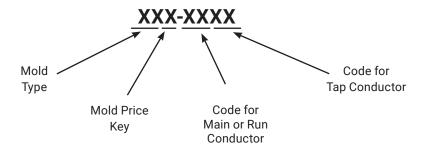
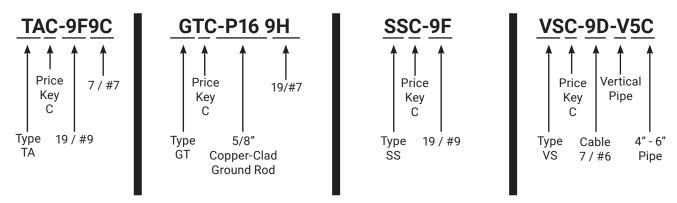
The Cadweld Mold Numbering System

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



Certain tools may be <u>required</u> for various connections.

If required, these tools are listed on the same page as the connection and in Section A.

- · Some tools listed in Section A can save you a lot of time.
- · Also refer to A9E, Contractor Tips, to make your job easier, and learn about labor saving ideas.

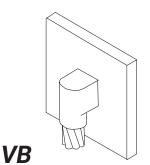
REQUIRED TOOLS SUMMARY

Required tools are listed with each mold. For your reference, handle clamps and/or frame are summarized below.

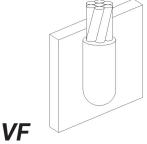
MOLD	REQUIRED
A*	Includes frame with handle
C, Q & R	Requires L160
D, F & Z	Requires L159
E*	Includes frame but also requires L160
J*	Includes frame but also requires L159
K* M* & \/*	Includes frame with handles

^{*} To order mold only - without handles or frame - add suffix "M" to mold part number.

FOR STRANDED COPPER-CLAD STEEL CONDUCTORS



Cable down to vertical steel surface



Cable up to vertical steel surface

VERTICAL STEEL SURFACE

- Connection of vertical cable to vertical flat steel surface or to side of vertical or horizontal steel pipe.
- · A test weld should be made to check the possibility of burn through on thin sections or thin wall pipe.
- Cable to steel pipe. Add pipe orientation and nominal pipe size to flat surface mold part number. Examples: VFC9CV6, 7/#7 conductor to vertical 6" pipe VFC9AH4, 7/#10 condctor to horizontal 4" pipe.
- Concentric stranded copper cable listed.
- Bold letter in mold part number is the price key.

REQUIRED TOOLS

Handle Clamps	for C Price Key Molds for D Price Key Molds	Part No. L160 L159
Cadweld Plus Co	PLUSCU	
Flint Ignitor	T320	

SUGGESTED TOOLS

Cable Cleaning Brush Slag Removal Spade	T313 or T314 B136A or B136B
Mold Cleaning Brush	T394
Rasp	T321
Torch Head	T111

ACCESSORIES

See Section A

TYPE VB

CABLE SIZE (sq mm)	MOLD PART NO.	WELDING MATERIAL ¹
7/#10	VB C 9A	65
7/#8	VB C 9B	115
7/#7	VB C 9C	115
7/#6	VB C 9D	150
7/#5	VB C 9E	150
19/#9	VB C 9F	200
19/#8	VB C 9G	200
19/#7	VB C 9H	250
19/#6	VB R 9J	2-150

¹ For Cadweld Plus add suffix "PLUSF20" (refer page 44)

TYPE VF

CABLE SIZE (sq mm)	MOLD PART NO.	WELDING MATERIAL ¹
7/#10	VF C 9A	90
7/#8	VF C 9B	150
7/#7	VF C 9C	150
7/#6	VF R 9D	200
7/#5	VF R 9E	200
19/#9	VF R 9F	200
19/#8	VF R 9G	250
19/#7	VF F 9H	2-150
19/#6	VF F 9J	2-200
,		

Technical Information

BARE CLASS A, B, AND C CONCENTRIC STRANDED CONDUCTOR

Based on A.S.T.M. Standard Specifications.

Cadweld	Size in	Size	Conductor	NUMBER OF WIRES / Strand Dia. Inches				
Cable code	Circular mils	A.W.G.	Dia. In.	7	19	37	61	91
4Y 4Q 4L 4G	1,000,000 800,000 750,000 700,000		1.152 1.031 .998 .964			.1644* .1470* .1424* .1375*	.1280 .1145 .1109 .1071	.1048 .0938 .0908 .0877
3X 3Q 3H	600,000 500,000 400,000		.893 .813 .728		.1622* .1451	.1273 .1162 .1040	.0992 .0905 .0810	.0812
3D 3A 2V	350,000 300,000 250,000		.681 .630 .575		.1357 .1257 .1147	.0973 .0900 .0822	.0757 .0701 .0640	
2Q 2L 2G	211,600 167,800 133,100	4/0 3/0 2/0	.528 .470 .419	.1739 .1548 .1379	.1055 .0940 .0837	.0756 .0673 .0600		
2C 1Y 1V	105,500 83,690 66,370	1/0 1 2	.373 .332 .292	.1228 .1093 .0974	.0745 .0664 .0591	.0534 .0476		
1Q 1L 1H	52,630 41,740 26,240	3 4 6	.260 .232 .184	.0867 .0772 .0612	.0526 .0469 .0372			
1E 1B	16,510 10,380 6,530 4,110	8 10 12 14	.146 .116 .092 .073	.0486 .0385 .0305 .0242	.0295 .0234 .0185 .0147			

^{*} Class AA

BARE SOLID COPPER WIRE

Based on A.S.T.M. Standard Specifications

Cadweld Cable code	Size A.W.G.	Cross Sectional Area Circular Mils	Wire Dia. In.
2P	4/0	211,600	.4600
2K	3/0	167,800	.4096
2F	2/0	133,100	.3648
2B	1/0	105,500	.3249
1X	1	83,690	.2893
1T	2	66,370	.2576
1P	3	52,630	.2294
1K	4	41,740	.2043
1G	6	26,250	.1620
1D	8	16,510	.1285
1A	10	10,380	.1019
	12	6,530	.0808
	14	4,110	.0064