

# nVent ERICO Cadweld One Shot for Rail, Cable to Ground Rod



nVent ERICO Cadweld applications for railway properties utilize the nVent ERICO Cadweld Plus F80 and the nVent ERICO Cadweld F80 welding material alloys. nVent ERICO Cadweld exothermically welded connections are engineered to provide a permanent, molecular bond that will not loosen or corrode, enabling connection of dissimilar materials. The connections are designed to perform for the life of the conductor and/or installation. The nVent ERICO Cadweld connection has a current carrying capacity equal to or greater than that of the conductor and will withstand repeated fault currents without failing during operation. Once completed, installers can clearly ensure quality by visually inspecting the new connection.

## DIAGRAMS



## FEATURES

For use with rail applications

Single use ceramic mold which eliminates the need for a graphite mold and handle clamp/frame (T320 flint igniter not included)

Produces a permanent connection that will not loosen or corrode

Fits plain copper-bonded, threaded copper-bonded, full-size galvanized and stainless steel ground rods

Supplied with F80 welding material

NEC® compliant

## SPECIFICATIONS

Table 1/1

Catalog Number	Mold Family	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Connection, Solid	Connection, Stranded
----------------	-------------	------------------------------	-----------------------------	-------------------	----------------------

SBGR1141G	GR (ONE SHOT)	1/2"	11.2 - 12.88 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGT1141L	GT (ONE SHOT)	1/2"	11.2 - 12.88 mm		16 mm <sup>2</sup>
SBGT1161G	GT (ONE SHOT)	5/8"	11.2 - 12.88 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGT1161L	GT (ONE SHOT)	5/8"	11.2 - 12.88 mm		16 mm <sup>2</sup>
SBGT1162G	GT (ONE SHOT)	5/8"	11.2 - 12.88 mm	70 mm <sup>2</sup>	70 mm <sup>2</sup>
SBNT1141G	NT (ONE SHOT)	1/2"	11.2 - 12.88 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGR1161G	GR (ONE SHOT)	5/8"	14.1 - 16.13 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGR1161L	GR (ONE SHOT)	5/8"	14.1 - 16.13 mm		16 mm <sup>2</sup>
SBGR1162G	GR (ONE SHOT)	5/8"	14.1 - 16.13 mm	70 mm <sup>2</sup>	70 mm <sup>2</sup>
SBNT1161G	NT (ONE SHOT)	5/8"	14.1 - 16.13 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBNT1161L	NT (ONE SHOT)	5/8"	14.1 - 16.13 mm		16 mm <sup>2</sup>
SBNT1161V	NT (ONE SHOT)	5/8"	14.1 - 16.13 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>
SBNX1161G	NX (ONE SHOT)	5/8"	14.1 - 16.13 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBNX1161L	NX (ONE SHOT)	5/8"	14.1 - 16.13 mm		16 mm <sup>2</sup>
SBNX1161V	NX (ONE SHOT)	5/8"	14.1 - 16.13 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>
SBGR1161GPLUS	GR (ONE SHOT)	3/4"	14.0 - 16.1 mm	10 mm <sup>2</sup> , 16 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGR1161LPLUS	GR (ONE SHOT)	3/4"	14.0 - 16.1 mm		16 mm <sup>2</sup>
SBGT1161GPLUS	GT (ONE SHOT)	3/4"	14.0 - 16.1 mm	10 mm <sup>2</sup> , 16 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGT1161LPLUS	GT (ONE SHOT)	3/4"	14.0 - 16.1 mm		16 mm <sup>2</sup>

