

Rail Electrical Products



A GLOBAL SOLUTIONS PARTNER FOR THE RAILWAY INDUSTRY

nVent is the worldwide leader in connecting cables to rails for signaling, grounding and traction power requirements. From signal circuits, to traction power leads, to grounding, the nVent ERICO brand offers the widest range of products and solutions to meet the demanding requirements of the global railway industry.

We recognize the importance of the evolving railway industry.

Our active involvement ensures we will continue to design, develop and enhance our product offerings to meet the changing needs of the railway industry. All nVent ERICO brand products and solutions are manufactured in accordance with ISO 9000 series accreditation and are backed by superior technical support and product warranties.

Our international growth is a result of being more than just a product manufacturer. Today nVent offers the global rail industry a diversified corporation with a network of sales locations serving more than 25 countries, and with manufacturing and distribution facilities worldwide. nVent is acknowledged as the premier electrical connection provider in the railway industry due to our extensive experience, strong relationships with end users and continued investment in research and development. nVent provides unrivalled service, innovative solutions and local expertise to the rail industry.

Table of Contents

Typical Applications	5
Signal Bonding	5
Joint Head Bond	5
Fouling Circuit	5
Web Bonding	5
Track Clip Overview	6
Track Retainer Clip	6
Rail Clip and Concrete Tie Clip (Contact nVent)	6
Clip, Bootleg, Track Connector	6
Concrete Tie Clips	7
Concrete Tie Clip Bootleg Riser 4-Wire Kit	7
Concrete Tie Clip Applications	7
Cadweld Bonding Products	8
Control Unit	8
nVent ERICO Cadweld Plus Ignition Control Unit	8
Signal Head Bonds	9
Joint Head Bonds – Available in Cadweld Traditional (blue tube) and Cadweld Plus	9
Bonds	10
Single Track Connectors – Web	10
Jumper, Switch and Bootleg Bonds	12
Welders and Molds	13
Rail Head Welders And Molds	13
Rail Head Welders and Molds Continued	14
Replacement Mold Covers for T-6 and T-7 Welders	14
Replacement Mold Covers for T21 and TB5 Welders	14
Frog and Special Track Work	15
Tab-Style Terminals	15
Web (Field Made and Factory Made)	16
Extension Clamps on Rail Head and Rail Web	16
Cadweld Transit Bonds	17
C Bonds	17
Head Bond Welders and Molds	17
Rail Kits	17
Replacement Molds and Accessories	17
Web Bonds	18
Web Bond Welders and Molds	18
Rail Kits	18
Replacement Molds and Weld Material	18
Stub End Bonds – Web	19
Splice Connections	20
Straight Splice	20
Contact Rail Splice XE1457	21
Joint/Cross Bonds	22
Joint/Cross, Stub End Bonds	23
How to order	23
QV Connections	24
Lug to Rail	24
Connection Kit: Inverted 150# Rail	25
LS Connections	26
Connection Kit: Lug Dual Head Third Rail	26
Connection Kit Lug Dual Head Third Rail (84C and 85C Rail)	27
Crown Sockets	29
Cable to Crown GF Connections	29
Cable to Crown Assemblies	30
Lock Pin Assembly	31
Impedance Bond Side Lead	32
Double Hole Lug, Variable Length	32
Single Hole Lug, Variable Length	34

Table of Contents

Impedance Side Lead	35
Double Hole Lug, Even Length	35
Web Bond	36
Web Bond.....	37
Impedance Bond Center Lead	39
XE1558C_0	39
Girder Rail	41
Stub End Bond.....	41
Clamps	42
Notes	42
Mechanical Connections	43
nVent ERICO Ericontact	43
Single Rail Contact SK	43
Components	43
SK Series Rail Contacts.....	44
Double Rail Contact DSK	44
Components	44
DSK Series Rail Contacts	45
Rail Contacts 19 mm	45
Features and Benefits	45
Bonds	46
Plug Bonds.....	46
XX = Lengths 24, 30, 34, 36, 42, 48, 60, 72, and 96.....	46
Track Connectors “Chicken Heads”	47
Multi-Purpose Bonds	47
Associated Material	48
Sleeves – Compression Type.....	48
No-Oxide Grease	48
Bond Removal Punch	48
Related Materials	49
Bond Strand	49
Theft Deterrent Cables	49
Miscellaneous Bonding Items	49
Temporary Connectors	50
Temporary Track Connector.....	50
Standard Package 4.....	50
Temporary Signal Bond 3/16”	50
Track Circuit Shunts	51
Dual Shunt.....	51
Single Shunt.....	51
Cable Clips	52
Retainer Clips	52
Design Features	52
Electroplated Spring Steel.....	52
Electroplated Steel	52
PVC Cable Keeper.....	52
Retainer Clip Assemblies	53
Below Rail Base.....	53
Rail Base.....	53
Web	53
“Snap-on” Styles	54
Stainless Steel Rail Type	54
Concrete Tie Clips “Snap-On” Style Stainless Steel.....	54
Glued Rail Clips	55
Cable Clip Kit for Concrete Rail Ties	55
Grinders & Bonding Accessories	56
Rail Grinders	56
Pedestal Rail Grinder (Gas Powered)	56
SBG141 Drill Attachment Parts	56

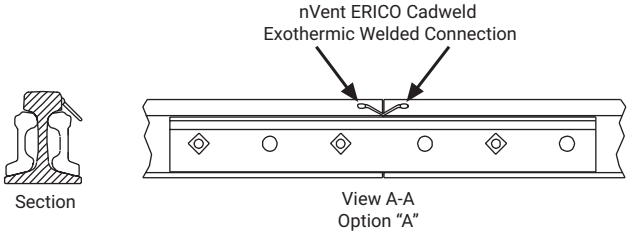
Table of Contents

Portable Grinder (2 cycle gasoline powered)	57
Grinding Wheels	58
Grinders & Drilling Machines	59
Rail Drilling Machines	59
Portable Drilling Machine (quiet 4 cycle gasoline powered)	59
Clamping Devices	60
Rail Drilling Accessories	60
Tools & Bonding Accessories	61
Stripping Tools 2 x 2	61
Blades	61
Accessory	61
Tools & Bonding Accessories	62
Stripping Tools 4 x 4	62
Replacement & Additional Bushings	62
Miscellaneous Tools	63
Flint Ignitor Extension	63
Railway Electrical Protection	64
Typical Signal Bungalow Power Protection Layout	64
Using Protection Devices from nVent for Total Facility Protection ...	64
Products For High Frequency, Low Impedance, Path to Ground	66
4 Terminal Block	66
Primary Surge Protection	67
EPD Power protection Surge Devices	67
EPD Track Circuit Protection Devices	68
Secondary Surge Protection	69
EPD Power Protection Surge Devices	69
Peripheral Power Protection	70
Dinline Surge Filters	70
Transient Surge Filter (TSF)	70
Communications & Data Equipment Protection	71
Control Signal Equipment Protection	71
Rail Transient Barrier Next Generation	71
Grounding	72
Ground Rods	72
Cadweld One Shot	73
Connections	73
Type GR Traditional and GR Plus	73
Type GT Traditional and GT Plus	73
Connections: Cable-To-Ground Rod	74
Type NT Traditional and NT Plus	74
Type NX Traditional and NX Plus	74
Connections: Cable-to-Cable	74
Type PG Traditional and PG Plus	74
Ground Enhancement Material	75
Aluminum-Copper Grounding Stud	76
Aluminum Signal Mast	76
Aluminum Signal Case	76
Cadweld Connections Cable-to-Cable	77
Cable-to-Steel Structures	78
Flat Vertical Surface	78
Round Vertical Surface	78
Cadweld Connections Cable-to-Steel Structures	79
Horizontal Flat Surface	79
Other Types and Sizes Available	79
Hammerlock	80
nVent ERICO Lay-In Hammerlock Ground Clamp	80
nVent ERICO Hammerlock Ground Clamp	81
Notes	83

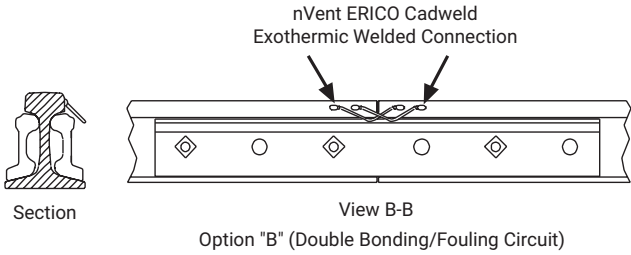
Typical Applications

SIGNAL BONDING

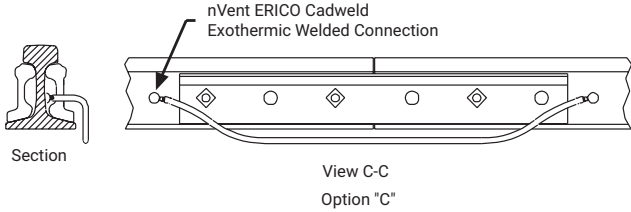
Joint Head Bond



Fouling Circuit



Web Bonding



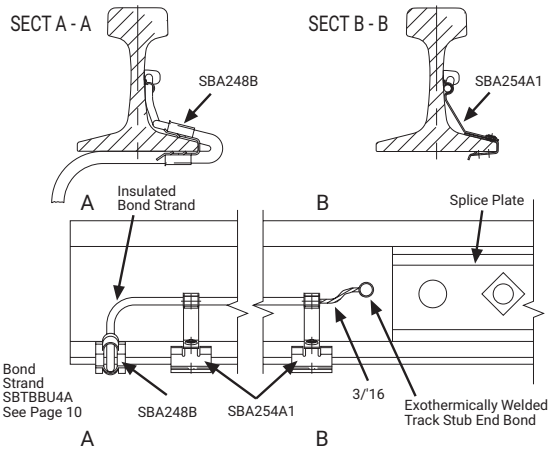
Typical Applications

TRACK CLIP OVERVIEW

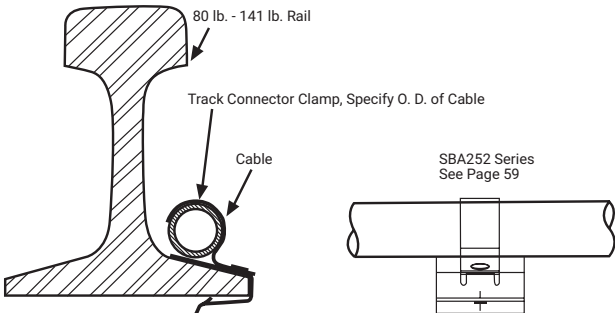
Track Retainer Clip



Rail Clip and Concrete Tie Clip (Contact nVent)



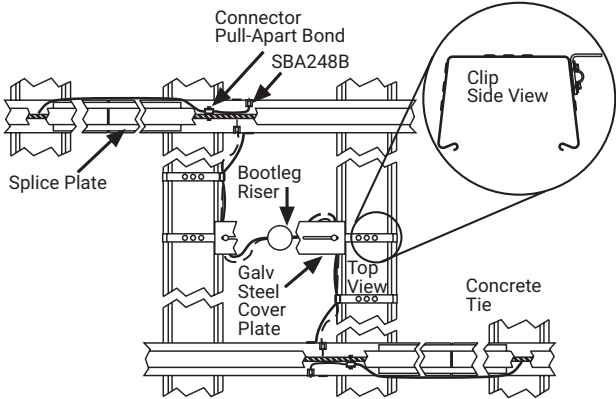
Clip, Bootleg, Track Connector



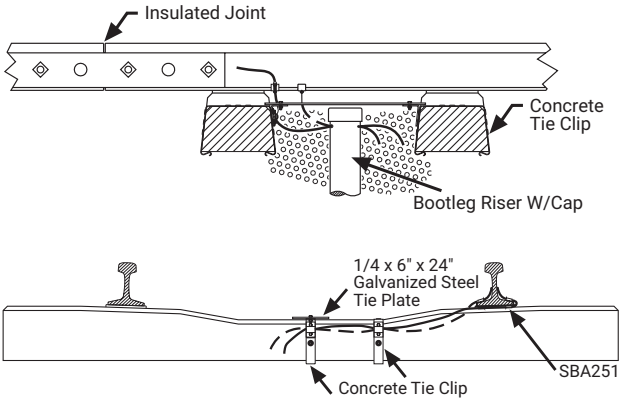
Typical Applications

CONCRETE TIE CLIPS

Concrete Tie Clip Bootleg Riser 4-Wire Kit



Concrete Tie Clip Applications



Cadweld Bonding Products

CONTROL UNIT

nVent ERICO Cadweld Plus Ignition Control Unit

Order in multiples of 60 – Includes one pair of replacement molds, necessary welding material, cleaning tool, 5 each combo cleaning/ cutting wheels, 5 each 4.5" combo cleaning/cutting wheels.

Cadweld Impulse Unit PBPLUSCU2L6



The PBPLUSCU2L6 battery powered ignition system must be ordered separately.

Includes one pair of replacement molds, necessary welding material, cleaning tool, 5 each combo cleaning/ cutting wheels, 5 each 4.5" combo cleaning/ cutting wheels.

