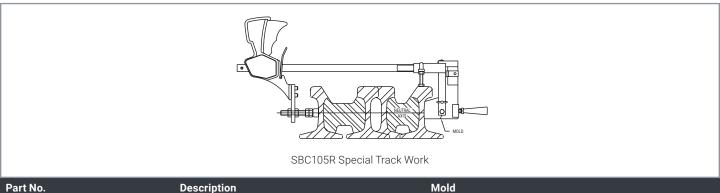


	TB-5 Welder		T-21 Welder		
Terminal Style	Hand Held	Frame Only	Clamping	Frame Only	Replace- ment Mold
3/16" Dia. 3/4" XS 3/4" Tab 1" Tab 1-1/2" Tab	SBXSTB5A SBTBTB5B SBTBTB5C SBTBTB5D	M22	SBXST21A SBTBT21B SBTBT21C SBTBT21D	C105B	SBB200A SBB200B SBB200C SBB200D
5/16" Dia. 1" Tab	SBTBTB5E	M22	SBTBT21E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



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

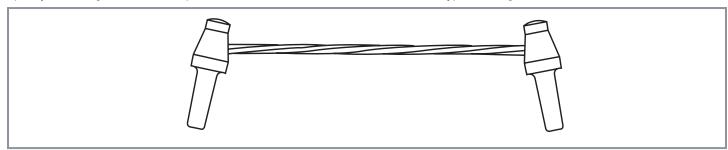
- Adjusts for wide span usage e.g. frogs, switches, etc. (25-1/2" Max. Span)
- · Easy to use and lightweight.
- · Can be used with existing head and web molds.
- · Can also be used on standard (single) rail.

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% Copper-bonded	0.3060
SBPAJD"XX"	7-#12	7-40% Copper-bonded	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.

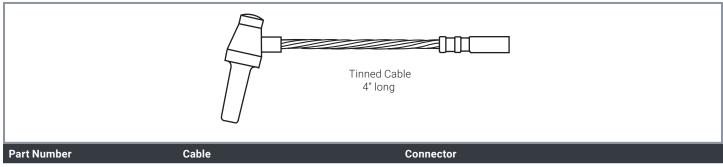
nVent ERICO plug bonds are designed for application to the rail web. Plug bonds are

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.

BONDS

TRACK CONNECTORS "CHICKEN HEADS"

Standard Package 200



Part Number	Cable	Connector
SBPAC3A		3/16" - #6 str
SBPAC3G		#8 str/#6sol
SBPAC3R	3/16"	#9 str/#8sol
SBPAC3Y		#10 str/#9sol
SBPAW35		3/8" tapered plug
SBPACGBJ4	1/4"	3/16" - #6 str

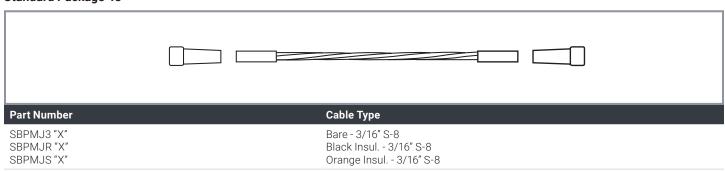
The nVent ERICO track connector is used when bond strand is being utilized for track connections, fouling circuits, and even bonding around the splice bar. The plug terminal is hammered into a 3/8" diameter hole drilled through the rail web (driven from same side hole was drilled).

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



MULTI-PURPOSE BONDS

Standard Package 48



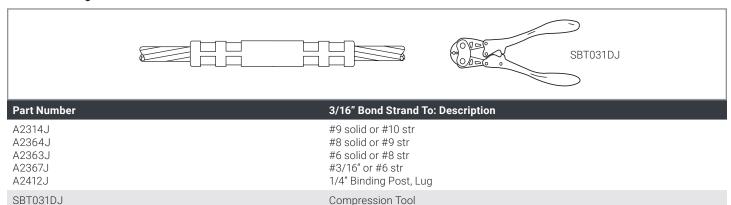
Substitute length for "X" (10", 12", or 14")

The nVent 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.

ASSOCIATED MATERIAL

SLEEVES - COMPRESSION TYPE

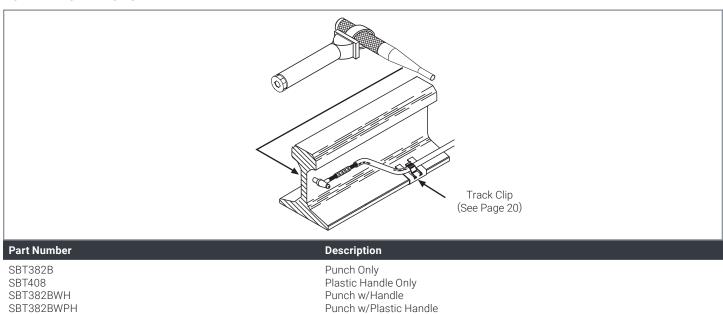
Standard Package 100



NO-OXIDE GREASE

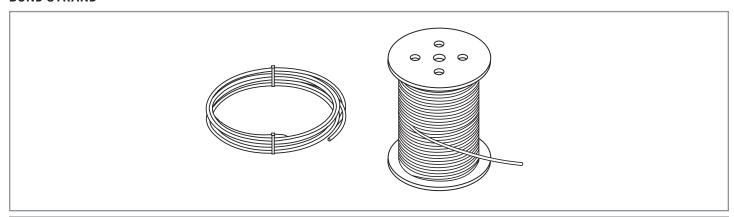
Part Number	Description
T369	1 ounce tube

