

# ERICO CU-BOND COMPOSITE CABLE

COPPER BONDED STEEL & COPPER



# ERICO CU-BOND Composite Cable

## Features

- Outer strands comprised of tinned copper bonded steel for corrosion resistance and theft deterrence
- Inner copper stranding is tinned for superior corrosion resistance
- Copper stranding inside of conductor provides increased conductivity and conductor flexibility
- Copper strands are hidden by outer tinned copper bonded steel strands
- Available in three sizes / configurations with electrical equivalency to 4, 2/0 and 4/0 AWG copper
- Suitable for direct burial applications
- More flexible and easier to work with than copper clad steel conductors



ERICO CU-BOND is a bare concentric stranded conductor that consists of peripheral tinned copper plated steel which protects and conceals the internal copper stranding.

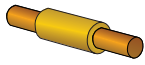
This conductor is ideal for exposed electrical grounding applications where copper theft may occur. The conductor is difficult to cut with hand tools and the outer stranding is magnetic, which further deters thieves looking for copper.

The CC5A05CB (19 strand) is electrically equivalent to a 4 AWG (16mm<sup>2</sup>), the CC5A20C is electrically equivalent to a 2/0 AWG (50mm<sup>2</sup>) and the CC5A40CB is electrically equivalent to a 4/0 AWG (95mm<sup>2</sup>). These conductors are ideal for transmission tower, distribution pole and a wide range of above and below grade grounding applications.

# ERICO CU-BOND Composite Cable

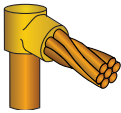
## ERICO CADWELD conductor codes

Part Number	CC5A05CB	CC5A20CB	CC5A40CB
Conductor Code	S1	S5	S7



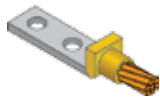
### SS Type Connections

Part Number	ERICO CADWELD Welding Material	ERICO CADWELD PLUS Welding Material	ERICO CADWELD Connection Type	Ground Rod or Lug	Handle Clamp
SSCS1	32	32PLUSF20	SS	T1	L160
SSCS5	90	90PLUSF20	SS	T2	L160
SSCS7	150	150PLUSF20	SS	T3	L160



### GR Type Connections

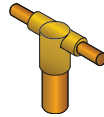
Part Number	ERICO CADWELD Welding Material	ERICO CADWELD PLUS Welding Material	ERICO CADWELD Connection Type	Ground Rod Or Lug	Handle Clamp
GRC16S1	65	65PLUSF20	GR	Nominal 5/8" copper-bonded	L160
GRC16S5	90	90PLUSF20	GR	Nominal 5/8" copper-bonded	L160
GRC16S7	115	115PLUSF20	GR	Nominal 5/8" copper-bonded	L160
GRC18S1	90	90PLUSF20	GR	Nominal 3/4" copper-bonded	L160
GRC18S5	90	90PLUSF20	GR	Nominal 3/4" copper-bonded	L160
GRC18S7	115	115PLUSF20	GR	Nominal 3/4" copper-bonded	L160



### GL Type Connections

Part Number	ERICO CADWELD Welding Material	ERICO CADWELD PLUS Welding Material	ERICO CADWELD Connection Type	Ground Rod or Lug	Handle Clamp
GLCCES1	32	32PLUSF20	GL	B121CE or B122CE	L160
GLCCES5	45	45PLUSF20	GL	B121CE or B122CE	L160
GLCCES7	65	65PLUSF20	GL	B121DE or B122DE	L160

Please contact your Pentair Customer Service Representative for other ERICO CADWELD configurations.