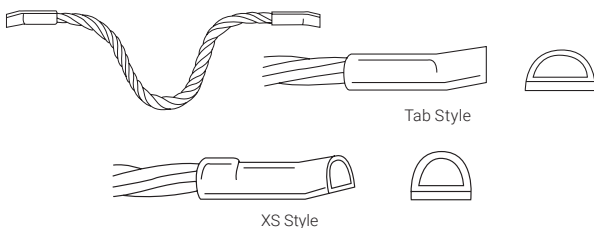
- Enhanced power tool style grip is ergonomic and easy to hold
- Self-closing trigger guard prevents accidental ignition, providing added safety
- LED ignition counter provides instant feedback on the timing of the ignition and is visible in sunny outdoor conditions
- Five second delay in ignition is a safety feature to allow the user to stop ignition, if necessary
- Battery life indicator integrated into the unit for real-time updates on battery life; compatible with both AA and rechargeable batteries
- Includes AA lithium batteries to power approximately 1200 connections
- Rechargeable batteries from Milwaukee or DEWALT can be used to power approximately 1500 connections using a 4 Ah battery
- Battery adapters available for use with either Milwaukee or DEWALT rechargeable batteries (sold separately)
- High temperature lead with single molded insert into the unit keeps the most-often replaced component of ignition systems more securely attached and reliable
- Easy-to-use alligator clip design of the termination clearly shows a positive connection in the viewing window
- Meets AREMA C&S Manual Recommendations; Part 8.1.34, 2013

Cadweld Bonding Products

SIGNAL HEAD BONDS

JOINT HEAD BONDS – Available in Cadweld Traditional (blue tube) and Cadweld Plus.

Order in multiples of 100



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	-	-	-

To convert Rail Kits to ERICO Cadweld Plus with weld metal and grinding wheels - Add the suffix CWPW2 to the part number in above table. For ordering grinding wheel only, see page 58.

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

The nVent ERICO 4.5" Combo Cleaning and Cutting Wheel is available in a quantity of five with the following head bond part numbers & provided in the bond kit.

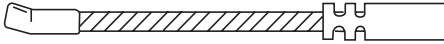
SBS24882W2, SBS24883W2, SBS24884W2, SB20108W2, SB20128W2, SB20116W2, SB20175W2, SB20118W2

Cadweld Bonding Products

BONDS

Single Track Connectors – Web

Order in multiples of 100 – Includes one pair of replacement molds, flint ignitor and necessary welding material and cleaning tool.



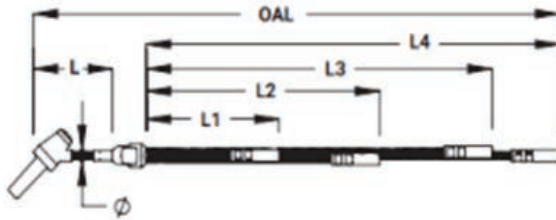
Tab Style

Part Number	Cadweld	Description
SBTBBU4A	Traditional	3/16" Dia. x 1" Tab x 4" Long Bootleg
SBTBBU9ACWPW2	Cadweld Plus	3/16" Dia x 1" Tab x 9" Long Bootleg
SBTBCU412	Traditional	3/16" Dia. x 1" Tab x 12" Long Bootleg

To convert Rail Kits to Cadweld Plus with weld metal and grinding wheels – Add CWPW2 suffix to the part number in above table. For ordering grinding wheel only, see page 58

For complete Welder (SBTBT21C) see page 16 and compression tool (SBT031DJ) see page 48.

The Cadweld track connector from nVent 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)



The Rail Track Connector Bond, Multi-Leg is designed for rail wayside signaling applications. This solution is designed to allow multiple connections to rail in highly congested areas of track while safely maintaining rail integrity. Connections to the rail can be made via nVent ERICO Cadweld exothermic connection or nVent ERICO plug bond connection.

Cadweld Bonding Products

Material: Copper Magnesium
Finish: Tinned

Catalog Number	Bond Terminal Style	Length L	Length 1 L1	Length 2 L2	Length 3 L3	Length 4 L4	Overall Length Imperial
SBSCR3S2CR8B	Crimp	3"	2.5"	4"	-	-	8"
SBSP3S4CR24B	Plug	3"	4"	8"	16"	20"	24"
SBSTB3S2CR7B	Tab	2"	2.5"	4"	-	-	7"
SBSTB3E2CR7B	Tab	2"	4.5"	4.5"	-	-	7.5"

*Conductor and Connector Size 3/16" Bondstrand

The Cadweld Rail Track Connector Bond Kit, Multi-Leg, has all the necessary components to establish a welded bond connection to the web of the rail for rail signaling applications, such as wayside signs.

Material: Copper Magnesium
Finish: Tinned

Catalog Number	Bond Terminal Style	Conductor and Connector Size	Length L	Length 1 L1	Length 2 L2	Overall Length Imperial
SBSTB3S2CR7	Tab	3/16" Bondstrand	2"	2.5"	4"	7"
SBSTB3E2CR7				4.5"	4.5"	7.5"

*Handle Clamp C105B x 2, Sold Separately

The nVent ERICO Cadweld Plus Rail Track Connector Bond Kit, Multi-leg, is intended to be welded to the web of the rail at the neutral axis. The kit has all the necessary components to establish a welded bond connection to the web of the rail.

Material: Copper Magnesium
Finish: Tinned

Catalog Number	Bond Terminal Style	Conductor Size	Length L	Length 1 L1	Length 2 L2	Overall Length Imperial
SBSTB3S2CR7CWP	Tab	3/16" Bondstrand	2"	2.5"	4"	7"
SBSTB3E2CR7CWP				4.5"	4.5"	7.5"

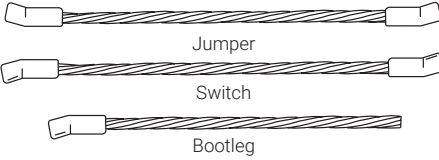
*Handle Clamp C105B x 2, Sold Separately

Cadweld Bonding Products

BONDS

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 (Cadweld Traditional) and PLUSF80 (Cadweld Plus) formulation welding material.



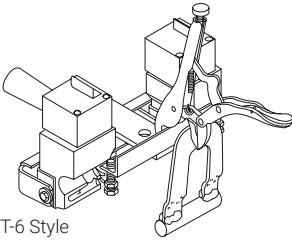
Diameter	Jumper	Switch	Bootleg
3/16" Dia.			
3/4" XS Style	SBXSJ33"X"	SBXSS33"X"	SBXSB33"X"
3/4" Tab	SBTBJ33"X"	SBTBS33"X"	SBTBB33"X"
1" Tab	SBTBJ34"X"	SBTBS34"X"	SBTBB34"X"
1-1/2" Tab	SBTBJ36"X"	SBTBS36"X"	SBTBB36"X"
5/16" Dia.			
1" Tab	SBTBJ54"X"	SBTBS54"X"	SBTBB54"X"

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

Cadweld Bonding Products

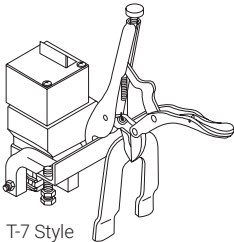
WELDERS AND MOLDS

Rail Head Welders And Molds



T-6 Style

With Molds Bond	T-6 Style One-Piece Rail Welder Complete			
	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	SBS5838	–	–
1" Tab	SBTBT7G	SBS5839	SBTBT7B	SBS898
Head Free	SBHFT7E	SBS925	SBHFT7K	SBB492

All welders and molds are compatible with Traditional Blue Tube & CADWELD PLUS welding material.

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.

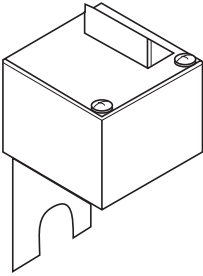
Cadweld Bonding Products

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	SBM456	SBM456F	S2659
Tab Style	SBS5838	SBS5838F	S2659
Head Free Style	SBS925	SBS925F	S2044
5/16" Dia.			
Tab Style	SBS898	SBS898F	S119
Head Free	SBB492	SBB492F	B194D

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



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

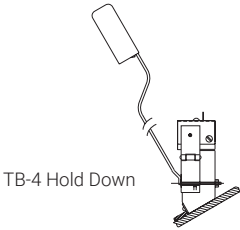
Replacement Mold Covers for T21 and TB5 Welders

Part Number	Description
B30174	Single Replacement Cover Only
B2516C1	Single Replacement Cover Only Hardware
B2516C	Single Replacement Cover Only with Hardware

Cadweld Bonding Products

WELDERS AND MOLDS

Frog and Special Track Work



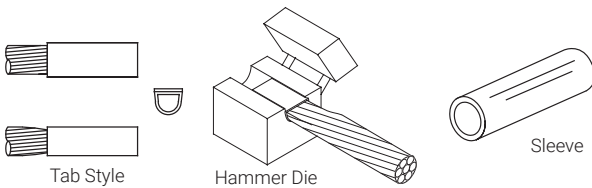
TB-4 Hold Down

Terminal Style	TB-4 Welder		Replacement Mold
	Hold Down	Frame Only	
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



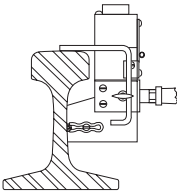
Cable Size	Terminal Length	Sleeves		Hammer Dies		Weld Material (F80)	
		Part Number	Std. Pkg.	Part Number	Cadweld Traditional	Cadweld Plus	
#6 Sol	1"	SBS10	100	N/A	SB25	SB25PLUSF80	
3/16"	3/4"	SBS11C	100	SBD50	SB25	SB25PLUSF80	
3/16"	1"	SBS12C	100	SBD50	SB25	SB25PLUSF80	
3/16"	1-1/2"	SBS13C	100	SBD50	SB25	SB25PLUSF80	
5/16"	1"	SBS09C	100	SBD51	SB32	SB25PLUSF80	

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 49.

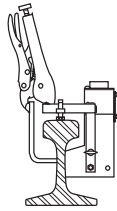
Cadweld Bonding Products

WELDERS AND MOLDS

Web (Field Made and Factory Made)



TB-5 Hand Held



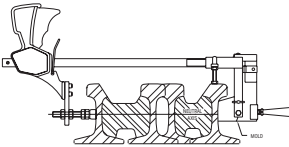
T-21 Clamping

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

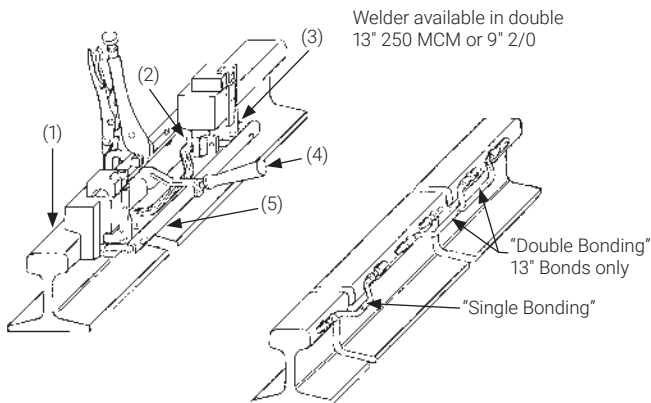
Part No.	Description	Mold
SBC105S	Head Ext. Clamp	See T-7 Style Molds
SBC105SA	Head Ext. Clamp w/ Mold Cover	See T-7 Style Molds
SBC105R	Web Ext. Clamp	See TB-5 / T-21 Style Molds

- 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.

Cadweld Transit Bonds

C BONDS

Head Bond Welders and Molds



Rail Kits

Size AWG/KCM	Bond Clips Only (2) (1 Pair) Part #	Cadweld Traditional Weld Material*	Cadweld Plus Weld Material*	Welder Complete
2/0 - 9"	PBC12J9	PB65	PB65PLUSF80	PBCT812J9
2/0 - 13"	PBC12J13	PB65	PB65PLUSF80	PBCT812J13
4/0 - 9"	PBC12S9	PB90	PB90PLUSF80	PBCT82S9
4/0 - 13"	PBC12S13	PB90	PB90PLUSF80	PBCT82S13
250 - 13"	PBC12W13	PB90	PB90PLUSF80	PBCT82W13

* To convert Rail Kits to Cadweld Plus weld metal – Add CWP suffix to the part number in above table.