BOND REMOVAL PUNCH



RELATED MATERIALS

BOND STRAND



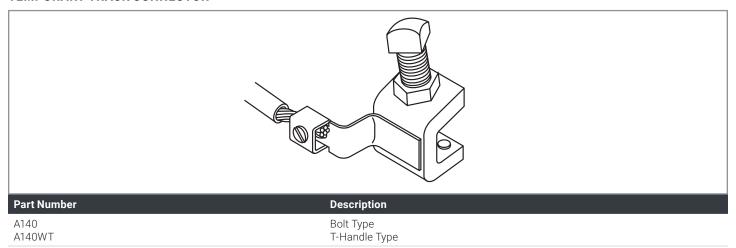
Part Number			Description
100' Coil	500' Reel	1000' Reel	
SBS8CINSUL	SBS8LINSUL	SBS8INSUL	S-8, 3/16", Black 4/64 PVC
SBS8CINORG	SBS8LINSORG	SBS8INORG	S-8, 3/16",
SBS8TCINS	SBS8TDINSUL	SBS8TINSUL	Orange 4/64 PVC S-8, 3/16" Tinned, Black 4/64 PVC
SBS8TCINS664	SBS8TLINS664	ODOGTINODO	S-8, 3/16" Tinned, 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
A806A12F100		A806A12F1000	S-8, 3/16" Tinned, Orange 6/64 PVC

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 F80	50
SB32	Rail Welding Material F80	50

TEMPORARY CONNECTORS

TEMPORARY TRACK CONNECTOR

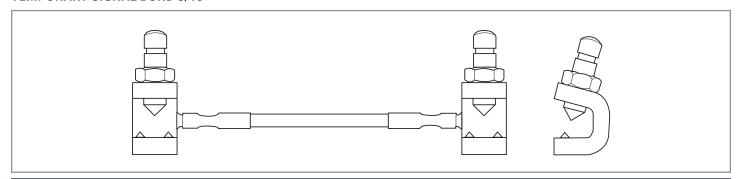


Standard Package 4

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"

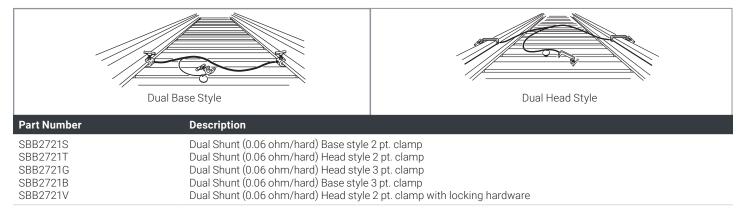


Part Number	Description
SBS3086S48	3/16" Orange Insul. 48" long
SBS3086S48WT	3/16" Orange Insul. w/T-handle 48" long
SBS3086R48	3/16" Black Insul. 48" long
SBS3086R48WT	3/16" Black Insul. w/T-handle 48" long

- 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.

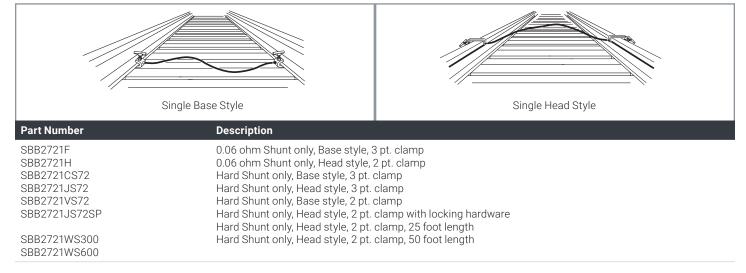
TRACK CIRCUIT SHUNTS

DUAL SHUNT



- · 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



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

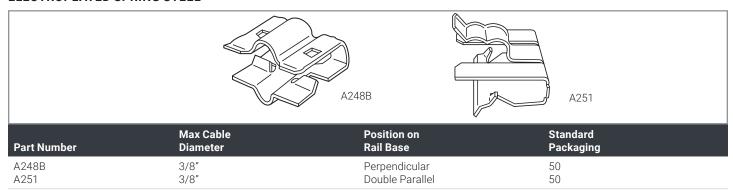
- 0.06 ohm style has no resistor to fail. Product is pre-engineered to provide permanent 0.06 ohm shunting.
- · Hardened contact points on clamps bite through rust and scale.
- Bright orange insulation on "Hard" shunt for high visibility and easy identification.

