

GROUNDING CONNECTION SPECIFICATION

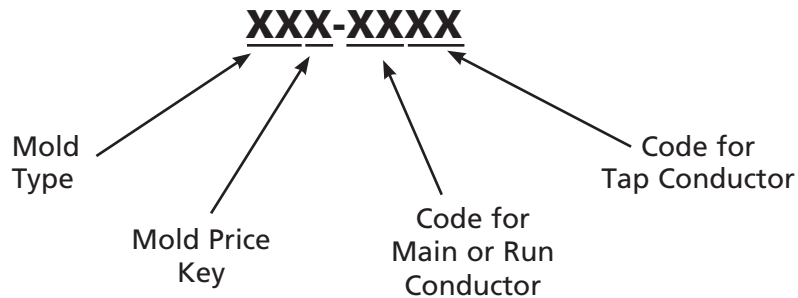
All grounding connections of copper to copper and copper to steel conductors of #8 and larger sized conductors shall be CADWELD exothermic welded connections. Conductors spliced with a CADWELD exothermic welded connection shall be considered as a continuous conductor, as stated in the notes accompanying NEC 250-50, 250-64, 250-68, 250-70 and IEEE Std 80 – 1986.

All grounding connections to equipment shall use bolted lugs. When the conductor is #8 and larger, the lug shall be joined to the conductor by the CADWELD process, otherwise use listed compression lugs which meet IEEE Std 837 – 1989.

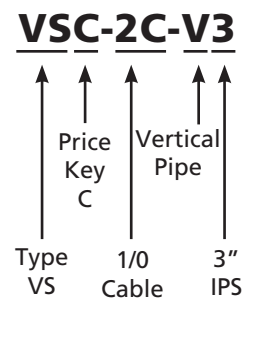
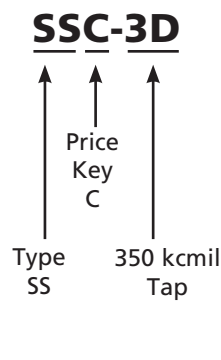
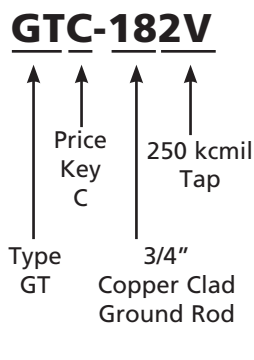
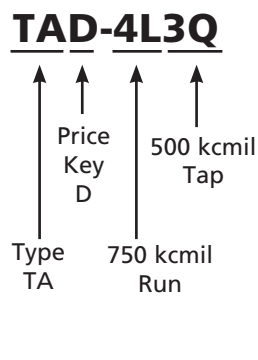
THE CADWELD MOLD NUMBERING SYSTEM

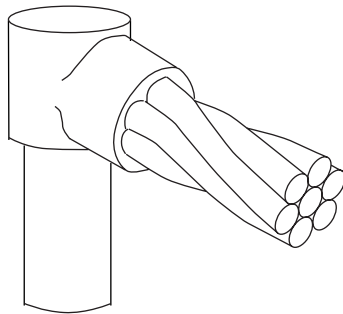
The CADWELD Mold Part Number gives, in code, the complete information of the mold.

– Type of connection, mold price key, and conductor size(s)



EXAMPLES





GR

CABLE TO GROUND ROD

- Single cable to top of ground rod. Concentric strand copper cable unless otherwise noted. For copper clad, galvanized, stainless clad or stainless steel ground rods.
- **Bold letter** in mold part number is the price key.

REQUIRED TOOLS

Handle Clamps L160 for **C** Price Key Molds

*Clamps are included with **T** and **P** Price Key Molds*

Flint Ignitor T320 (Included with Handle Clamp or frame but also available separately)

SUGGESTED TOOLS

Cable Cleaning Brush	T313 or T314
Slag Removal Spade	B136A or B136B
Mold Cleaning Brush	T394
File	T329
Cable Clamp	B265
Torch Head	T111

ACCESSORIES

See Section A

GROUND ROD SIZE	CABLE SIZE	MOLD PART NUMBER			WELD METAL
		Steel	Copper Clad Plain (unthreaded)	Copper Clad Sectional (with 9/16" threads)	
1/2"	6	GRT-14C1H	GRT-14A1H	GRT-14B1H	25
	6 SOL	GRT-14C1G	GRT-14A1G	GRT-14B1G	25
	4	GRT-14C1L	GRT-14A1L	GRT-14B1L	25
	4 SOL	GRT-14C1K	GRT-14A1K	GRT-14B1K	25

		Steel or Copper Clad Sectional (with 9/16" threads)	Copper Clad Plain (unthreaded)	Copper Clad Sectional (with 1/2" threads)	
1/2"	2	GRC-141V	GRC-151V	GRC-131V	65
	1	GRC-141Y	GRC-151Y	GRC-131Y	65
	1/0	GRC-142C	GRC-152C	GRC-132C	90
	1/0 SOL	GRC-142B	GRC-152B	GRC-132B	90
	2/0	GRC-142G	GRC-152G	GRC-132G	90
	3/0	GRC-142L	GRC-152L	GRC-132L	90
	4/0	GRC-142Q	GRC-152Q	GRC-132Q	90
	250	GRC-142V	GRC-152V	GRC-132V	90
	300	GRC-143A	GRC-153A	GRC-133A	90

GROUND ROD SIZE	CABLE SIZE	MOLD PART NUMBER		WELD METAL
		Copper Clad Plain (unthreaded)	Steel or Copper Clad Sectional (threaded)	
5/8"	6	GRT-161H	GRT-311H	32
	6 SOL	GRT-161G	GRT-311G	32
	4	GRT-161L	GRT-311L	32
	4 SOL	GRT-161K	GRT-311K	32
		Copper Clad Sectional (threaded) or Plain	Steel	
5/8"	2	GRC-161V	GRC-311V	65
	1	GRC-161Y	GRC-311Y	65
	1/0	GRC-162C	GRC-312C	90
	1/0 SOL	GRC-162B	GRC-312B	90
	2/0	GRC-162G	GRC-312G	90
	3/0	GRC-162L	GRC-312L	90
	4/0	GRC-162Q	GRC-312Q	90
	250	GRC-162V	GRC-312V	90
	300	GRC-163A	GRC-313A	115
	350	GRC-163D	GRC-313D	115
	500	GRC-163Q	GRC-313Q	150
			Copper Clad Plain (unthreaded)	Steel or Copper Clad Sectional (threaded)
3/4"	6	GRT-181H	GRT-331H	32
	6SOL	GRT-181G	GRT-331G	32
	4	GRP-181L	GRP-331L	45
	4 SOL	GRP-181K	GRP-331K	45
		Copper Clad Sectional (threaded) or Plain	Steel	
3/4"	2	GRC-181V	GRC-331V	90
	1	GRC-181Y	GRC-331Y	90
	1/0	GRC-182C	GRC-332C	90
	1/0 SOL	GRC-182B	GRC-332B	90
	2/0	GRC-182G	GRC-332G	90
	3/0	GRC-182L	GRC-332L	90
	4/0	GRC-182Q	GRC-332Q	90
	250	GRC-182V	GRC-332V	90
	300	GRC-183A	GRC-333A	115
	350	GRC-183D	GRC-333D	115
	500	GRC-183Q	GRC-333Q	150
	1"	CONTACT PENTAIR FOR ORDERING INFORMATION		