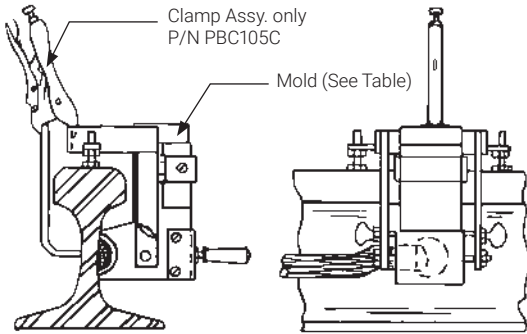
Replacement Molds and Accessories

Size AWG/KCM	(1) Molds Only (1 Pair) Part #	(2) Bond Clips Only (1 Pair) Part Number	(3) Mold Suspension Assembly (1 pair) Part Number	(4) Clamp Assembly	(5) Extension Bar
2/0 - 9"	PBC2JM	B194A	PBC2JF	M103E	S10212/ S1029
2/0 - 13"	PBC2JM	B194A	PBC2JF	M103E	S10212/ S1029
4/0 - 9"	PBC2SM	B194B	PBC2SF	M103E	S1025/ S1029
4/0 - 13"	PBC2SM	B194B	PBC2SF	M103E	S1025/ S1029
250 - 13"	PBC2WM	B194C	PBC2WF	M103E	S1029

Cadweld Transit Bonds

WEB BONDS

Web Bond Welders and Molds



Welder & Bond Positioned on Rail RH
(Right Hand) Welder Shown

Rail Kits

Cable KCM Type	Bond Part No. Joint/Cross	(1) Welder (Pair)
250 ROPELAY	PBW12W"X"	PBWT202W
500 ROPELAY	PBW12W"X"	PBWT203S

Replacement Molds and Weld Material

Cable KCM Type	Cadweld Traditional Weld Mat'l	Cadweld Plus Weld Mat'l*	Mold Pair
250 ROPELAY	PB115	PB115PLUSF80	PBW2W
500 ROPELAY	PB250	PB250PLUSF80	PBW3S

Bond Length "X" = Length of Cable in Even Inches

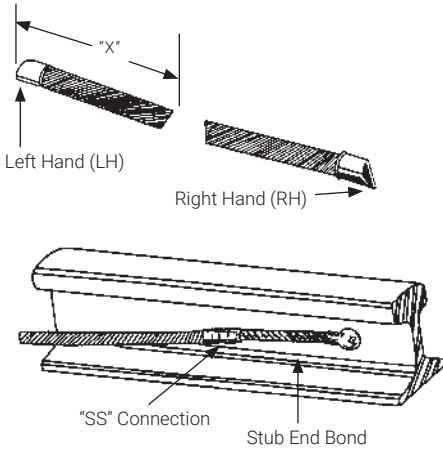
Joint Bonds – Bond Length "X" Must Be 12" or Longer Than Rail Angle Bar

Cross Bonds – Bond Length "X" Must Be 14" or Longer Than Track Gauge

Stub End Bonds – Standard Length = 9". Custom Lengths Available

Cadweld Transit Bonds

STUB END BONDS – WEB



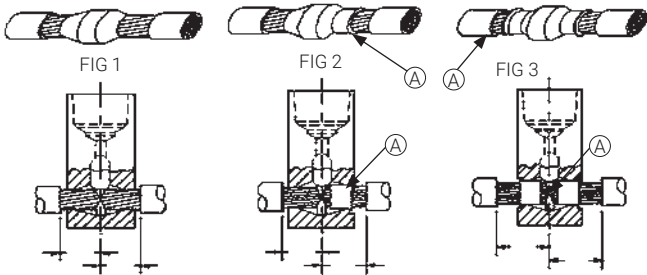
Bond Length "X" = Length of Cable in Even Inches

Bare Cable AWG/KCM Type	Stub End	Welder Pair	Cadweld Traditional Weld Material	Cadweld Plus Weld Material	Mold Only Pair	Welder Frame Only
1/0 CON- CENTRIC	PBW3- 2C-"A"	PBW1202C	PB65	PB65PLUSF80	PBW-2C	PBC105C
1/0 ROPELAY	PBW3- 2E-"A"	PBWT202E	PB65	PB65PLUSF80	PBW-2E	PBC105C
2/0 CON- CENTRIC	PBW3- 2G-"A"	PBWT202G	PB90	PB90PLUSF80	PBW-2G	PBC105C
2/0 ROPELAY	PBW3- 2J-"A"	PBWT202J	PB90	PB90PLUSF80	PBW-2J	PBC105C
4/0' CON- CENTRIC	PBW3- 2Q-"A"	PBWT202Q	PB90	PB90PLUSF80	PBW-2Q	PBC105C
4/0 ROPELAY	PBW3- 2S-"A"	PBWT202S	PB90	PB90PLUSF80	PBW-2S	PBC105C
250 ROPELAY	PBW3- 2W-"A"	PBWT202W	PB115	PB115PLUSF80	PBW-2W	PBC105C
300 ROPELAY	PBW3- 3B-"A"	PBWT203B	PB150	PB150PLUSF80	PBW-3B	PBC105C
350 ROPELAY	PBW3- 3F-"A"	PBWT203F	PB150	PB150PLUSF80	PBW-3F	PBC105C
500 ROPELAY	PBW3- 3S-"A"	PBWT203S	PB250	PB250PLUSF80	PBW-3S	PBC105C

Cadweld Transit Bonds

SPLICE CONNECTIONS

Straight Splice

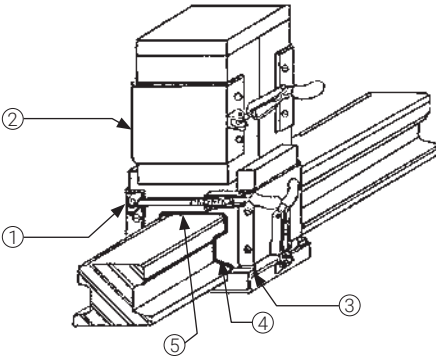


Mold Part Number Sleeve Part Number	Sleeve Part Number	No Req'd	Cadweld Traditional	Cadweld Plus	See Fig- ure	Description
PB10SS2V	-	0	PB115	PB115- PLUSF80	-	250 CON CENTRIC
PB10SS2W2V	S429F2W16	1	PB115	PB115- PLUSF80	2	250 ROPELAY TO 250 CONCENTRIC
PB10SS2W	S429F2W16	2	PB115	PB115- PLUSF80	3	250 ROPELAY
PB10SS3D	-	0	PB150	PB150- PLUSF80	-	350 CON CENTRIC
PB10SS3F3D	S429F3F16	1	PB150	PB150- PLUSF80	-	350 ROPELAY TO 350 CONCENTRIC
PB10SS3F	S429F3F16	2	PB150	PB150- PLUSF80	3	350 ROPELAY
PB10SS3Q	-	0	PB200	PB200- PLUSF80	-	500 CON CENTRIC
PB10SS3S3D	S429F3S20	1	PB200	PB200- PLUSF80	2	500 ROPELAY • TO 350 CONCENTRIC
PB10SS3S3D001	S429F3S20	1	PB90	PB90/ PLUSF80	2	500 ROPELAY * TO 350 CONCENTRIC
PB10SS3S3Q	S429F3S20	1	PB200	PB200- PLUSF80	2	500 ROPELAY • TO 350 CONCENTRIC
PB10SS3S3Q001	S429F3S20	1	PB90	PB90/ PLUSF80	2	500 ROPELAY • TO 350 CONCENTRIC
PB10SS3S	S429F3S30	2	PB200	PB200- PLUSF80	3	500 ROPELAY *
PB10SS3S	S429F3S20	2	PB200	PB200- PLUSF80	3	23.5 "COBRA" COMPOSITE (A806A11)

Cadweld Transit Bonds

SPLICE CONNECTIONS

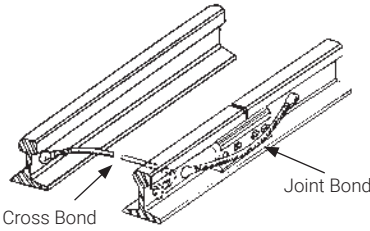
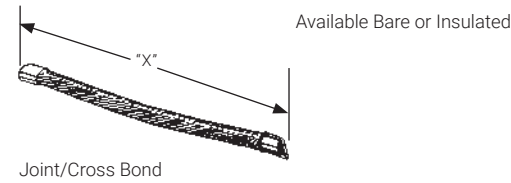
Contact Rail Splice XE1457



Type "SS" Connection		
Part Number	Description	Quantity
PB99SS150BM	Mold Only	2 PER 100 KITS
PBB23201M	Crucible Only	2 PER 100 KITS
SCC29502A SCC29502APLUSF80	Weld Material (Cadweld Traditional/Cadweld Plus)	1 PER KIT
PBB151008	BATT	1 PER KIT
PBB1007	BATT	2 PER KIT
PBB140A	SHIM	2 PER KIT
PB99SS150B	Mold Welder	Ordered Separately
PBB23201	Crucible Welder	Ordered Separately

Cadweld Transit Bonds

JOINT/CROSS BONDS



Bond Length "X" = Length of Cable in Even Inches

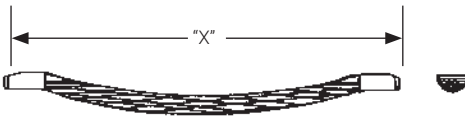
Available in Kits and Bond only

Bare Cable AWG/KCM Type	Joint/ Cross	Welder (Pair)	Cadweld Traditional Weld Material*	Cadweld Plus Weld Material*	Mold Only (Pair)	Welder Frame Only
1/0 CON-CENTRIC	PBW1-2C-"A"	PB-W1202C	PB65	PB-65PLUSF80	PBW - 2C	PBC105C
1/0 ROPELAY	PBW1-2E-"A"	PB-WT202E	PB65	PB-65PLUSF80	PBW - 2E	PBC105C
2/0 CON-CENTRIC	PBW1-2G-"A"	PB-WT202G	PB90	PB-90PLUSF80	PBW - 2G	PBC105C
2/0 ROPELAY	PBW1-2J-"A"	PB-WT202J	PB90	PB-90PLUSF80	PBW - 2J	PBC105C
4/0' CON-CENTRIC	PBW1-2Q-"A"	PB-WT202Q	PB90	PB-90PLUSF80	PBW-2Q	PBC105C
4/0 ROPELAY	PBW1-2S-"A"	PB-WT202S	PB90	PB-90PLUSF80	PBW-2S	PBC105C
250 ROPELAY	PBW1-2W-"A"	PB-WT202W	PB115	PB-115PLUSF80	PBW-2W	PBC105C
300 ROPELAY	PBW1-3B-"A"	PB-WT203B	PB150	PB-150PLUSF80	PBW-3B	PBC105C
350 ROPELAY	PBW1-3F-"A"	PB-WT203F	PB150	PB-150PLUSF80	PBW-3F	PBC105C
500 ROPELAY	PBW1-3S-"A"	PB-WT203S	PB250	PB-250PLUSF80	PBW-3S	PBC105C

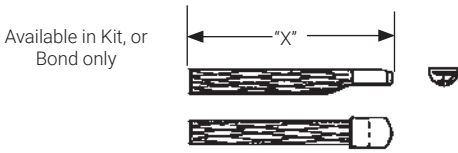
*Add WS Suffix to Bond Part Number to include sleeve.

Cadweld Transit Bonds

JOINT/CROSS, STUB END BONDS



Joint/Cross Bond



Available in Kit, or
Bond only

Stub End Bond

How to order:

Bond Length "X" = Length of Cable in Even Inches

Joint Bonds – Bond Length "X" Must Be 12" or Longer Than Rail Angle Bar

Cross Bonds – Bond Length "X" Must Be 14" or Longer Than Track Gauge

Stub End Bonds – Standard Length = 9" Other Lengths Available

Welder Mold Only Part Numbers Indicate 1 Pair

Welder Pair Include 1 Pair of Molds Mounted in Pair of Clamps

Part No. – RH (Right Hand) or – LH (Left Hand) Indicates 1 Unit

Bond Kits are Furnished with Necessary Welding Material and Steel Disks

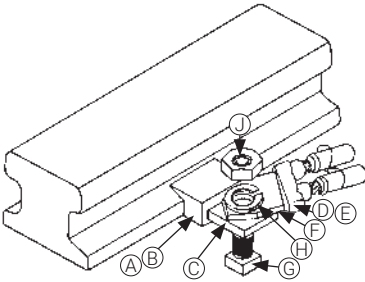
A Pair of Replacement Molds is Supplied with Every Joint/Cross Bond Kit

A Pair of Replacement Molds is Supplied with Stub End Bond Kit

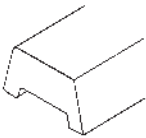
Cadweld Transit Bonds

QV CONNECTIONS

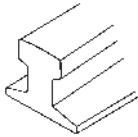
Lug to Rail



QV Connections are available for various (unique) rail profiles part numbers vary for each profile.



