



CABLE TO REBAR

- Tee connection horizontal cable tap to vertical rebar.
- Rebar material characteristics and location of weld must be considered when selecting connections to rebar.
- Concentric stranded copper cable is listed.
- **Bold letter** in mold part number is the price key.

REQUIRED TOOLS

Handle Clamps **L160** for **C** and **E** Price Key Molds
Frame included with **E** Price Key Molds

Flint Ignitor **T320** (Included with handle clamp and frames but also available separately)

Packing One required for each connection - see tables which follow

SUGGESTED TOOLS

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

ACCESSORIES

See Section A

REBAR SIZE	CABLE SIZE	MOLD PART NO.	WELD METAL	PACKING PART NO.
3	6*	RJC -511H	45	B-140A
	4	RJC -511L	65	B-140A
	2 SOL	RJC -511T	65	B-140A
	2	RJC -511V	65	B-140A
	1	RJC -511Y	90	B-140A
	1/0	RJC -512C	115	B-140A
	2/0	RJC -512G	115	B-140A
	3/0	RJC -512L	150	B-140A
	4/0	RJC -512Q	150	B-140A
	4	6*	RJC -521H	45
4		RJC -521L	65	B-140A
2 SOL		RJC -521T	65	B-140A
2		RJC -521V	65	B-140A
1		RJC -521Y	90	B-140A
1/0		RJC -522C	115	B-140A
2/0		RJC -522G	115	B-140A
3/0		RJC -522L	150	B-140A
4/0		RJC -522Q	150	B-140A

*Requires B112 sleeve (2 per connection)

REBAR SIZE	CABLE SIZE	MOLD PART NO.	WELD METAL	PACKING PART NO.
5	6*	RJC -531H	45	B-140A
	4	RJC -531L	65	B-140A
	2 SOL	RJC -531T	65	B-140A
	2	RJC -531V	65	B-140A
	1	RJC -531Y	90	B-140A
	1/0	RJC -532C	115	B-140A
	2/0	RJC -532G	115	B-140A
	3/0	RJC -532L	150	B-140A
	4/0	RJC -532Q	150	B-140A
	6	6*	RJC -541H	45
4		RJC -541L	65	B-140A
2 SOL		RJC -541T	65	B-140A
2		RJC -541V	65	B-140A
1		RJC -541Y	90	B-140B
1/0		RJC -542C	115	B-140B
2/0		RJC -542G	115	B-140B
3/0		RJC -542L	150	B-140B
4/0		RJC -542Q	150	B-140B

*Requires B112 sleeve (2 per connection)



BARE CLASS A, B, AND C CONCENTRIC STRANDED CONDUCTOR

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

Size in Circular mils	Size A.W.G.	Conductor Dia. In.	NUMBER OF WIRES					CADWELD Cable code
			7	19	37	61	91	
1,000,000		1.152			.1644*	.1280	.1048	4Y
800,000		1.031			.1470*	.1145	.0938	4Q
750,000		.998			.1424*	.1109	.0908	4L
700,000		.964			.1375*	.1071	.0877	4G
600,000		.893			.1273	.0992	.0812	3X
500,000		.813		.1622*	.1162	.0905		3Q
400,000		.728		.1451	.1040	.0810		3H
350,000		.681		.1357	.0973	.0757		3D
300,000		.630		.1257	.0900	.0701		3A
250,000		.575		.1147	.0822	.0640		2V
211,600	4/0	.528	.1739	.1055	.0756			2Q
167,800	3/0	.470	.1548	.0940	.0673			2L
133,100	2/0	.419	.1379	.0837	.0600			2G
105,500	1/0	.373	.1228	.0745	.0534			2C
83,690	1	.332	.1093	.0664	.0476			1Y
66,370	2	.292	.0974	.0591				1V
52,630	3	.260	.0867	.0526				1Q
41,740	4	.232	.0772	.0469				1L
26,240	6	.184	.0612	.0372				1H
16,510	8	.146	.0486	.0295				1E
10,380	10	.116	.0385	.0234				1B
6,530	12	.0915	.0305	.0185				
4,110	14	.0726	.0242	.0147				

*Class AA



RECTANGULAR COPPER BUSBAR

Thickness Inches	Width Inches	Circular Mil Size	Weight Lbs. per Foot	CADWELD Bus Bar Code
1/8	1	159,200	.484	CE
	1-1/2	238,700	.726	CG
	2	318,300	.969	CH
3/16	1	238,700	.727	DE
	2	477,500	1.45	DH
1/4	1	318,300	.969	EE
	1-1/2	477,500	1.45	EG
	2	636,600	1.94	EH
	3	954,900	2.91	EK
	4	1,273,000	3.88	EM
3/8	1	477,500	1.45	GE
	1-1/2	716,200	2.18	GG
	2	954,900	2.91	GH
	3	1,432,000	4.36	GK
	4	1,910,000	5.81	GM
1/2	2	1,273,000	3.88	JH
	3	1,910,000	5.81	JK
	4	2,546,000	7.75	JM

REINFORCING BARS

USEFUL CONVERSIONS	
Area	
Square Inches x 1273 = kcmil	
Square Millimeters x 1.974 = kcmil	
kcmil x 0.5067 = Square Millimeters	
Density	
Copper:	0.323lb/in ³
Steel:	0.283lb/in ³

Rebar Sizes	NOMINAL DIMENSIONS Dia. Inches	Cross-Sectional Area - Sq. Inches	Equivalent Copper Sizes*	CADWELD Rebar Code
3	.375	.11	9AWG	51
4	.500	.20	7	52
5	.625	.31	5	53
6	.750	.44	3	54
7	.875	.60	2	55
8	1.000	.79	1	56
9	1.128	1.00	1/0	57
10	1.270	1.27	2/0	58
11	1.410	1.56	3/0	59
14	1.693	2.25	250 kcmil	60
18	2.257	4.00	450	61

* Based on 8% IACS, rounded to the next higher commercial copper size.



OTHER INFORMATION

Certain tools may be required 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.

Prices for standard products are shown in Price List G285P

For other CADWELD literature, videos and software, See Section C.

For all your connection needs — we're only a phone call away.

Phone: 800-677-9089

Fax: 800-677-8131

or call your local CADWELD distributor, agent, or CADWELD Regional Sales Manager

REQUIRED TOOLS SUMMARY:

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

<u>MOLD</u>	<u>REQUIRED</u>
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* & V*	Includes frame with handles

* To order mold only – without handles or frame – add suffix “M” to mold part number.