SBNT1161GPLUS	NT (ONE SHOT)	3/4"	14.0 - 16.1 mm	10 mm <sup>2</sup> , 16 mm <sup>2</sup>	10 mm <sup>2</sup>
SBNT1161LPLUS	NT (ONE SHOT)	3/4"	14.0 - 16.1 mm		16 mm <sup>2</sup>
SBNX1161GPLUS	NX (ONE SHOT)	3/4"	14.0 - 16.1 mm	10 mm <sup>2</sup> , 16 mm <sup>2</sup>	10 mm <sup>2</sup>
SBNX1161LPLUS	NX (ONE SHOT)	3/4"	14.0 - 16.1 mm		16 mm <sup>2</sup>
SBNX1161VPLUS	NX (ONE SHOT)	3/4"	14.0 - 16.1 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>
SBGR1181GPLUS	GR (ONE SHOT)	5/8"	17.0 - 19.43 mm	10 mm <sup>2</sup> , 16 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGR1181LPLUS	GR (ONE SHOT)	5/8"	17.0 - 19.43 mm		16 mm <sup>2</sup>
SBGT1181GPLUS	GT (ONE SHOT)	5/8"	17.0 - 19.43 mm	10 mm <sup>2</sup> , 16 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGT1181LPLUS	GT (ONE SHOT)	5/8"	17.0 - 19.43 mm		16 mm <sup>2</sup>
SBGT1181VPLUS	GT (ONE SHOT)	5/8"	17.0 - 19.43 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>
SBNT1181GPLUS	NT (ONE SHOT)	5/8"	17.0 - 19.43 mm	10 mm <sup>2</sup> , 16 mm <sup>2</sup>	10 mm <sup>2</sup>
SBNT1181LPLUS	NT (ONE SHOT)	5/8"	17.0 - 19.43 mm		16 mm <sup>2</sup>
SBNT1181VPLUS	NT (ONE SHOT)	5/8"	17.0 - 19.43 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>
SBNX1181GPLUS	NX (ONE SHOT)	5/8"	17.0 - 19.43 mm	10 mm <sup>2</sup> , 16 mm <sup>2</sup>	10 mm <sup>2</sup>
SBNX1181LPLUS	NX (ONE SHOT)	5/8"	17.0 - 19.43 mm		16 mm <sup>2</sup>
SBNX1181VPLUS	NX (ONE SHOT)	5/8"	17.0 - 19.43 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>
SBGR1181G	GR (ONE SHOT)	3/4"	17.1 - 19.43 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGR1181L	GR (ONE SHOT)	3/4"	17.1 - 19.43 mm		16 mm <sup>2</sup>
SBGR1181V	GR (ONE SHOT)	3/4"	17.1 - 19.43 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>

SBGR1182C	GR (ONE SHOT)	3/4"	17.1 - 19.43 mm		50 mm <sup>2</sup>
SBGR1182G	GR (ONE SHOT)	3/4"	17.1 - 19.43 mm	70 mm <sup>2</sup>	70 mm <sup>2</sup>
SBGR1182Q	GR (ONE SHOT)	3/4"	17.1 - 19.43 mm		95 mm <sup>2</sup>
SBGT1181G	GT (ONE SHOT)	3/4"	17.1 - 19.43 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBGT1181L	GT (ONE SHOT)	3/4"	17.1 - 19.43 mm		16 mm <sup>2</sup>
SBGT1181V	GT (ONE SHOT)	3/4"	17.1 - 19.43 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>
SBGT1182C	GT (ONE SHOT)	3/4"	17.1 - 19.43 mm		50 mm <sup>2</sup>
SBNT1181G	NT (ONE SHOT)	3/4"	17.1 - 19.43 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBNT1181L	NT (ONE SHOT)	3/4"	17.1 - 19.43 mm		16 mm <sup>2</sup>
SBNT1181V	NT (ONE SHOT)	3/4"	17.1 - 19.43 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>
SBNX1181G	NX (ONE SHOT)	3/4"	17.1 - 19.43 mm	10 mm <sup>2</sup>	10 mm <sup>2</sup>
SBNX1181L	NX (ONE SHOT)	3/4"	17.1 - 19.43 mm		16 mm <sup>2</sup>
SBNX1181V	NX (ONE SHOT)	3/4"	17.1 - 19.43 mm	50 mm <sup>2</sup>	25 mm <sup>2</sup> , 35 mm <sup>2</sup>

## ADDITIONAL PRODUCT DETAILS

A gap between conductors may be required. See mold tag for more information.

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

#### North America

+1.800.753.9221

Option 1 – Customer Care

Option 2 – Technical

Support

#### Europe

Netherlands:

+31 800-0200135

France:

+33 800 901 793

#### Europe

Germany:

800 1890272

Other Countries:

+31 13 5835404

#### APAC

Shanghai:

+ 86 21 2412 1618/19

Sydney:

+61 2 9751 8500



Our powerful portfolio of brands:

**CADDY**

**ERICO**

**HOFFMAN**

**ILSCO**

**SCHROFF**

**TRACHTE**