150# Umbrella Rail



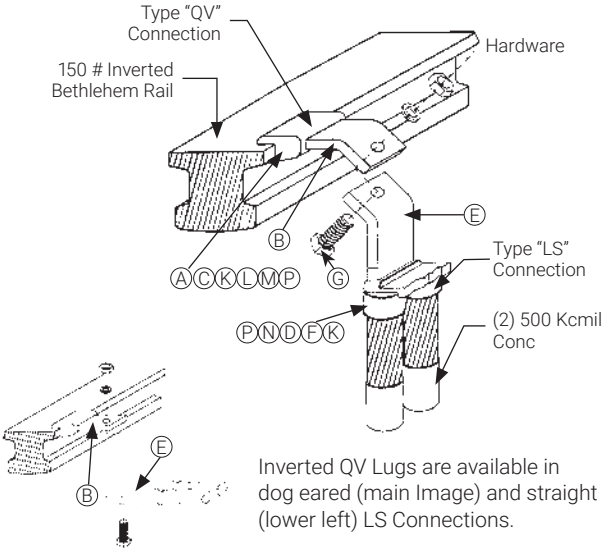
150# IRT Rail

PBK007			
Item	50 Kits Include Quantity	150# Bethlehem Rail Catalog Number	Description
A	1	PB72QVJH150B001	Mold (Only)
B	50	SCB6001A/ SCB6001APLUSF80	Weld Material (Cadweld Traditional/Cadweld Plus)
C	50	PBB103JH001	Lug
D	1	PB71LSJH3Q	Welder (Only)
E	50	PB500/ PB500PLUSF80	Weld Material (Cadweld Traditional/Cadweld Plus)
F	50	PBB103JH002	Lug
G	50	A927L007	Bolt
H	50	A929B028	Washer
J	50	A928B042	Nut

Cadweld Transit Bonds

QV CONNECTIONS

Connection Kit: Inverted 150# Rail

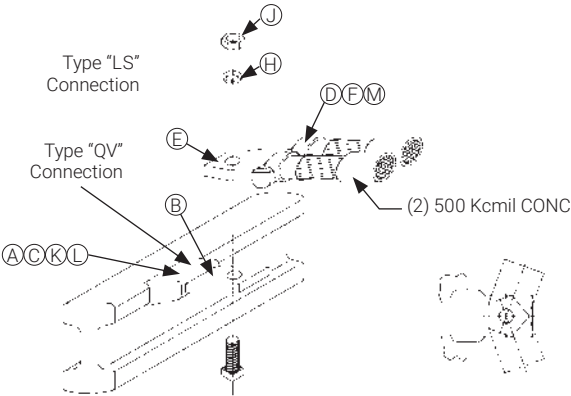


KIT NO. PBXLK206			
Description		Item	Part Number Dog-Eared/Straight
Type	Mold Only	A	PB99XLQVJHVMS
Qv	Lug	B	PBB103JH45005/PBB99XLQVJHVMS
Connection	Weld Material (Cadweld Traditional/ Cadweld Plus)	C	XLSCB6001A/XLSCB6001APLUSF80
Type	Mold Only	D	PB99XLLSJH3QS
Ls	Lug	E	PBB103JH45005/PBB99XLLSHJ3QS
Connection	Weld Material (Cadweld Traditional/ Cadweld Plus)	F	PBXL500/PBXL500PLUSF80
Hardware	Bolt	G	A927L007
	Washer	H	A929B028
	Nut	J	A928B042
Related Items Not Included in Kit			
Baffle 4 In		K	2 PBXLB973A1
Clamping Fixture For "QV" Connection		L	1 PBB466B
Frame For "QV" Connection		M	1 PBB466C
Bench Fixture For "LS" Connection		N	1 PBC104B
Relia Start Battery		P	2 PBXLB971A1

Cadweld Transit Bonds

LS CONNECTIONS

Connection Kit: Lug Dual Head Third Rail



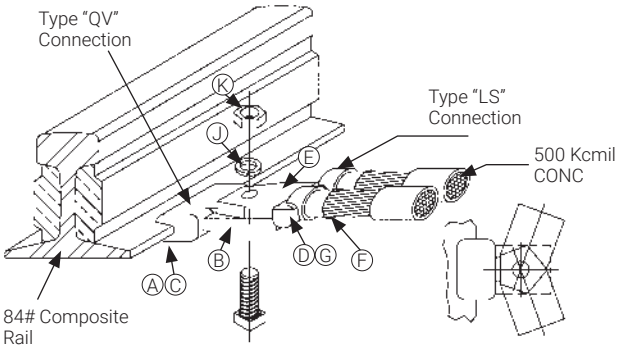
Connection Kit Lug Dual Head 3rd Rail				
Description		Item	Quantity	Part Number
Type	Mold Only	A	1*	PB80QVJH70S001
Qv	Lug	B	50	PBB103JH001
Connection	Weld Material (Cadweld Traditional/ Cadweld Plus)	C	50	SCB6001A/ SCB6001APLUSF80
Type	Mold Only	D	1*	PB71LSJH3Q
Ls	Lug	E	50	PBB103JH002
Connection	Weld Material (Cadweld Traditional/ Cadweld Plus)	F	50	PB500/ PB500PLUSF80
Hardware	Bolt	G	50	A927L007
	Washer	H	50	A929B028
	Nut	J	50	A928B042
	Flint Ignitor	-	1	PBT320
Related Items Not Included in Kit				
Clamping Fixture For "QV" Connection		K		PBB466B
Frame For "QV" Connection		L		PBB466C
Bench Fixture For "LS" Conn.		M		PBC104B

* (1) Replacement Mold Per 50 Connections

Cadweld Transit Bonds

LS CONNECTIONS

Connection Kit Lug Dual Head Third Rail (84C and 85C Rail)



Connection kits available for the following rail sections: #, 84, #85, and #150 Bethlehem, flange will change for item C and will have a different part number.

Connection Kit Lug to Third Rail				
Description		Item	Quantity	Part Number
TYPE	Mold Only	A	1* (1)	PB72QVJH84C
	"QV" Lug	B	1	PBB103JH001
CONNECTION	Weld Material (Cadweld Traditional/ Cadweld Plus)	C	3	SCB6001A/ SCB6001APLUSF80
	TYPE	Mold Only	D	1* (2)
"LS"	Lug	E	1* (3)	PBB103JH002
	CONNECTION	Weld Material (Cadweld Traditional/ Cadweld Plus)	F	2
HARDWARE	Sleeve	G	2	S429F3S20
	Bolt	H	1	A927L007
	Washer	J	1	A929B028
	Nut	K	1	A928B042

*(1) "QV" Connection Requires P/N C103C

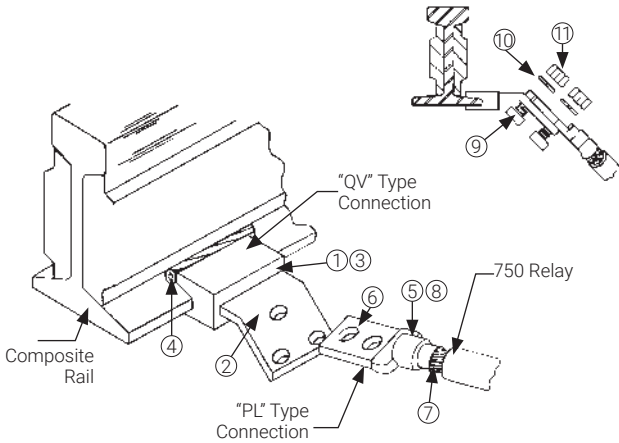
*(2) Optional Bench Fixture for Shop Assembly for "LS" Connection Available, P/N C104B. REF. XE-1384

*(3) Custom Sizes Available

Cadweld Transit Bonds

LS CONNECTIONS

Connection Kit Lug Dual Head Third Rail (84C and 85C Rail)



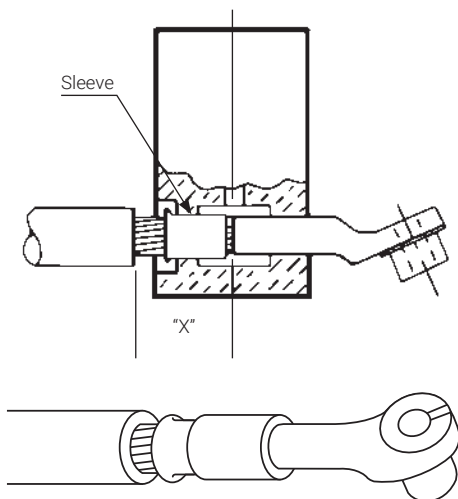
"QV" to "PL" Connection: Kit Number - PBK140				
Description		Item	QTY	Part Number
Hardware	Lock Nut	11	2	A928B043
	Lockwasher	10	2	A929B018
	Hex Bolt	9	2	A927F067
Type	Weld Material (Cadweld Traditional/Cadweld Plus)	8	2	PB200/PB200PLUSF80
PL Connection	Sleeve	7	1	S429F4N24
	Lug	6	1	B242JH
Type	Mold W/ Frame	5	*1	PB80QVJM85A001
Type	Pack Mat'l	4	*1	A1928
QV Connection	Weld Material (Cadweld Traditional/Cadweld Plus)	3	1	SCB10002A
	Lug	2	1	B103JM002BLK
	Mold	1	*1	PB80DS4NJH
	Bond	1	1	PBB595J3SA42

*1 Mold Per 50 Lug Set Kits

Cadweld Transit Bonds

CROWN SOCKETS

Cable to Crown GF Connections



Completed Connection

Cable Size	Mold Catalog Number	Sleeve Catalog Number	Cadweld Traditional Weld Material	Cadweld Plus Weld Material	Strip Length
350 ROPELAY	PB10GF3FCS	S429F3F16	PB200	PB-200PLUSF80	2"
500 CONCENTRIC	PB10GF3QCS	-	PB250	PB-250PLUSF80	2"
500 ROPELAY	PB10GF3SCS	S429F3S20	PB250	PB-250PLUSF80	2"

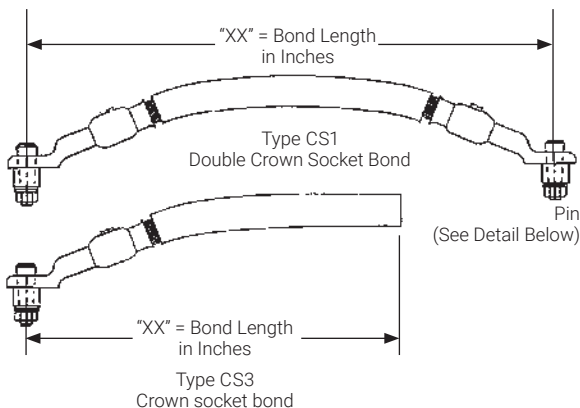
*Use with L160 Handle.

Cadweld Transit Bonds

CROWN SOCKETS

Cable to Crown Assemblies

Type CS1 (Double Crown Socket) and CS3 (Crown Socket Stub End) Insulated Bond With Pin Detail

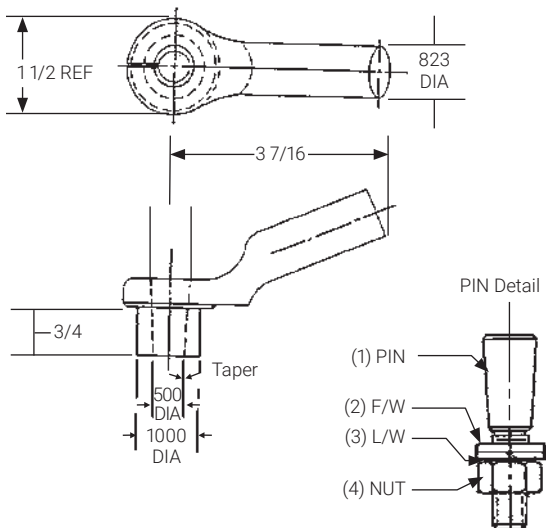


Bond Catalog Number	Type	Cable	Insulation
PBCS13S002"XX"	10GF3FCS	500 KCM ROPELAY	2 KV EPR
PBCS33S004"XX"	10GF3QCS	500 KCM ROPELAY	2 KV EPR
PBCSS13Q001"XX"	10GF3SCS	500 KCM CONCENTRIC	2 KV EPR

Cadweld Transit Bonds

CROWN SOCKETS

Lock Pin Assembly



Part Number	Description
PBB 1883Q	CROWN SOCKET W/ LOCK PIN ASSY

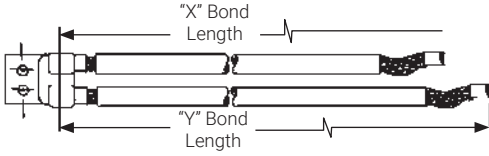
Lock Pin Assembly Only		
Pin Detail	Standard	Oversize
(1) PIN	B1B83QB1	B1B83QB2
(2) F / W	A929A036	A929A036
(3) L/W	A929B008	A929B008
(4) NUT	A928B008	A928B008

Cadweld Transit Bonds

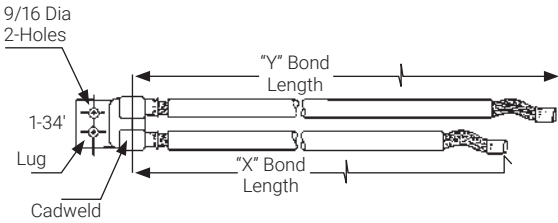
IMPEDANCE BOND SIDE LEAD

Double Hole Lug, Variable Length

Right Hand



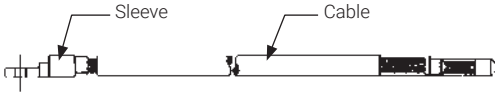
Right Hand/Left Hand



Part Number	Lug		Cadweld	
	Part Number	Size	Mold	Cadweld Traditional Weld Material
PBB490A"X" "Y"RH/LH	B242JK	1/2 X 3	PB71DS3SJK	PB500

*Order in Kits or Bonds Only

Left Hand



Bonds are Furnished with Necessary Welding Material, and Steel Disks 2-Pb250 Per Assembly.

