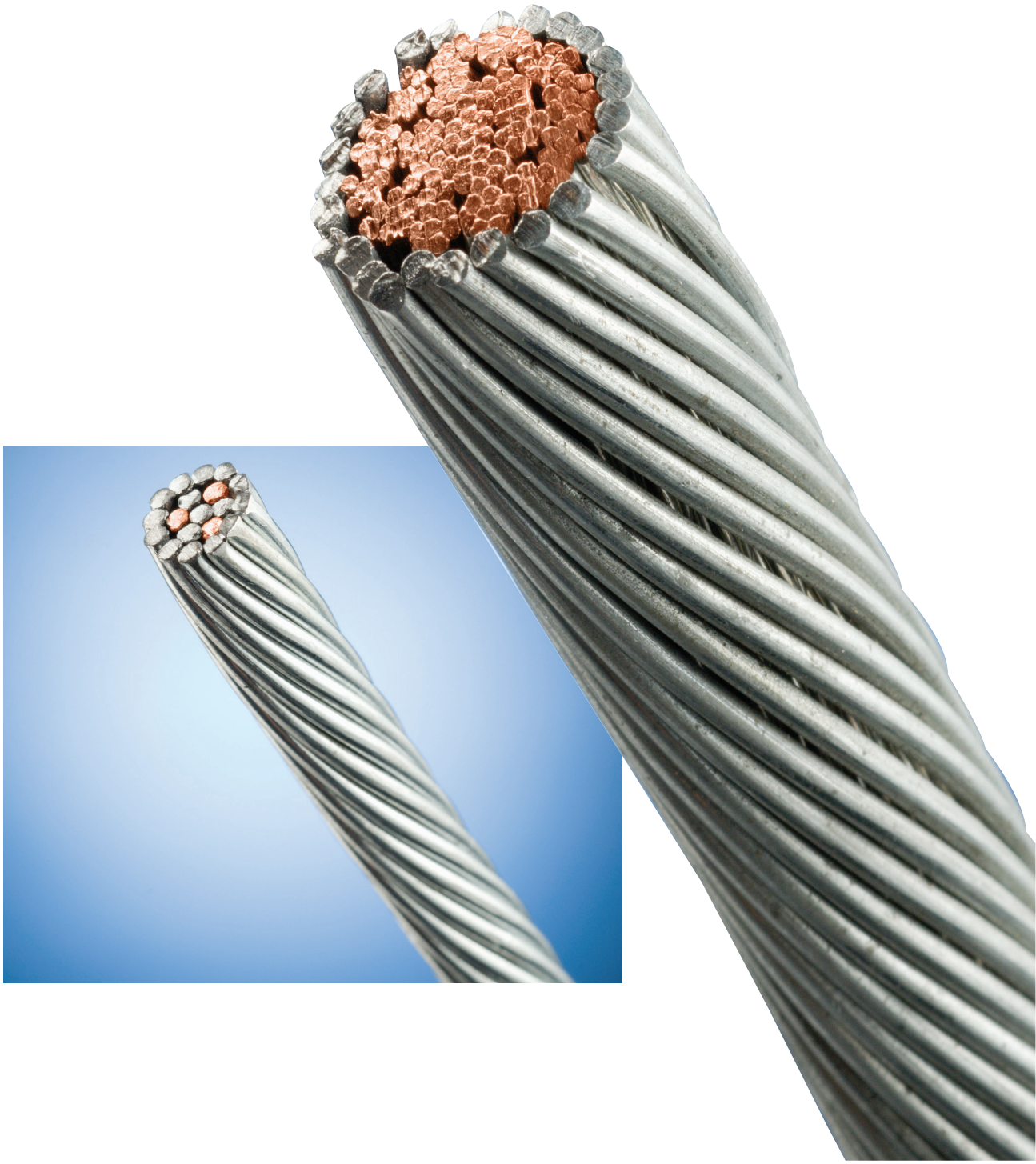
NVENT ERICO CU-BOND COMPOSITE CABLE
COPPER BONDED STEEL & COPPER



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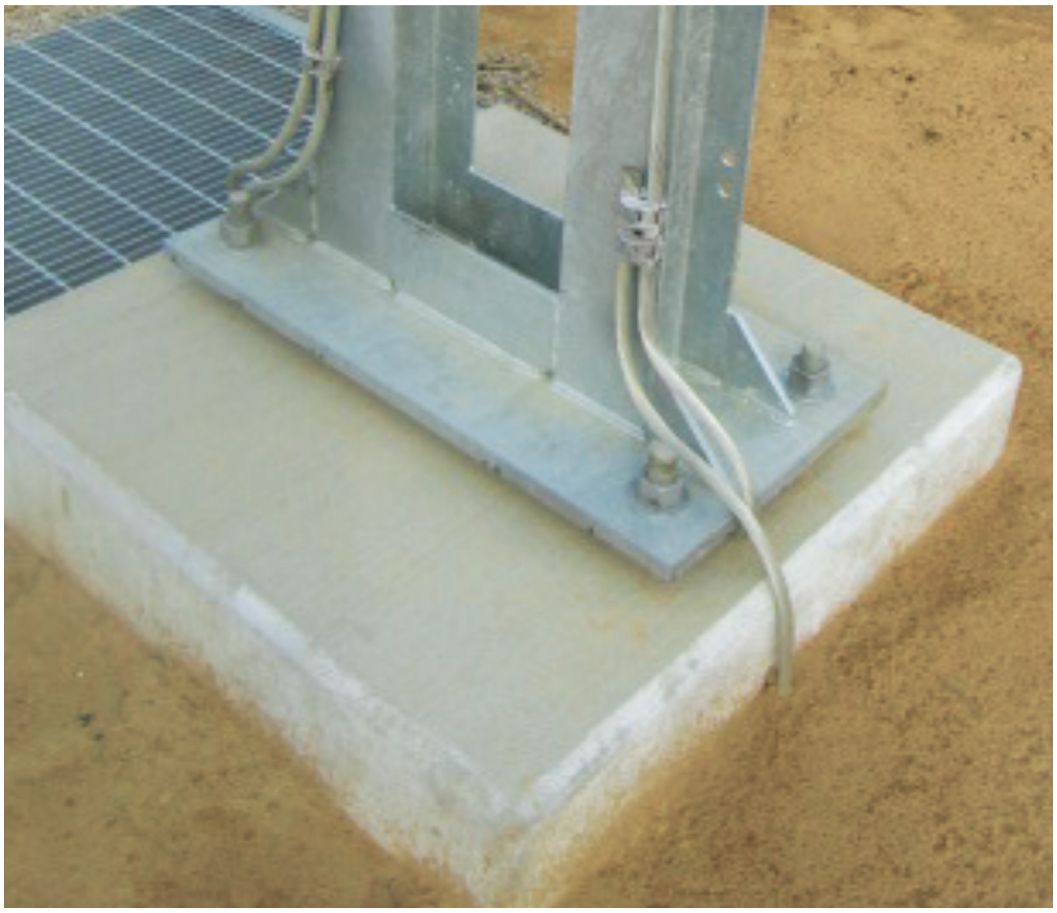


Cu-Bond Composite Cable Ground Riser

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

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 (16mm2), the CC5A20C is electrically equivalent to a 2/0 AWG (50mm2) and the CC5A40CB is electrically equivalent to a 4/0 AWG (95mm2). These conductors are ideal for transmission tower, distribution pole and a wide range of above and below grade grounding applications.

CU-BOND COMPOSITE CABLE

NVENT ERICO CADWELD CONDUCTOR CODES

Part Number	CC5A05CB	CC5A20CB	CC5A40CB
Conductor Code	S1	S5	S7

SS TYPE CONNECTIONS

Part Number	Cadweld Welding Material	Cadweld Plus Welding Material	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	Cadweld Welding Material	Cadweld Plus Welding Material	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	Cadweld Welding Material	Cadweld Plus Welding Material	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 nVent Customer Service Representative for other configurations.

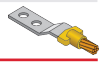
NVENT ERICO HAMMERLOCK

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

GT TYPE CONNECTIONS

Part Number	Cadweld Welding Material	Cadweld Plus Welding Material	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	Cadweld Welding Material	Cadweld Plus Welding Material	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

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 mm²)	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 mm²)	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 mm²)	200 ft (61.0 m)	173 lbs (79 kg)

* Weight does not include reel

CABLE	Diameter (Inches)	Conductor Size Diameter (Millimeters)	Cross Sectional Area (mm2)
35 mm²	0.305	7.8	35.0
CCA05CB	0.320	8.1	33.2 (Steel) / 6.8 (Copper)
1 AWG	0.332	8.4	42.4
50 mm²	0.365	9.3	50.0
95 mm²	0.505	12.8	95.0
CC5A20CB	0.524	13.3	43.6 (Steel) / 19.9 (Copper)
4/0 AWG	0.528	13.4	107.2
120 mm²	0.567	14.4	120.0
300 kcmil	0.630	16.0	152.1
150 mm²	0.630	16.0	150.0
CC5A40CB	0.651	10.5	56.0 (Steel) / 86.9 (Copper)
350 kcmil	0.681	17.3	177.3
185 mm²	0.700	17.8	185.0

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CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER

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