RETAINER CLIPS

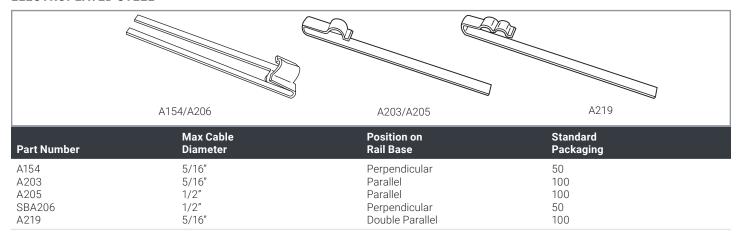
DESIGN FEATURES

- · 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 nVent now enables you to secure cables reducing maintenance and improving wayside safety.

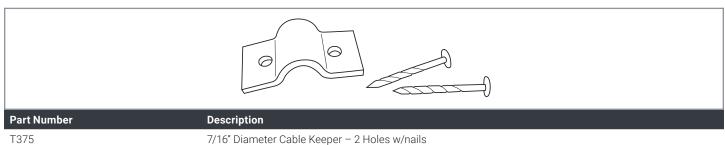
ELECTROPLATED SPRING STEEL



ELECTROPLATED STEEL

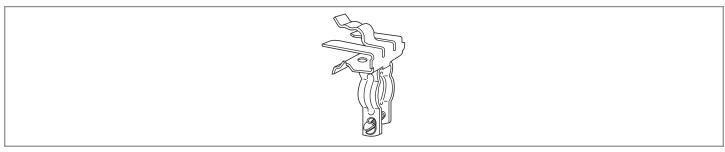


PVC CABLE KEEPER



RETRAINER CLIP ASSEMBLIES

BELOW RAIL BASE



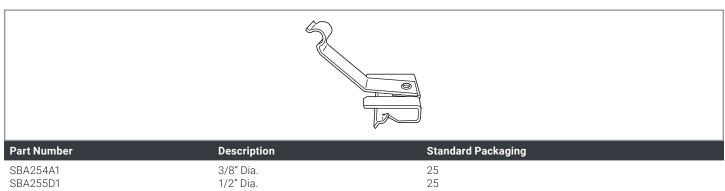
Part Number	Description	Standard Packaging
SBA2510B	3/4" Dia.	50
SBA2511B	1" Dia.	50
SBA2512B	1-1/4" Dia.	50

RAIL BASE



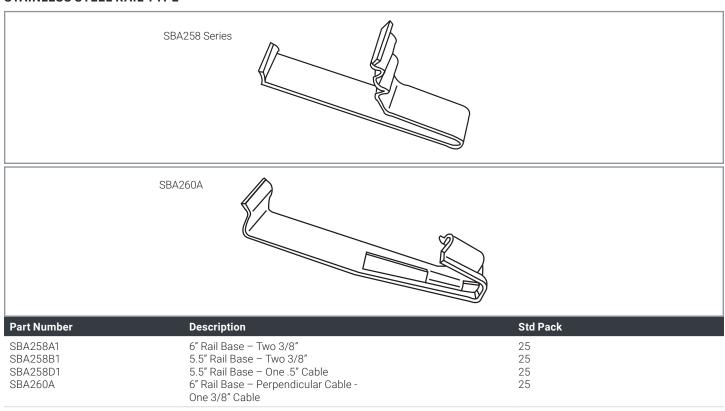
Part Number	Description	Standard Packaging
SBA252S0	3/4" Dia.	50
SBA252S1	1" Dia.	50
SBA252S2	1-1/4" Dia.	50