A Corresponding (Rh/Lh) Replacement Mold is Supplied with Every 40 Assemblies.

"X" and "Y" Indicate Bond Length I in inches as Shown Specify Part No. with Suffix Rh (Right Hand) or Lh (Left Hand) When Ordering.

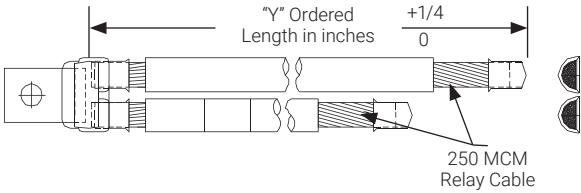
		Cable		
Cadweld Plus Weld Material	Sleeve	Size	Insulation	STRAND
PB500PLUSF80	S429F3S20	500 ROPELAY	2 KV E.P.R.	CLASS H. 427

Cadweld Transit Bonds

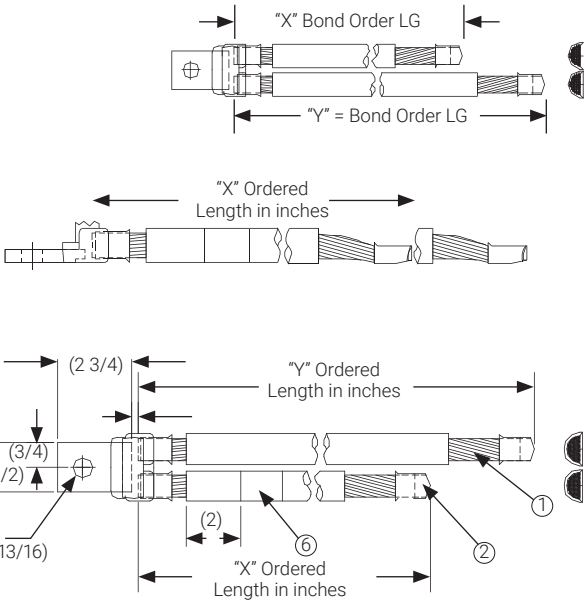
IMPEDANCE BOND SIDE LEAD

Single Hole Lug, Variable Length

Right Hand Assembly



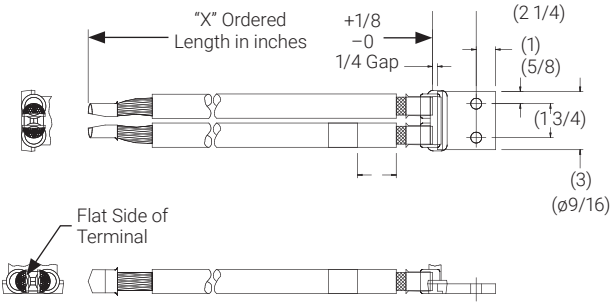
Left Hand Assembly



Cadweld Transit Bonds

IMPEDANCE SIDE LEAD

Double Hole Lug, Even Length

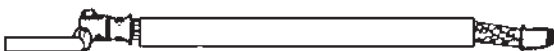
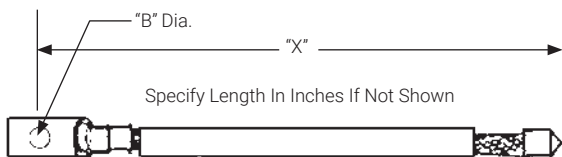


Kit includes bond, weld material, and replacement molds

Cadweld Transit Bonds

IMPEDANCE SIDE LEAD

Web Bond



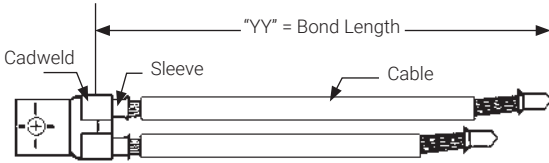
Bond 1		Cable			Lub		Cadweld Connection
Part Number	Dim. "X"	Size	Type	Insulation	Size	DIA. "B"	Traditional/Plus
PBW32W00236	36	250 KCM	CLASS "H"	2 KV E.P.R.	1/4 - 1 1/2	13/16	TYPE GL/ TYPE GL PLUS
PBW32W002"X"	SPECIFY "X"	250 KCM	CLASS "H"	2 KV E.P.R.	1/4 - 1 1/2	13/16	TYPE GL/ TYPE GL PLUS
PBW33S00548	48	500 KCM	CLASS "H"	2 KV E.P.R.	1/4 - 1 1/2	13/16	TYPE GL/ TYPE GL PLUS
PBW33S00530	30	500 KCM	CLASS "H"	2 KV E.P.R.	1/4 - 1 1/2	13/16	TYPE GL/ TYPE GL PLUS
PBW33S00560	60	500 KCM	CLASS "H"	2 KV E.P.R.	1/4 - 1 1/2	13/16	TYPE GL/ TYPE GL PLUS
PBW33W005"X"	SPECIFY "X"	500 KCM	CLASS "H"	2 KV E.P.R.	1/4 - 1 1/2	13/16	TYPE GL/ TYPE GL PLUS
PBW33S02642	42	500 KCM	CLASS "H"	2 KV E.P.R.	1/4 - 1 1/2	7 / 8	TYPE GL/ TYPE GL PLUS

Cadweld Transit Bonds

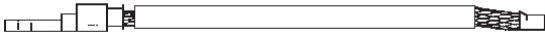
IMPEDANCE SIDE LEAD

Web Bond

Right Hand Assembly



Side View Left Hand Assembly

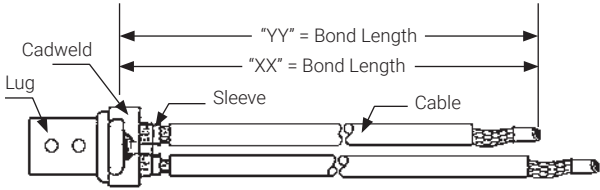


Part Number	Lug	Size	Cadweld	Cald-weld Traditional Weld Material	Cad-weld Plus Weld Material	Cable	Size	Insulation
	Part Number		Mold			Sleeve		
PBW33S-012XX/YY - RH	B241-JH002	1/2 X 2	PB71-DS3SJH	PB500	PB500-PLUS-F80	PBS429-F3S20	500 ROPE-LAY	2 KV E.P.R.
PBW33S-012XX/YY - RH	B241-JH002	1/2 X 2	PB71-DS3SJH	PB500	PB500-PLUS-F80	PBS429-F3S20	500 ROPE-LAY	2 KV E.P.R.

Kit includes bond, weld material, and replacement molds

Cadweld Transit Bonds

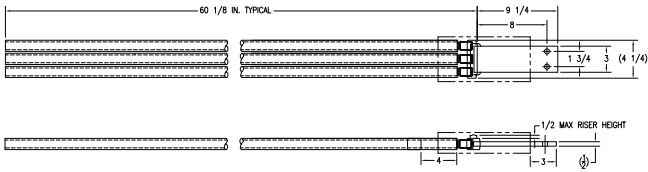
IMPEDANCE SIDE LEAD



Part Number	Lug		Cadweld			Cable		Insulation
	Part Number	Size	Mold	Cadweld Traditional Weld Material	Cadweld Plus Weld Material	Sleeve	Size	
PBB526-AXX-YY	PB-B242JG	1/2 x 1 1/2	PB71-D53SJG	PB500	PB500-PLUSF80	PBS429-F3S20	500 ROPELAY	2 KV E.P.R.
PBB526-BXX-YY	PB-B242JG	1/2 x 1 1/2	PB71-D53SJG	PB500	PB500-PLUSF80	500 ROPELAY	500 ROPELAY	2 KV THW

Kit includes bond, weld material, and replacement molds

Bond, Kit, IMPD Side Lead, W/QTY 10 3-500KCM Rlay



Part Number PBB427A2LISL

4 - 500 KcMIL B468

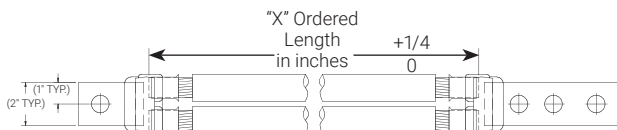


Part Number PBB468

Cadweld Transit Bonds

IMPEDANCE BOND CENTER LEAD

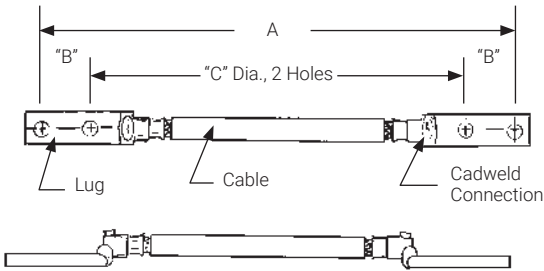
XE1558C_0



Item	Part Number	Quantity	Description
X	PBB489KA3S'XXX'	X	BOND,IMPD,CNTR LEAD 500 RLY INSUL 'XXX' IN.LG.

Cadweld Transit Bonds

IMPEDANCE BOND CENTER LEAD



Part Number	Dim. "A"
PBB2133S00160	60

Cable		
Size	Type	Insulation
500 KCM	CLASS H	2 KV E.P.R.

Lug		
Size	DIM. "B"	DIA. "C"
1/4 - 1 1/2	1/4 - 1/4	9/16

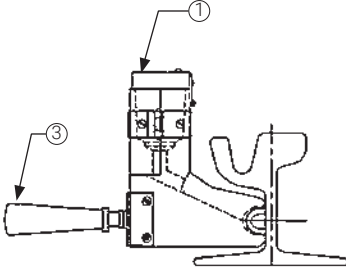
Cadweld Connection
TYPE GL/TYPE GL PLUS

Cadweld Transit Bonds

GIRDER RAIL

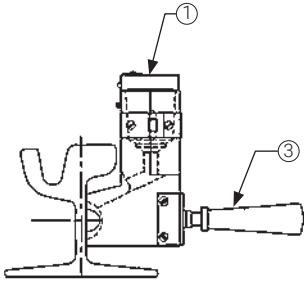
Stub End Bond

PBW2W010RH/LH



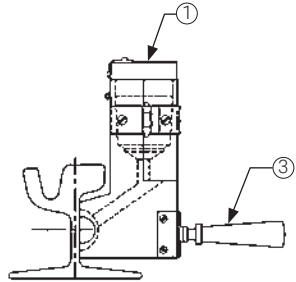
Gage Side/LH

PBW2WRH/LH



Field Side

PBW3SRH/LH

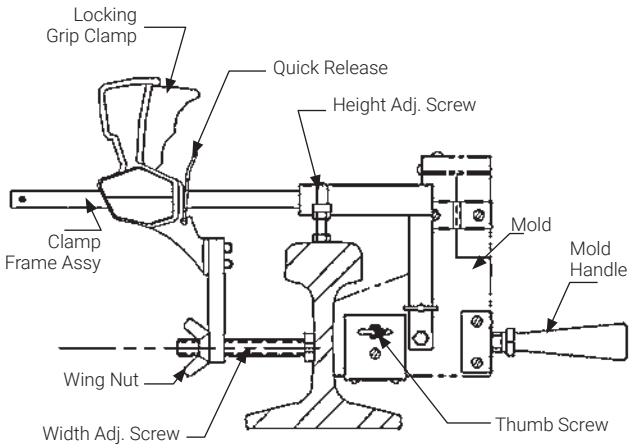


Field Side

Mold (1)	Cadweld Traditional/Plus Weld Material	Qty (2)	Rail Frame (3)	Mold Cleaner	Bond No.	Cable Type	R152/R13 Rail Side
PBW2W010RH	PB115/ PB115PLUSF80	1	B125 A01	B136B	PB- C32W	250 RLAY	Gage
PBW2W010LH	PB115/ PB115PLUSF80	1	B125 A01	B136B	PB- C32W 'XX'	250 RLAY	Gage
PBW2W001RH	PB115/ PB115PLUSF80	1	B125 A02	B136B	PB- W32W 'X' B	250 RLAY	Field
PBW2W001LH	PB115/ PB115PLUSF80	1	B125 A02	B136B	PB- W32W 'X' B	250 RLAY	Field
PBW3S002RH	PB115/ PB115PLUSF80	1	B125 A02	B136B	PB- W33S 'X' B	500 RLAY	Field
PBW3S002LH	PB115/ PB115PLUSF80	1	B125 A02	B136B	PB- W33S 'X' B	500 RLAY	Field

Cadweld Transit Bonds

CLAMPS



Part Number	
PBC105P1	For 250 kcmil and smaller
PBC105P2	For 300 kcmil and large
SBC105S	Head of Rail Connections

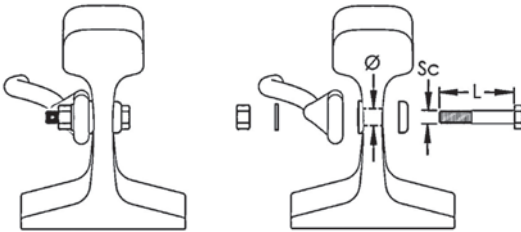
NOTES

Mechanical Connections

NVENT ERICO ERICONTACT

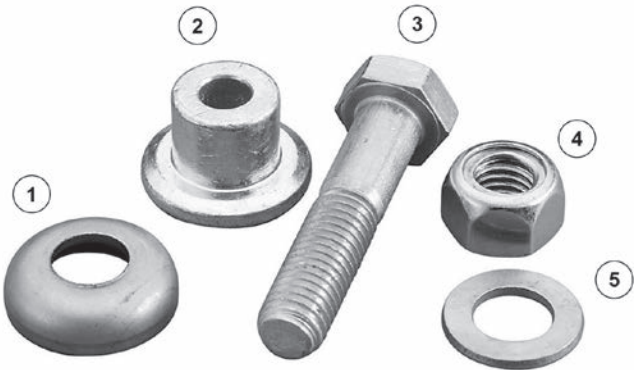
The nVent ERICO Ericontact series of rail contacts provides a superior quality connection to the rail web with a very low contact resistance. The contacts are quickly and easily fitted by means of an insertion tool, regardless of weather conditions. All nVent ERICO Ericontact components are manufactured according to high standards and norms. Tested to the most demanding requirements of the Rail Industry Standards, nVent ERICO Ericontact is the ideal solution for mechanically applied connections such as signal engineering, earthing (grounding), or traction return current.