### GT Type Connections

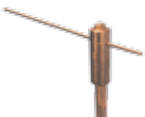
Part Number	ERICO CADWELD Welding Material	ERICO CADWELD PLUS Welding Material	ERICO CADWELD Connection Type	Ground Rod or Lug	Handle Clamp
GTC16S1	90	90PLUSF20	GT	Nominal 5/8" copper-bonded	L160
GTC16S5	115	115PLUSF20	GT	Nominal 5/8" copper-bonded	L160
GTC16S7	200	200PLUSF20	GT	Nominal 5/8" copper-bonded	L160
GTC18S1	90	90PLUSF20	GT	Nominal 3/4" copper-bonded	L160
GTC18S5	115	115PLUSF20	GT	Nominal 3/4" copper-bonded	L160
GTC18S7	200	200PLUSF20	GT	Nominal 3/4" copper-bonded	L160



### LA Type Connections


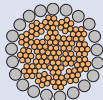
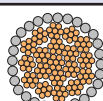
Part Number	ERICO CADWELD Welding Material	ERICO CADWELD PLUS Welding Material	ERICO CADWELD Connection Type	Ground Rod or Lug	Handle Clamp
LACS1CE	45	45PLUSF20	LA	B101CEOL or B102CEOL	L160
LACS5CE	65	65PLUSF20	LA	B101CEOL or B102CEOL	L160
LACS7DE	90	90PLUSF20	LA	B101DEOL or B102DEOL	L160

## ERICO HAMMERLOCK



Part Number	Conductor Size	Ground Rod
EHL58C2G	CC5A05CB	Nominal 5/8" copper-bonded
EHL34C2G	CC5A05CB	Nominal 3/4" copper-bonded

# ERICO CU-BOND Composite Cable

Part Number (Reel)	Stranding	Cross Section	Outside Diameter	Fusing Capacity Equivalency	Length of Conductor on Reel	Weight*
CC5A05CB	(3) Tinned Copper, (16) Tinned Plated Copper Bonded Steel		0.320" (0.813 cm)	4 AWG (16 mm <sup>2</sup> )	250 ft (76.2 m)	61 lbs (28 kg)
CC5A20CB	(154) Strands – (133) Tinned Copper, (21) Tinned Plated Copper Bonded		0.524" (1.33 cm)	2/0 AWG (50 mm <sup>2</sup> )	200 ft (61.0 m)	113 lbs (51 kg)
CC5A40CB	(161) Strands – (133) Tinned Copper, (27) Tinned Plated Copper Bonded Steel		0.651" (1.65 cm)	4/0 AWG (95 mm <sup>2</sup> )	200 ft (61.0 m)	173 lbs (79 kg)

\* Weight does not include reel

CABLE	Conductor Size		Cross Sectional Area (mm <sup>2</sup> )
	Diameter (Inches)	Diameter (Millimeters)	
35 mm <sup>2</sup>	0.305	7.8	35.0
<b>CCA05CB</b>	<b>0.320</b>	<b>8.1</b>	<b>33.2 (Steel) / 6.8 (Copper)</b>
1 AWG	0.332	8.4	42.4
50 mm <sup>2</sup>	0.365	9.3	50.0
95 mm <sup>2</sup>	0.505	12.8	95.0
<b>CC5A20CB</b>	<b>0.524</b>	<b>13.3</b>	<b>43.6 (Steel) / 19.9 (Copper)</b>
4/0 AWG	0.528	13.4	107.2
120 mm <sup>2</sup>	0.567	14.4	120.0
300 kcmil	0.630	16.0	152.1
150 mm <sup>2</sup>	0.630	16.0	150.0
<b>CC5A40CB</b>	<b>0.651</b>	<b>10.5</b>	<b>56.0 (Steel) / 86.9 (Copper)</b>
350 kcmil	0.681	17.3	177.3
185 mm <sup>2</sup>	0.700	17.8	185.0

#### WARNING

Pentair products shall be installed and used only as indicated in Pentair's product instruction sheets and training materials. Instruction sheets are available at [www.erico.pentair.com](http://www.erico.pentair.com) and from your Pentair customer service representative. Improper installation, misuse, misapplication or other failure to completely follow Pentair's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

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