WEB

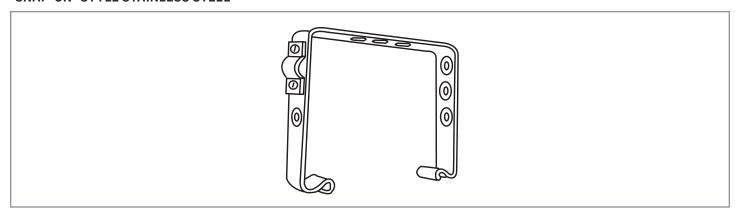


"SNAP-ON" STYLES

STAINLESS STEEL RAIL TYPE



CONCRETE TIE CLIPS "SNAP-ON" STYLE STAINLESS STEEL

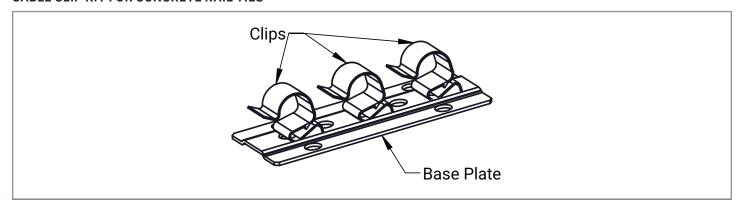


Flexible configurations

Contact nVent with Application Information & Concrete Tie Dimensions

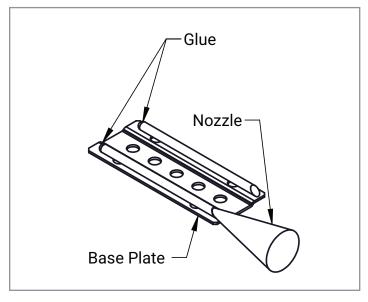
GLUED RAIL CLIPS

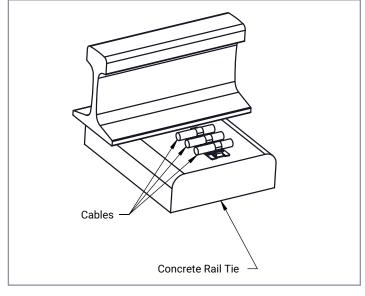
CABLE CLIP KIT FOR CONCRETE RAIL TIES



		Std Pack		Max. clips
Part Number	Description	Base	Clips	per base
GCHSC67	Cable Dia. 0.24-0.28 in	30	120	4
GCHSC78	Cable Dia. 0.28-0.31 in	30	120	4
GCHSC89	Cable Dia. 0.31-0.35 in	30	120	4
GCHSC910	Cable Dia. 0.35-0.39 in	30	120	4
GCHSC1011	Cable Dia. 0.39-0.43 in	30	120	4
GCHSC1214	Cable Dia. 0.47-0.55 in	30	120	4
GCHSC1518	Cable Dia. 0.59-0.71 in	30	90	3
GCHSC1924	Cable Dia. 0.75-0.94 in	30	90	3
GCHSC2530	Cable Dia. 0.98-1.19 in	30	60	2

- $\bullet \ \, \text{Each kit includes one container of adhesive. Additional containers available upon request with part no. GCGLUE.}$
- Glue container suitable for a 10 oz. dispensing gun.
- Usable for longitudinal or transversal cable applications.





Grinders & Bonding Accessories

RAIL GRINDERS

PEDESTAL RAIL GRINDER (GAS POWERED)

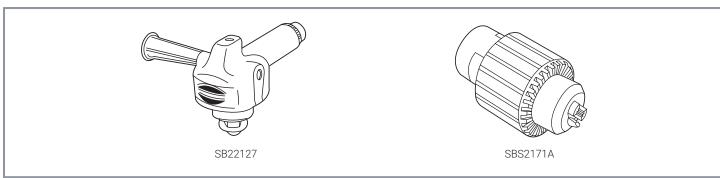


Part Number Description

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
SBT385B	3/8" Bonding bit / round shank
02.0002	5,6 25.1amg 5.0, 15am 6.1am

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)
SBG20046	Cleaning and Cutting Wheel, Depressed center, designed for right angle use (std. package of 5)

Grinders & Drilling Machines

RAIL DRILLING MACHINES

PORTABLE DRILLING MACHINE (2 CYCLE GASOLINE POWERED)



Part Number Description

715685 Rail Drilling Machine SBV-VS, 28 lbs for drill hole dia. 3/8" up to 1-3/8", 267 rpm

PORTABLE DRILLING MACHINE (QUIET 4 CYCLE GASOLINE POWERED)



Part Number Description

715412 Rail Drilling Machine SBV-V4, 28 lbs for drill hole dia. 3/8" up to 7/8", 267 rpm

Grinders & Drilling Machines

RAIL DRILLING MACHINES

PORTABLE DRILLING MACHINE (BATTERY POWERED)



Part Number

715400 Rail Drilling Machine SBM-E391, 28 lbs, 48V for drill hole dia. 3/8" up to 7/8", 390 rpm

PORTABLE DRILLING MACHINE (AC ELECTRIC POWERED)



715404 Rail Drilling Machine SBM-E230, 28 lbs for drill hole dia. 3/8" up to 1-3/8", 280 rpm, requires 220/230V AC

Grinders & Drilling Machines

RAIL DRILLING MACHINES

CLAMPING DEVICES



Part Number	Description
715360	BSK1 head clamping for normal rails, 7 lbs.
715370	BSK2 head clamping for grovved rails, 9 lbs.
715380	BSF1 rail foot clamping device, 9 lbs.