Single Rail Contact SK



Components

1. M12 stainless steel washer
2. Electrolytically tin plated copper bush
3. M12 standard stainless steel bolt.
4. M12 stainless steel self – locking nut or galvanized
5. M12 stainless steel flat washer full metal locking nut (depending on contact type).



Mechanical Connections

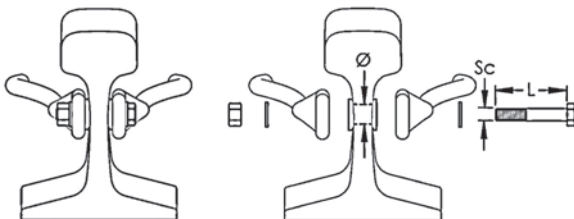
NVENT ERICO ERICONTACT

SK Series Rail Contacts



The SK series of rail contacts are the ideal solution for signal engineering, earthing, traction return current and similar applications.

Double Rail Contact DSK



Components

1. Electrolytically tin plated copper bushes
2. M12 standard stainless steel bolt.
3. M12 stainless steel self-locking nut or galvanized full metal locking nut (depending on contact type).
4. M12 stainless steel washers.



Mechanical Connections

NVENT ERICO ERICONTACT

DSK Series Rail Contacts



Detachable cable lugs can be connected to DSK series double rail contacts from both sides of the rail simultaneously. This is an enormous advantage when making interconnections in the station area, for example. Compared to the conventional SK rail contact, the DSK halves the number of necessary contacts. The DSK double

contact is the ideal solution even in confined spaces, such as around points, for example. With a clearance of only 50 mm between the rail heads, the contact can still be inserted and the cable lug fitted from both sides.

Rail Contacts 19 mm

Part Number	Description	Web Thickness mm	Rail Types
SK 19/12	SINGLE RAIL CONTACT	12,0–13,9	S41, Ri59, Ri60, AS 41, BHP 42, BS90A
SK 19/14	SINGLE RAIL CONTACT	14,0–16,9	S49, S54, UIC54, UIC60, R50, NP 46, AS50, AS60, BS110A, 132, 127, 115, 100, 85
DSK 19/12	DOUBLE RAIL CONTACT	12,0–13,4	S41, Ri59, Ri60, AS41, BHP 42
DSK 19/14-16	UNIVERSAL DOUBLE CONTACT	13,5–16,5	S54, UIC 54, UIC60, R50, AS60, BS110A, 132, 127, 115, 100, 85

Features and Benefits

- Easy to install
- A very low contact resistance ($< 5 \mu\Omega$).
- A standard bolt M12 is used for the single contact SK 19 and the double contact DSK 19. Easier for maintenance.

Mechanical Connections

BONDS

Plug Bonds

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 0.3300
SBPAJB"XX"	S-5	3 Copper, 16 Galvanized Steel	0.3060 0.2430
SBPAJC"XX"	7-#10	7-40% Copper-bonded	0.1875
SBPAJD"XX"	7-#12	7-40% Copper-bonded	0.1875
SBPAJ3"XX"	S-8	133 Cadmium Bronze	-
SBPAJR"XX"	S-8 Insul	133 Cadmium Bronze w/4/64" PVC Insulation	0.2510
SBPAJG"XX"	S-12	42 Cadmium Bronze, 91 Hard Drawn Stain, Steel	-
	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.

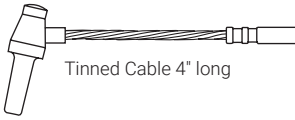
nVent ERICO plug bonds are designed for application to the rail web. Plug bonds are hammered into a 3/8" diameter hole drilled through the rail web (driven from same side hole was drilled).

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

Mechanical Connections

BONDS

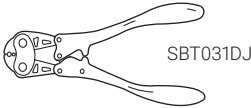
Track Connectors “Chicken Heads”



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.



Multi-Purpose Bonds



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")

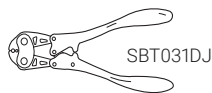
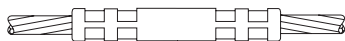
The nVent ERICO multi-purpose bond is used when a standard plug bond cannot be installed from the field side of rail due to tight areas such as frogs and switches.

Mechanical Connections

ASSOCIATED MATERIAL

Sleeves – Compression Type

Standard Package 100

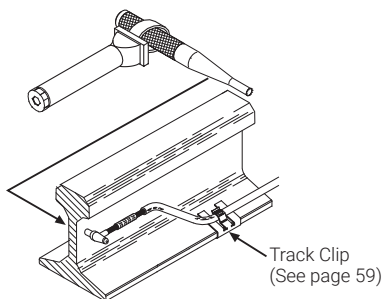


Part Number	3/16" Bond Strand to: Description
A2314J	#9 solid or #10 str
A2364J	#8 solid or #9 str
A2363J	#6 solid or #8 str
A2367J	#3/16" or #6 str
A2412J	1/4" Binding Post, Lug
SBT031DJ	Compression Tool

No-Oxide Grease

Part Number	Description
T369	1 ounce tube

Bond Removal Punch

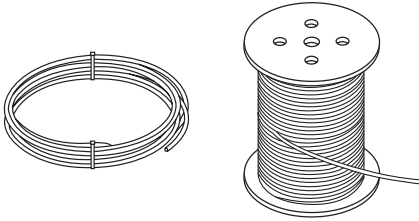


Part Number	Description
SBT382B	Punch Only
SBT408	Plastic Handle Only
SBT382BWH	Punch w/Handle
SBT382BWPH	Punch w/Plastic Handle

Mechanical Connections

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	SBS8LBARE	SBS8BARE	S-8, 3/16", Bare
-	SBS8TLINS664ORG	-	S-8, 3/16" Tinned, Orange 6/64 PVC
SBS17CBARE	-	-	S-17, 5/16", Bare

Theft Deterrent Cables

Cable Construction	
A805A20F	Bare
A805A40F	Bare
A805A20INSF	Insulated
A805A40INSF	Insulated
A806A06FC	Insulated

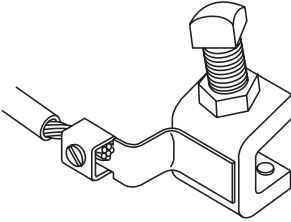
Miscellaneous Bonding Items

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

Mechanical Connections

TEMPORARY CONNECTORS

Temporary Track Connector



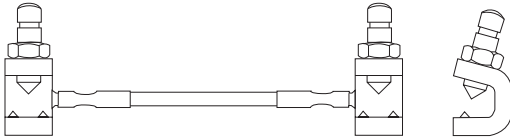
Part Number	Description
A140	Bolt Type
A140WT	T-Handle Type

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"



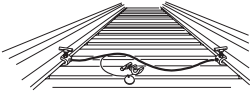
Part Number	Description
SBS3086S48	3/16" Orange Insul. 48" long
SBS3086S48WT	3/16" Orange Insul. w/T-handle 48" long
SBS3086R48	3/16" Black Insul. 48" long
SBS3086R48WT	3/16" Black Insul. w/T-handle 48" long

- 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 Connections

TRACK CIRCUIT SHUNTS

Dual Shunt



Dual Base Style

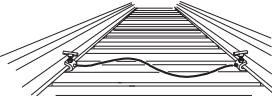


Dual Head Style

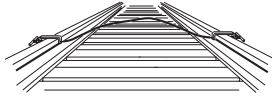
Part Number	Description
SBB2721S	Dual Shunt (0.06 ohm/hard) Base style 2 pt. clamp
SBB2721T	Dual Shunt (0.06 ohm/hard) Head style 2 pt. clamp
SBB2721G	Dual Shunt (0.06 ohm/hard) Head style 3 pt. clamp
SBB2721B	Dual Shunt (0.06 ohm/hard) Base style 3 pt. clamp
SBB2721V	Dual Shunt (0.06 ohm/hard) Head style 2 pt. clamp with locking hardware

- 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



Single Base Style



Single Head Style

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
SBB2721JS72SP	Hard Shunt only, Head style, 2 pt. clamp with locking hardware
SBB2721WS300	Hard Shunt only, Head style, 2 pt. clamp, 25 foot length
SBB2721WS600	Hard Shunt only, Head style, 2 pt. clamp, 50 foot length

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.

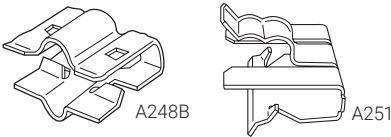
Cable Clips

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 – nVent now enables you to secure cables—reducing maintenance and improving wayside safety.

Electroplated Spring Steel



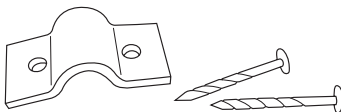
Part Number	Max Cable Diameter	Position on Rail Base	Standard Packaging
A248B	3/8"	Perpendicular	50
A251	3/8"	Double Parallel	50

Electroplated Steel



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
A206	1/2"	Perpendicular	50
A219	5/16"	Double Parallel	100

PVC Cable Keeper

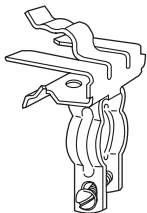


Part Number	Description
T375	7/16" Diameter Cable Keeper—2 Holes w/nails

Cable Clips

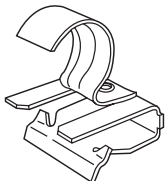
RETAINER CLIP ASSEMBLIES

Below Rail Base



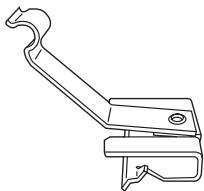
Part Number	Description	Standard Packaging
SBA2510B	3/4" Dia.	50
SBA2511B	1" Dia.	50
SBA2512B	1-1/4" Dia.	50

Rail Base



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

Web

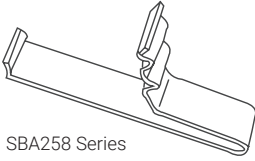


Part Number	Description	Standard Packaging
SBA254A1	3/8" Dia.	25
SBA255D1	1/2" Dia.	25

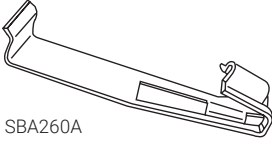
Cable Clips

"SNAP-ON" STYLES

Stainless Steel Rail Type



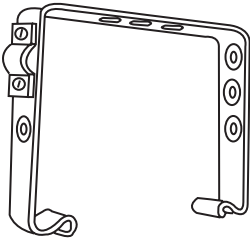
SBA258 Series



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

Concrete Tie Clips "Snap-On" Style Stainless Steel



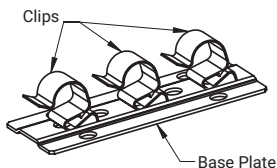
Flexible configurations

Contact nVent to complete the Concrete Dimension and Hardware Requirement Form

Cable Clips

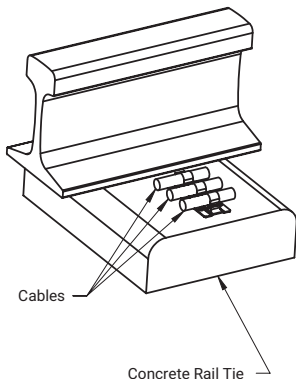
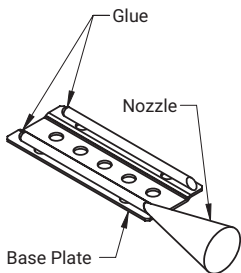
GLUED RAIL CLIPS

Cable Clip Kit for Concrete Rail Ties



Part Number	Description	Std Pack		Max. clips per base
		Base	Clips	
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
GCHSC1924	Cable Dia. 0.75-0.94 in	30	90	3
GCHSC2530	Cable Dia. 0.98-1.19 in	30	60	2

- 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

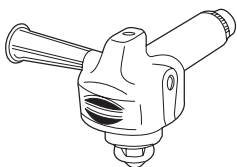
RAIL GRINDERS

Pedestal Rail Grinder (Gas Powered)

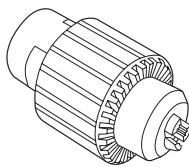


Part Number	Description
SBG141	3.5 HP (Briggs & Stratton I/C) Grinder with 6' Shaft & Housing Base Plate Shaft Adapter Straight Spindle 6" Wheel & Guard Dressing Stone

SBG141 Drill Attachment Parts



SB22127



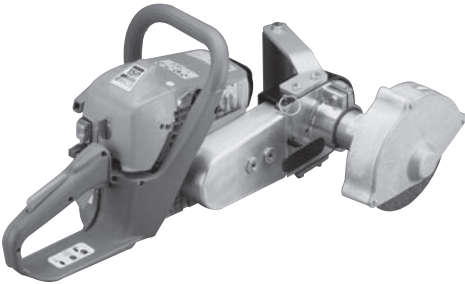
SBS2171A

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

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

Grinding Wheels

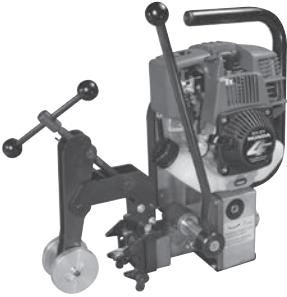


Part Number	Description
SBG20046	Cleaning and Cutting Wheel, Depressed center, designed for right angle use (std. package of 5)

Grinders & Drilling Machines

RAIL DRILLING MACHINES

Portable Drilling Machine (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

Clamping Devices



Part Number	Description
BSK1	Head clamping for normal rails, 7 lbs.
BSK2	Head clamping for grooved rails, 9 lbs.
BSF1	Rail foot clamping device, 9 lbs.

