

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	10mm ²	10mm ²
SBGT1141L	GT (ONCE SHOT) Mold Family	0.5in	11.18 – 12.88mm		16mm ²

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	10mm ²	10mm ²
SBGT1161L	GT (ONCE SHOT) Mold Family	0.625in	11.18 – 12.88mm		16mm ²
SBGT1162G	GT (ONCE SHOT) Mold Family	0.625in	11.18 – 12.88mm	70mm ²	70mm ²
SBNT1141G	NT (ONE SHOT) Mold Family	0.5in	11.18 – 12.88mm	10mm ²	10mm ²
SBGR1161G	GR (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	10mm ²	10mm ²
SBGR1161GPLUS	GR (ONE SHOT) Mold Family	0.75in	14 – 16.1mm	10mm ² , 16mm ²	10mm ²
SBGR1161L	GR (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm		16mm ²
SBGR1161LPLUS	GR (ONE SHOT) Mold Family	0.75in	14 – 16.1mm		16mm ²
SBGR1162G	GR (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	70mm ²	70mm ²
SBGT1161GPLUS	GT (ONCE SHOT) Mold Family	0.75in	14 – 16.1mm	10mm ² , 16mm ²	10mm ²
SBGT1161LPLUS	GT (ONCE SHOT) Mold Family	0.75in	14 – 16.1mm		16mm ²
SBNT1161G	NT (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	10mm ²	10mm ²
SBNT1161GPLUS	NT (ONE SHOT) Mold Family	0.75in	14 – 16.1mm	10mm ² , 16mm ²	10mm ²
SBNT1161L	NT (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm		16mm ²
SBNT1161LPLUS	NT (ONE SHOT) Mold Family	0.75in	14 – 16.1mm		16mm ²
SBNT1161V	NT (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	50mm ²	25mm ² , 35mm ²
SBNX1161G	NX (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	10mm ²	10mm ²
SBNX1161GPLUS	NX (ONE SHOT) Mold Family	0.75in	14 – 16.1mm	10mm ² , 16mm ²	10mm ²

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		16mm ²
SBNX1161LPLUS	NX (ONE SHOT) Mold Family	0.75in	14 – 16.1mm		16mm ²
SBNX1161V	NX (ONE SHOT) Mold Family	0.625in	14.1 – 16.13mm	50mm ²	25mm ² , 35mm ²
SBNX1161VPLUS	NX (ONE SHOT) Mold Family	0.75in	14 – 16.1mm	50mm ²	25mm ² , 35mm ²
SBGR1181GPLUS	GR (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	10mm ² , 16mm ²	10mm ²
SBGR1181LPLUS	GR (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm		16mm ²
SBGT1181GPLUS	GT (ONCE SHOT) Mold Family	0.625in	17.01 – 19.43mm	10mm ² , 16mm ²	10mm ²
SBGT1181LPLUS	GT (ONCE SHOT) Mold Family	0.625in	17.01 – 19.43mm		16mm ²
SBGT1181VPLUS	GT (ONCE SHOT) Mold Family	0.625in	17.01 – 19.43mm	50mm ²	25mm ² , 35mm ²
SBNT1181GPLUS	NT (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	10mm ² , 16mm ²	10mm ²
SBNT1181LPLUS	NT (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm		16mm ²
SBNT1181VPLUS	NT (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	50mm ²	25mm ² , 35mm ²
SBNX1181GPLUS	NX (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	10mm ² , 16mm ²	10mm ²
SBNX1181LPLUS	NX (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm		16mm ²
SBNX1181VPLUS	NX (ONE SHOT) Mold Family	0.625in	17.01 – 19.43mm	50mm ²	25mm ² , 35mm ²
SBGR1181G	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	10mm ²	10mm ²
SBGR1181L	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm		16mm ²
SBGR1181V	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	50mm ²	25mm ² , 35mm ²

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		50mm ²
SBGR1182G	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	70mm ²	70mm ²
SBGR1182Q	GR (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm		95mm ²
SBGT1181G	GT (ONCE SHOT) Mold Family	0.75in	17.09 – 19.43mm	10mm ²	10mm ²
SBGT1181L	GT (ONCE SHOT) Mold Family	0.75in	17.09 – 19.43mm		16mm ²
SBGT1181V	GT (ONCE SHOT) Mold Family	0.75in	17.09 – 19.43mm	50mm ²	25mm ² , 35mm ²
SBGT1182C	GT (ONCE SHOT) Mold Family	0.75in	17.09 – 19.43mm		50mm ²
SBNT1181G	NT (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	10mm ²	10mm ²
SBNT1181L	NT (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm		16mm ²
SBNT1181V	NT (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	50mm ²	25mm ² , 35mm ²
SBNX1181G	NX (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	10mm ²	10mm ²
SBNX1181L	NX (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm		16mm ²
SBNX1181V	NX (ONE SHOT) Mold Family	0.75in	17.09 – 19.43mm	50mm ²	25mm ² , 35mm ²

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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