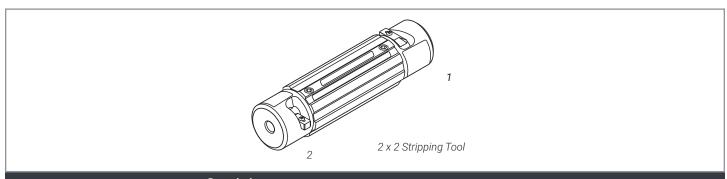
RAIL DRILLING ACCESSORIES



Description
Rail Drilling Template 90 LB, 2.58 in.
Rail Drilling Template 100 LB, 2.63 in.
Rail Drilling Template 115 LB, 2.98 in.
Rail Drilling Template 132 RE, 3.20 in.
Rail Drilling Template 136 LB, 3.36 in.
Rail Drilling Template 141 AB, 3.47 in.
Other Drilling Templates available on request
Drilling Coolant Concentrate, 2.64 gal. (10 ltr.) Coolant Tank & Pump

Tools & Bonding Accessories

STRIPPING TOOLS 2 X 2



	Description	
Part Number	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

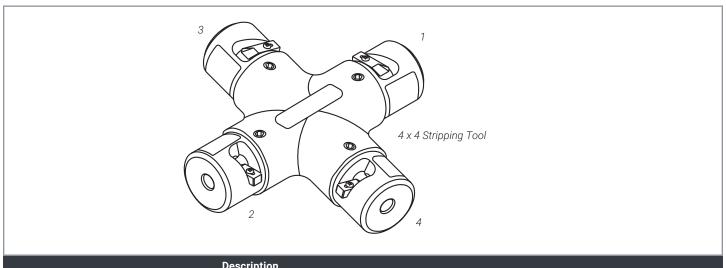
Part Number	Description
SBRTCB6667	Replacement Blades-Pkg of 5

ACCESSORY

Part Number	Description
SBRT36024	2 x 2 Tool Driver Adapter

Tools & Bonding Accessories

STRIPPING TOOLS 4 X 4



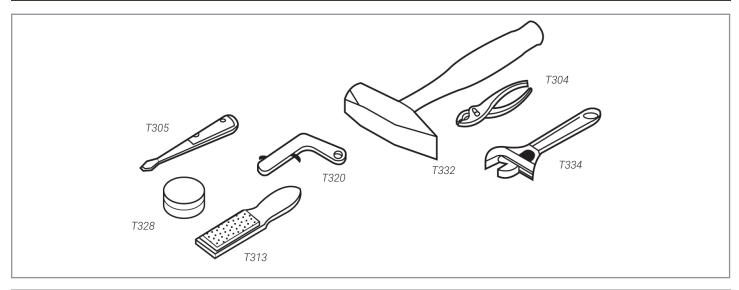
	Description	
Part Number	Bushing 1	Bushing 2
SBRT36000906	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 11/64" Insulation
SBRT36000907	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 11/64" Insulation
SBRT360001004	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 11/64" Insulation
SBRT360001010	3/16" Bond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

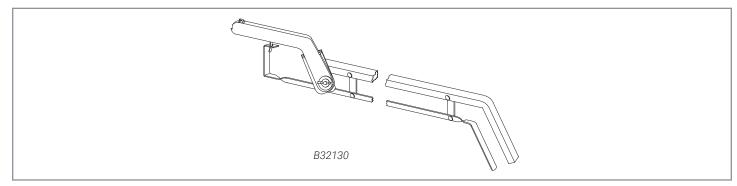
Tools & Bonding Accessories

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



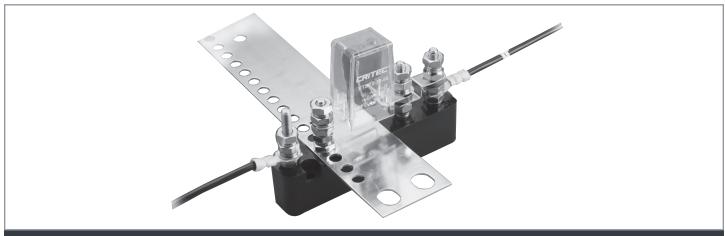
Total Facility Protection

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



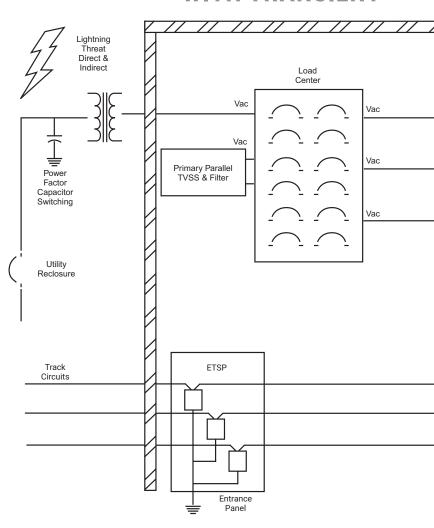
Part Number	Description	
SBB2700A2B10	Terminal Block - Box of 10	
B2700A2C1WH	Terminal Block with AAR Hardware	
B2700HC36T	Terminal Strip - 36"	
B2700HC48T	Terminal Strip - 48"	
B2700HC60T	Terminal Strip - 60"	