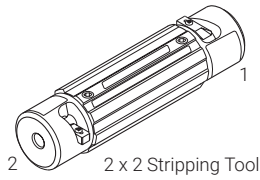
Rail Drilling Accessories



Part Number	Description
RPT115LB	Rail Drilling Template 115 LB, 2.98 in
RPT132RE	Rail Drilling Template 132 RE, 3.20 in
RPT136RE	Rail Drilling Template 136 LB, 3.36 in
DCV5000	Drilling Coolant Concentrate, 2.64 gal. (10 ltr.)
COOLTANKASSY	Coolant Tank & Pump

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

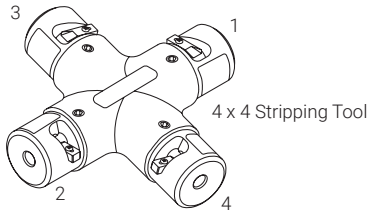
Part Number	Description
SBRTCB6667	Replacement Blades-Pkg of 5

Accessory

Part Number	Description
SBRT36024	2 x 2 Tool Driver Adapter

Tools & Bonding Accessories

STRIPPING TOOLS 4 X 4



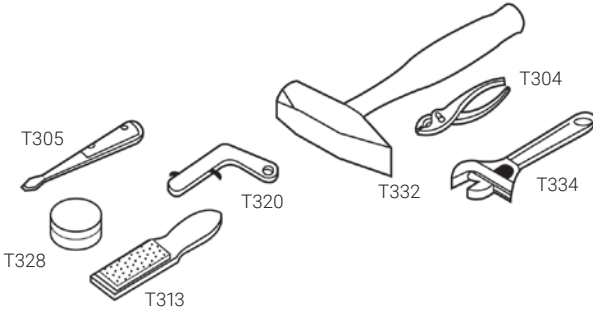
Part Number	Description	
	Bushing 1	Bushing 2
SBRT36000906	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 1 1/64" Insulation
SBRT36000907	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 11/64" Insulation
SBRT360001004	3/16" Bond Strand, 4/64" Insulation	#6 Solid, 11/64" Insulation
SBRT360001010	3/16" Bond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

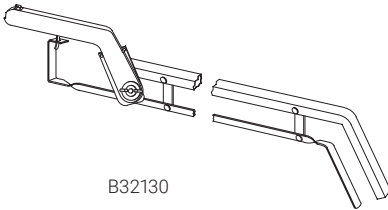
Tools & Bonding Accessories

MISCELLANEOUS TOOLS



Part Number	Description
T304	Slip Joint Pliers
T305	Screw Driver
T313	Card Cloth Brush
T320	Flint Ignitor
T320A	Replacement Flint (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



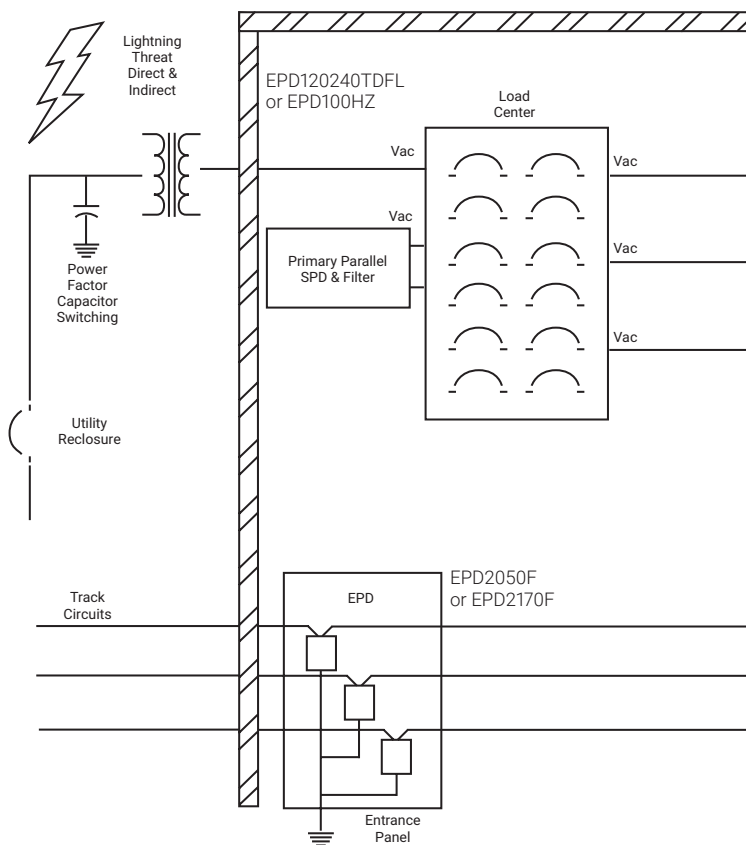
B32130

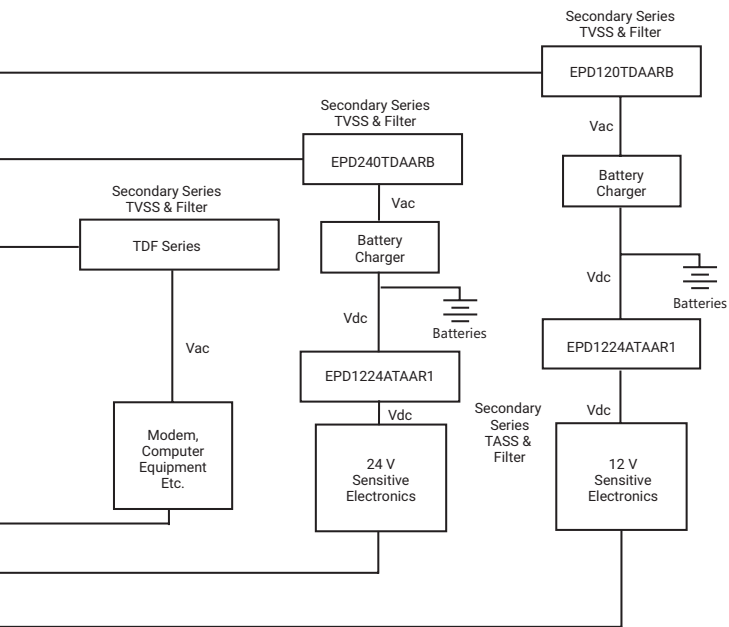
Railway Electrical Protection

TYPICAL SIGNAL BUNGALOW POWER PROTECTION LAYOUT

Using Protection Devices From nVent for Total Facility Protection

Transient Discriminating (TD) Technology





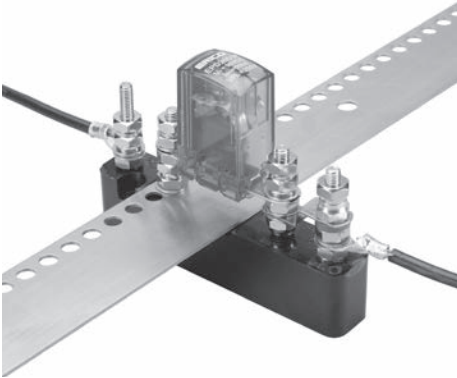
Railway Electrical Protection

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
B2700A2C1WHB	–
B2700HC36T	Terminal Strip – 36"
B2700HC48T	Terminal Strip – 48"
B2700HC60T	Terminal Strip – 60"

Contact nVent For Design Assistance

Primary Surge Protection

EPD POWER PROTECTION 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	120/240 VAC primary surge protector, TD Technology, flying lead, 85 kA

- 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	120 VAC, 100 Hz, primary surge protector, fused, TD Technology
EPD100HZ120240V	120/240 VAC, 100 Hz, primary surge protector, fused, TD Technology

Primary Surge Protection

EPD 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 and unique colors to help ensure proper application
- 50 kA 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

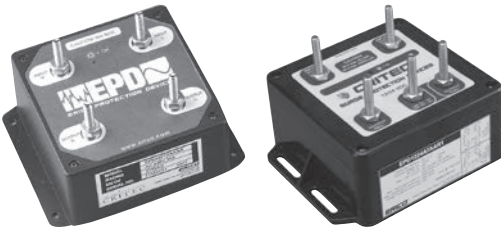


Part Number	Description
EPD2050F	50 VDC/35 VAC Signal Protector, 30 kA, 2 terminal arrester
EPD2170F	170 VDC/120 VAC Signal Protector, 20 kA, 2 terminal arrester

Secondary Surge Protection

EPD POWER PROTECTION SURGE DEVICES

- Series hybrid TVSS technology
- Universal design for 12 VDC & 24 VDC applications
- 30 A 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



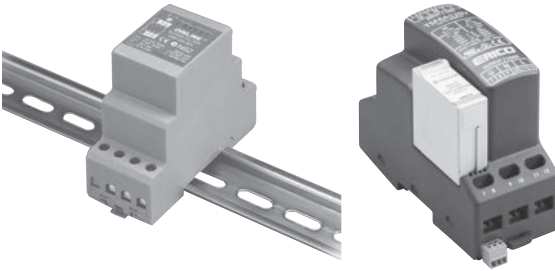
Part Number	Description
EPD1224ATAAR1	12 & 24 VDC secondary power protector, 30 A max load
EPD120TDAARB	120 VAC secondary power protector, 30 A max load
EPD240TDAARB	240 VAC secondary power protector, 30 A max load

Peripheral Power Protection

DINLINE SURGE FILTERS

- Compact, space saving design
- Replaceable surge module reduces down time and unprotected time during maintenance
- Compliance to the latest UL 1449 Edition 4 and IEC 61643-11 surge standards and UL 1283 Electromagnetic Interference Filters (EMI) standard
- Low let-through voltages on the critical line to neutral mode
- Transient Discriminating (TD) Technology provides increased service life

Transient Surge Filter (TSF)



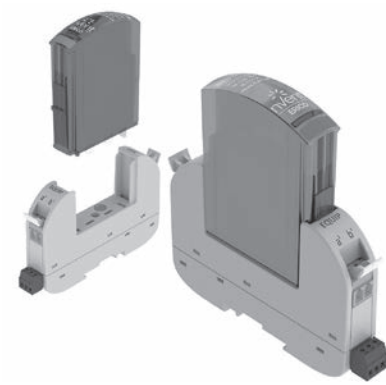
Part Number	Nominal System Voltage U_n	Rated Load Current I_L
TSF6A24V	24 V	6 A
TSF6A120V	120 V	6 A
TSF20A120V	120 V	20 A
TSF6A240V	240 V	6 A
TSF20A240V	240 V	20 A

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

Rail Transient Barrier Next Generation



Part Number	Nominal System Voltage Un	Rated Load Current IL	Replacement Module
RTB12N	12 VDC 9 VAC	15 A	RTBN12M
RTB30N	30 VDC 21 VAC	15 A	RTBN30M
RTB50N	50 VDC 35 VAC	15 A	RTBN50M
RTB130N	130 VDC 110 VAC	15 A	RTBN130M

Grounding

GROUND RODS



Figure 1

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 Couplers				
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	-

Grounding

CADWELD ONE SHOT

Connections

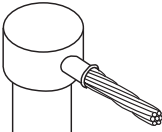
The Cadweld One Shot consists of a ceramic mold, disk, F80 welding material and cover.

