

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

# **Data Solutions**



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.

### **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) Mold Family	0.5in	11.18 – 12.88mm	10mm²	10mm²	
SBGT1141L	GT (ONCE SHOT) Mold Family	0.5in	11.18 – 12.88mm		16mm²	

Catalog Number	Mold Family	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Connection, Solid	Connection, Stranded
SBGT1161G	GT (ONCE SHOT) Mold Family	0.625in	11.18 – 12.88mm	10mm²	10mm²
SBGT1161L	GT (ONCE SHOT) Mold Family	0.625in	11.18 – 12.88mm		16mm²
SBGT1162G	GT (ONCE SHOT) Mold Family	0.625in	11.18 – 12.88mm	70mm²	70mm²
SBNT1141G	NT (ONE SHOT) Mold Family	0.5in	11.18 – 12.88mm	10mm²	10mm²
SBGR1161G	GR (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	10mm²	10mm²
SBGR1161GPLUS	GR (ONE SHOT) Mold Family	0.75in	14 – 16.1mm	10mm², 16mm²	10mm²
SBGR1161L	GR (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm		16mm²
SBGR1161LPLUS	GR (ONE SHOT) Mold Family	0.75in	14 – 16.1mm		16mm²
SBGR1162G	GR (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	70mm²	70mm²
SBGT1161GPLUS	GT (ONCE SHOT) Mold Family	0.75in	14 – 16.1mm	10mm², 16mm²	10mm²
SBGT1161LPLUS	GT (ONCE SHOT) Mold Family	0.75in	14 – 16.1mm		16mm²
SBNT1161G	NT (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	10mm²	10mm²
SBNT1161GPLUS	NT (ONE SHOT) Mold Family	0.75in	14 – 16.1mm	10mm², 16mm²	10mm²
SBNT1161L	NT (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm		16mm²
SBNT1161LPLUS	NT (ONE SHOT) Mold Family	0.75in	14 – 16.1mm		16mm²
SBNT1161V	NT (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	50mm²	25mm², 35mm²
SBNX1161G	NX (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	10mm²	10mm²
SBNX1161GPLUS	NX (ONE SHOT) Mold Family	0.75in	14 – 16.1mm	10mm², 16mm²	10mm²

Catalog Number	Mold Family	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Connection, Solid	Connection, Stranded
SBNX1161L	NX (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm		16mm²
SBNX1161LPLUS	NX (ONE SHOT) Mold Family	0.75in	14 – 16.1mm		16mm²
SBNX1161V	NX (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	50mm²	25mm², 35mm²
SBNX1161VPLUS	NX (ONE SHOT) Mold Family	0.75in	14 – 16.1mm	50mm²	25mm², 35mm²
SBGR1181GPLUS	GR (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	10mm², 16mm²	10mm²
SBGR1181LPLUS	GR (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm		16mm²
SBGT1181GPLUS	GT (ONCE SHOT) Mold Family	0.625in	17.01 – 19.43mm	10mm², 16mm²	10mm²
SBGT1181LPLUS	GT (ONCE SHOT) Mold Family	0.625in	17.01 – 19.43mm		16mm²
SBGT1181VPLUS	GT (ONCE SHOT) Mold Family	0.625in	17.01 – 19.43mm	50mm²	25mm², 35mm²
SBNT1181GPLUS	NT (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	10mm², 16mm²	10mm²
SBNT1181LPLUS	NT (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm		16mm²
SBNT1181VPLUS	NT (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	50mm²	25mm², 35mm²
SBNX1181GPLUS	NX (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	10mm², 16mm²	10mm²
SBNX1181LPLUS	NX (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm		16mm²
SBNX1181VPLUS	NX (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	50mm²	25mm², 35mm²
SBGR1181G	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	10mm²	10mm²
SBGR1181L	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm		16mm²
SBGR1181V	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	50mm²	25mm², 35mm²

Catalog Number	Mold Family	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Connection, Solid	Connection, Stranded
SBGR1182C	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm		50mm²
SBGR1182G	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	70mm²	70mm²
SBGR1182Q	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm		95mm²
SBGT1181G	GT (ONCE SHOT) Mold Family	0.75in	17.09 – 19.43mm	10mm²	10mm²
SBGT1181L	GT (ONCE SHOT) Mold Family	0.75in	17.09 – 19.43mm		16mm²
SBGT1181V	GT (ONCE SHOT) Mold Family	0.75in	17.09 – 19.43mm	50mm²	25mm², 35mm²
SBGT1182C	GT (ONCE SHOT) Mold Family	0.75in	17.09 – 19.43mm		50mm²
SBNT1181G	NT (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	10mm²	10mm²
SBNT1181L	NT (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm		16mm²
SBNT1181V	NT (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	50mm²	25mm², 35mm²
SBNX1181G	NX (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	10mm²	10mm²
SBNX1181L	NX (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm		16mm²
SBNX1181V	NX (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	50mm²	25mm², 35mm²

## 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 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.



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