Contact nVent For Design Assistance

Solutions to Power Quality Problems

TYPICAL SIGNAL BUNGALOW POWER PROTECTION LAYOUT

WITH TRANSIENT

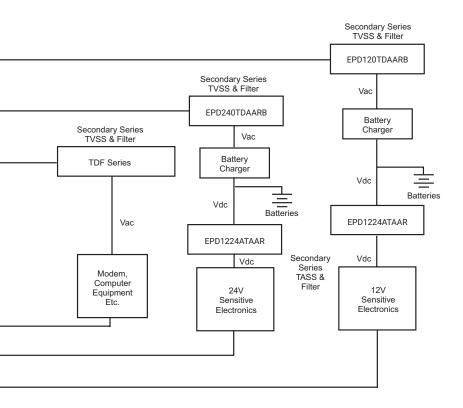


Part Number	Description	
EPD120/240TDFL	120/240VAC primary surge protector, TD Technology, flying lead, 85kA	
EPD100HZ120V	120VAC, 100HZ primary surge protector, fused, TD Technology, 120kA	
EPD100HZ120240V	120/240VAC, 100HZ, primary surge protector, fused, TD Technology, 120kA	
EPD100HZ240V	240VAC,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

Solutions to Power Quality Problems

USING PROTECTION DEVICES FROM NVENT 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

EPD POWER SURGE DEVICES

- Transient Discriminating Technology provides increased service life
- 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 provides increased service life
- 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 nVent for additional information on our full line of nVent ERICO surge protection devices.

Primary Surge Protection

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

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

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
557850	Din Rail, 2 meters in length, 7.5 mm height

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 8/20µs

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	
UTB5SP	0-7V ^{DC} pk, 20kA, 2A Load Current	
UTB15SP	5-18V ^{DC} pk, 20kA, 2A Load Current	
UTB30SP	15-33V ^{DC} pk, 20kA, 2A Load Current	
UTB60SP	30-64V ^{DC} pk, 20kA, 2A Load Current	
UTB110SP	170V ^{DC} , 20kA, 2A Load Current	
UTBTA	UTB, Secondary Telephone Protector	
557850	Din Rail, 2 meters in length, 7.5 mm height	

RAIL TRANSIENT BARRIERS (RTB)

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

Part Number	Description
RTB12S3	12VDC, 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 CSPNMF600 CSP1BN90 CSPBNC600 CSPNB90	N-Type M to F, 72-108V N-Type M to F, 480-720V BNC-Type M to F, 72-108V BNC-Type M to F, 480-720V 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:

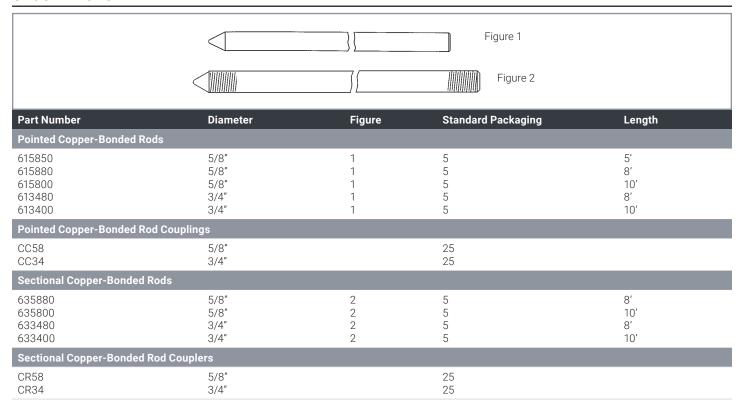
Vpeak = VSWR x 1.4 x Sqrt(50 x Transmit Power)

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

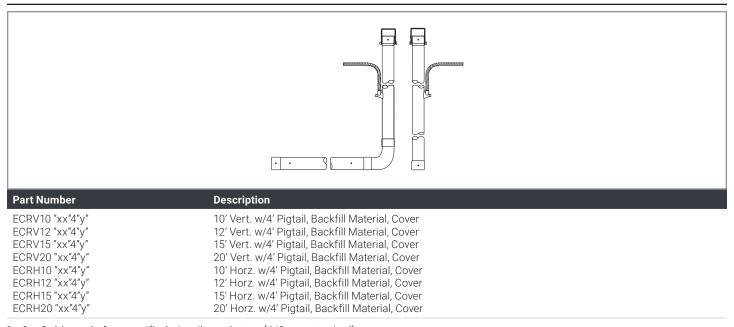
If Vpeak <72V use CSPxxx90

If Vpeak >72V & <480V use CSPxxx600

GROUND RODS



CHEMICAL GROUND ROD ELECTRODE KIT



[&]quot;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.

CADWELD ONE SHOT

CONNECTIONS

The Cadweld One Shot consists of a ceramic mold, disk, F80 welding material and cover.