- 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

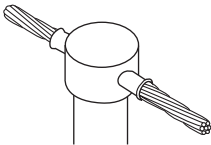
Type GR Traditional and GR Plus



Type GR

Ground Rod Size	Conductor Size		Connector Part #	
	Solid	Stranded	Type GR	Type GR Plus
5/8'	6, 8	8	SBGR1161G	SBGR1161GPLUS
	3, 4	4,6	SBGR1161L	SBGR1161LPLUS
3/4'	6, 8	8	SBGR1181G	SBGR1181GPLUS
	3, 4	4,6	SBGR1181L	SBGR1181LPLUS

Type GT Traditional and GT Plus



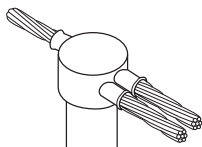
Type GT

Ground Rod Size	Conductor Size		Connector Part #	
	Solid	Stranded	Type GT	Type GT Plus
5/8'	6, 8	8	SBGT1161G	SBGT1161GPLUS
	3, 4	4,6	SBGT1161L	SBGT1161LPLUS
3/4'	6, 8	8	SBGT1181G	SBGT1181GPLUS
	3, 4	4,6	SBGT1181L	SBGT1181LPLUS
	1,2	2,3	SBGT1181V	SBGT1181VPLUS

Grounding

CADWELD ONE SHOT

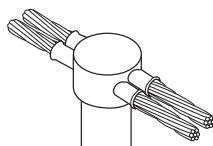
Connections: Cable-To-Ground Rod
Type NT Traditional and NT Plus



Type NT

Ground Rod Size	Conductor Size		Connector Part #	
	Solid	Stranded	Type NT	Type NT Plus
5/8'	6, 8	8	SBNT1161G	SBNT1161GPLUS
	3, 4	4,6	SBNT1161L	SBNT1161LPLUS
3/4'	6, 8	8	SBNT1181G	SBNT1181GPLUS
	3, 4	4,6	SBNT1181L	SBNT1181LPLUS
	1, 2	2,3	SBNT1181V	SBNT1181VPLUS

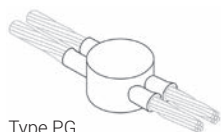
Type NX Traditional and NX Plus



Type NX

Ground Rod Size	Conductor Size		Connector Part #	
	Solid	Stranded	Type NX	Type NX Plus
5/8'	6, 8	8	SBNX1161G	SBNX1161GPLUS
	3, 4	4,6	SBNX1161L	SBNX1161LPLUS
3/4'	6, 8	8	SBNX1161V	SBNX1161VPLUS
	3, 4	4,6	SBNX1181G	SBNX1181GPLUS
	1,2	2,3	SBNX1181L	SBNX1181LPLUS
	-	-	SBNX1181V	SBNX1181VPLUS

Connections: Cable-to-Cable
Type PG Traditional and PG Plus



Type PG

Conductor Size		Connector Part #	
Solid	Stranded	Type PG	Type PG Plus
3, 4, 6	4, 6	SBPG11L	SBPG11LPLUS

Grounding

GROUND ENHANCEMENT MATERIAL



nVent ERICO GEM
Ground Enhancement Material



nVent ERICO Quickfill
No-Mix Ground Enhancing Backfill

Part Number	Description	Part Number	Description
GEM25A	25 Pound Bag	QF25	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)

A no-mix ground-enhancing backfill that reduces resistance to ground with the versatility to be used in difficult environments.

- Ideal grounding solution for areas of poor conductivity such as rocky ground, mountain tops, and sandy soil.
- Fast and easy installation, convenient for one person to install with no mixing or curing time required, and has the versatility to be installed freezing temperatures as well as places without access to water.
- Complies to the U.S. Environmental Protection Agency (EPA) Toxicity Characteristic Leaching Procedure (TCLP), EPA test method 1311, and EN 12457-2 Characterization of Waste Leaching Procedure, ENV 12506 and ENV 13370.

Grounding

ALUMINUM-COPPER GROUNDING STUD

Aluminum Signal Mast

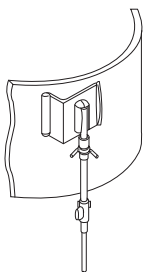


Figure 1

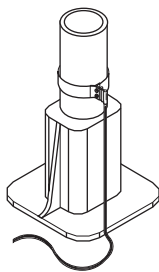


Figure 2

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		
B852A8C1G96	with 96" long Pigtail	2
B852A8C1G72	with 72" long Pigtail	2

Aluminum Signal Case

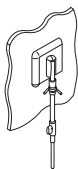


Figure 3

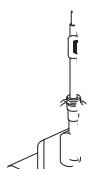


Figure 4



Figure 5

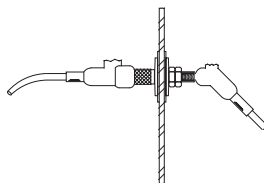


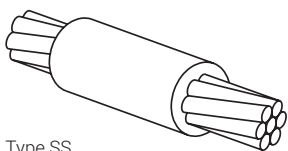
Figure 6

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.

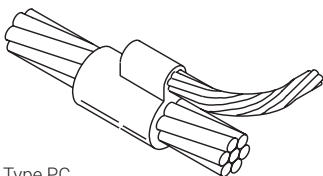
Grounding

CADWELD CONNECTIONS CABLE-TO-CABLE



Type SS

Cable Size	Welder Part No.	Weld Material F80	
		Cadweld Traditional	Cadweld Plus
#6 Sol	SB02SS6	SB25	SB25PLUSF80
4	SB03SS1L	SB25	SB25PLUSF80
2	SB10SS1V	SB32	SB32PLUSF80
3/16"	SB02SS3	SB25	SB25PLUSF80
3/16"	SB02SS3001	SB32	SB32PLUSF80



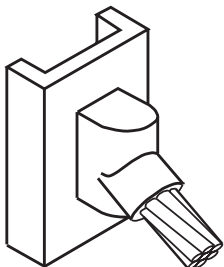
Type PC

Cable Size	Welder Part No.	Weld Material F80	
		Cadweld Traditional	Cadweld Plus
Run	Tap		
#6 Sol	#6 Sol	SB32	SB32PLUSF80
#6 Sol	#6 Sol	SB25	SB25PLUSF80
#6 Sol	5/16"	SB32	SB32PLUSF80
3/16"	#6 Sol	SB25	SB25PLUSF80
3/16"	3/16"	SB25	SB25PLUSF80

Grounding

CABLE-TO-STEEL STRUCTURES

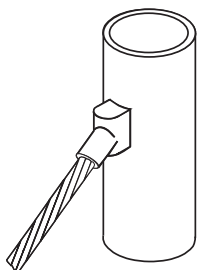
Flat Vertical Surface



Type VS

Cable Size	Welder Part No.	Weld Material (F80)	
		Cadweld Traditional	Cadweld Plus
Sol 4	SB01VS4	SB25	SB25PLUSF80
Sol 6	SB01VS6	SB25	SB25PLUSF80
Sol 6	SB01VS6001	SB32	SB32PLUSF80
Sol 8	SB01VS8	SB25	SB25PLUSF80
3/16"	SB01VS3	SB25	SB25PLUSF80

Round Vertical Surface

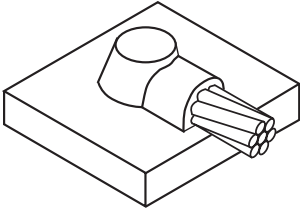


Cable Size	Welder Part No.	Weld Material F80	
		Cadweld Traditional	Cadweld Plus
Sol 6	SB01VS6V5C	SB25	SB25PLUSF80
Sol 6	SB01VS6V5C01	SB32	SB32PLUSF80

Grounding

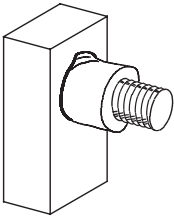
CADWELD CONNECTIONS CABLE-TO-STEEL STRUCTURES

Horizontal Flat Surface

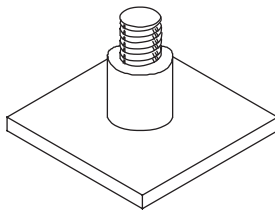


Type HA

Cable Size	Welder Part No.	Weld Material (F80)	
		Cadweld Traditional	Cadweld Plus
Sol 6	SB41HA6	SB32	SB32PLUSF80
Sol 6	SB41HA6001	SB25	SB25PLUSF80



Type HV

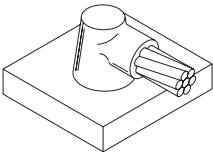


Type HX

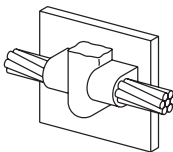
Cable Size	Welder Part No.	Weld Material (F80)	
		Cadweld Traditional	Cadweld Plus
1/4" AAR	SB01HV10001	SB32	SB32PLUSF80
Split Stud	SB01HV10002	2-SB25	2-SB25PLUSF80
-	SB01HX10002	SB32	SB32PLUSF80

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

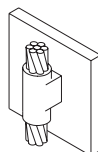
Other Types and Sizes Available



Type HS



Type VG



Type VV

Hammerlock

NVENT ERICO LAY-IN HAMMERLOCK GROUND CLAMP



Ground Rod Type: Copper-bonded
Material: Copper

Catalog Number	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Direct Burial	Number of Conductors	Length	Width	Unit Weight
ELHL12-FC1V	0.5"	0.5"	#4 Stranded - #2 Stranded, 25 mm ² Stranded	Yes	1	2.45"	0.875"	0.3 lb
ELHL12-FC1K	0.5"	0.5"	#6 Solid - #4 Solid	Yes	1	2.45"	0.875"	0.3 lb
ELHL58-C1V	0.625"	0.56"	#4 Stranded - #2 Stranded, 25 mm ² Stranded	Yes	1	2.45"	0.875"	0.28 lb
ELHL58-C1K	0.625"	0.56"	#6 Solid - #4 Solid	Yes	1	2.45"	0.875"	0.3 lb
ELHL34-C1V	0.75"	0.68"	#4 Stranded - #2 Stranded, 25 mm ² Stranded	Yes	1	2.45"	1.0"	0.35 lb
ELHL34-C1K	0.75"	0.68"	#6 Solid - #4 Solid	Yes	1	2.45"	1.0"	0.37 lb

Hammerlock

NVENT ERICO HAMMERLOCK GROUND CLAMP



Material: Copper

Catalog Number	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual Ø	Conductor Size	Number of Conductors	Certifications
Ground Rod Type: Copper-bonded					
EHL12FC2G	1/2"	0.5"	1/0 Stranded - 2/0 Stranded	1	UL, cUL
EHL12FC1V	1/2"	0.5"	#4 Stranded - #2 Stranded, 25 mm ² Stranded	1	cUL, UL
EHL12FC1K	1/2"	0.5"	#6 Solid - #4 Solid, 16 mm ² Stranded	1	UL, cUL
EHL12FC1K1K	1/2"	0.5"	#6 Solid - #4 Solid, 16 mm ² Stranded	2	-
EHL34C2G	3/4"	0.68"	1/0 Stranded - 2/0 Stranded, #2 Solid	1	cUL, UL
EHL34C2Q	3/4"	0.68"	3/0 Stranded - 4/0 Stranded, #2 Solid	1	UL, cUL
EHL34C1V	3/4"	0.68"	#4 Stranded - #2 Stranded, 25 mm ² Stranded	1	UL, cUL
EHL34C1K	3/4"	0.68"	#6 Solid - #4 Solid, 16 mm ² Stranded	1	cUL, UL
EHL58C2G	5/8"	0.56"	1/0 Stranded - 2/0 Stranded	1	cUL, UL
EHL58C1V1V	5/8"	0.56"	#2 Solid - #2 Stranded, #2 Solid	2	UL, cUL
EHL58C2Q	5/8"	0.56"	3/0 Stranded - 4/0 Stranded, #2 Solid	1	UL, cUL
EHL58C1V	5/8"	0.56"	#4 Stranded - #2 Stranded, 25 mm ² Stranded	1	cUL, UL

Catalog Number	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual Ø	Conductor Size	Number of Conductors	Certifications
EHL58C1K	5/8"	0.56"	#6 Solid - #4 Solid, 16 mm ² Stranded, #2 Solid	1	cUL, RUS, UL
EHL58C1K1K	5/8"	0.56"	#6 Solid - #4 Solid, 16 mm ² Stranded	2	UL, cUL
EHL34G1V	3/4"	0.73"	#4 Stranded - #2 Stranded, 25 mm ² Stranded, #2 Solid	1	UL, cUL
Ground Rod Type: Galvanized					
EHL34G1K	3/4"	0.73"	#6 Solid - #4 Solid, 16 mm ² Stranded, #2 Solid	1	cUL, UL
EHL58G2G	5/8"	0.63"	1/0 Stranded - 2/0 Stranded, #2 Solid	1	UL, cUL
EHL58G1V	5/8"	0.63"	#4 Stranded - #2 Stranded, 25 mm ² Stranded, #2 Solid	1	cUL, UL
EHL58G1K	5/8"	0.63"	#6 Solid - #4 Solid, 16 mm ² Stranded, #2 Solid	1	cUL, UL, RUS
EHL58G1K1K	5/8"	0.63"	#6 Solid - #4 Solid, 16 mm ² Stranded, #2 Solid	2	-

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