4, 6

2,3

4, 6

2,3

8

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

3, 4

1, 2

6,8

3,4

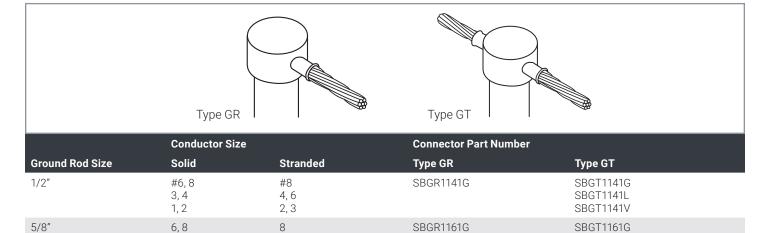
1, 2

• Fits both plain or threaded copperclad and full size, steel and stainless steel rods.

Standard Package 6

3/4"

CABLE-TO-GROUND ROD



SBGR1161L

SBGR1161V

SBGR1181G

SBGR1181L

SBGR1181V

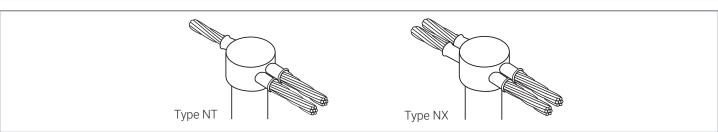
SBGT1161L

SBGT1161V

SBGT1181G

SBGT1181L

SBGT1181V



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

Other sizes available - Contact nVent with application.

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

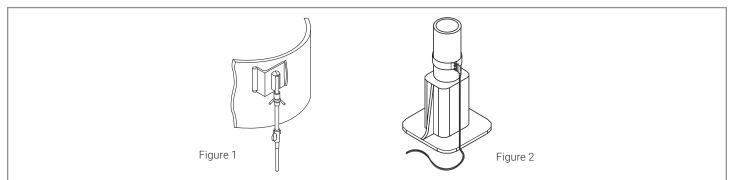
EARTH SYSTEMS TESTER UNITS



Part Number	Description
EST3640	Fall-of-Potential, ground resistance (2 & 3 Point) measurements
EST4620	4-Point Fall-of-Potential, 2 & 3-Point Fall-of-Potential Step Voltage measurements
EST4630	4-Point Fall-of-Potential, 2 & 3-Point Fall-of-Potential, Step Voltage measurements
EST6472	4-Point Fall-of-Potential, 3-Point Fall-of-Potential, 3-Point Fall-of-Potential, 3-Point earth coupling measurements & frequency scan 40 to 513Hz noise

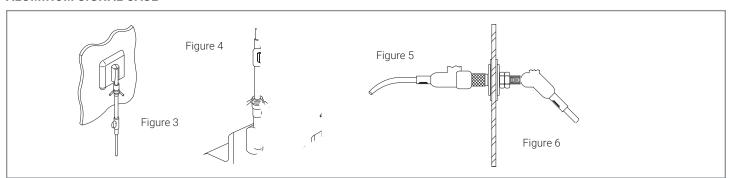
ALUMINUM-COPPER GROUNDING STUD

ALUMINUM SIGNAL MAST



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

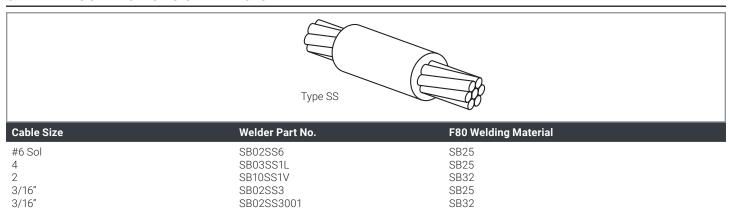
ALUMINUM SIGNAL CASE

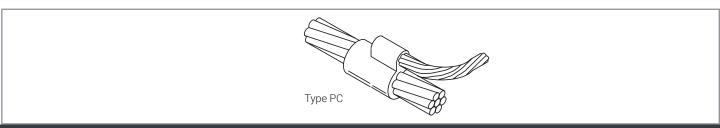


Part Number	Description	Figure Number	
	Aluminum-Copper Grounding Stud		
SBB855C1G36 SBB855C1G48 SBB855C1K48 SBB855F1G48 SBB855G1G30	with 36" long Pigtail, #6 Solid with 48" long Pigtail, #6 Solid with 48" long Pigtail, #4 Solid with 36" long Pigtail, #6 Solid with 30" long Pigtail, #6 Solid	3 3 3 4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

Other Pigtail sizes available.

CADWELD CONNECTIONS CABLE-TO-CABLE





Cable Size		Welder Part No.	F80 Welding Material	
Run	Тар			
#6 Sol	#6 Sol	SB10PC66	SB32	
#6 Sol	#6 Sol	SB02SC66001	SB25	
#6 Sol	5/16"	SB02SC65001	SB32	
3/16"	#6 Sol	SB02SC36001	SB25	
3/16"	3/16"	SB02SC33001	SB25	

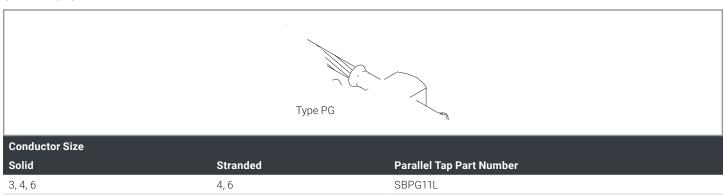
CADWELD ONE SHOT CONNECTIONS

The Cadweld One Shot consists of a ceramic mold, disk, F80 welding material and cover.

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- Produces a permanent connection that will not loosen or corrode.

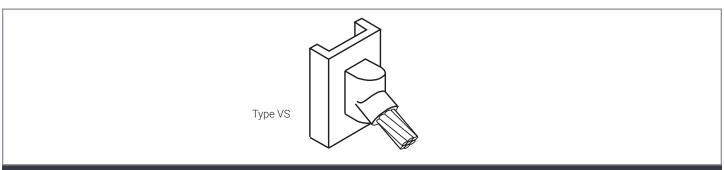
Standard Package 6

CABLE-TO-CABLE



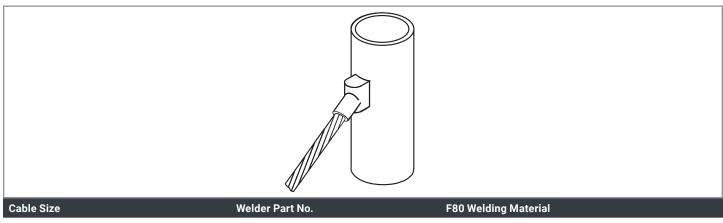
CABLE-TO-STEEL STRUCTURES

FLAT VERTICAL SURFACE



Cable Size	Welder Part No.	F80 Welding Material
Sol 4	SB01VS4	SB25
Sol 6	SB01VS6	SB25
Sol 6	SB01VS6001	SB32
Sol 8	SB01VS8	SB25
3/16"	SB01VS3	SB25

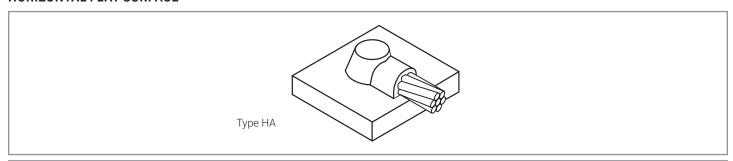
ROUND VERTICAL SURFACE



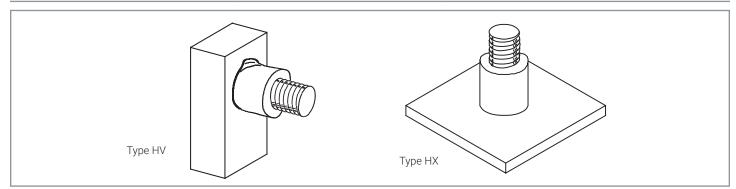
Cable Size	Welder Part No.	F80 Welding Material
Sol 6	SB01VS6V5C	SB25
Sol 6	SB01VS6V5C01	SB32

CADWELD CONNECTIONS CABLE-TO-STEEL STRUCTURES

HORIZONTAL FLAT SURFACE



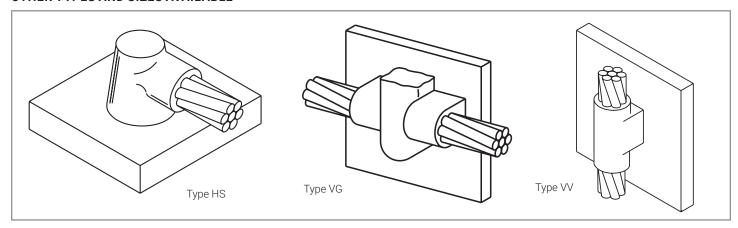
Cable Size	Welder Part No.	F80 Welding Material
Sol 6	SB41HA6	SB32
Sol 6	SB41HA6001	SB25



Cable Size	Welder Part No.	F80 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)

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R503B Rail Products Brochure

X7A Facility Electrical Protection Solutions

GROUNDING

E1A Cadweld - Welded Electrical Connections

RT7F **GEM - Ground Enhancement Material**

LIGHTNING PROTECTION

E256C nVent ERICO SYSTEM 2000 -

Passive Protection

E429B nVent ERICO SYSTEM 3000 -

Active Protection

R196S Terminal Block

Lightning Protection for Railway RT7J

Electrical Equipment

SURGE PROTECTION

E430C Catalog

R199S **EPD Primary Surge**

Protection Device

Electronic Track R558S

Circuit Protection

R601S EPD 120V & 240V Secondary AC

Surge Protection

EPD 12/24VDC 30A Secondary DC R604S

Surge Protection

Product Literature

TOOLS

R337S	SBG150 Portable Grinder	SBG150 Portable Grinder			
R408C	nVent 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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