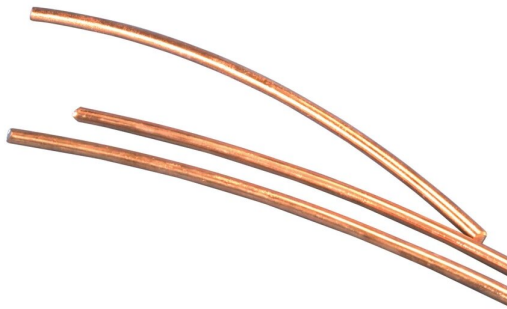


nVent ERICO Cu-Bond Round Conductor



For decades, nVent ERICO has provided the market with high quality copper-bonded ground rods. nVent ERICO has taken that same concept in ground rods and made this into a revolutionary new grounding conductor. The core of the nVent ERICO Cu-Bond Round Conductor is a low carbon steel grade for improved flexibility in the field. The steel core is plated with nickel then electro-plated with a coating of copper. This electro-plating process helps ensure a long-lasting molecular bond between the copper layer and the steel.

The steel core of the conductor provides theft-deterrent benefits, making the conductor difficult to cut with hand tools. With this steel core, nVent ERICO Cu-Bond Round Conductor is a cost-effective alternative to 100% copper conductor. The copper surface of the conductor provides high conductivity and corrosion resistance properties.

Above grade, the unique properties of nVent ERICO Cu-Bond Round Conductor make it ideal for both horizontal and vertical placement. The conductor is well-suited as a lightning protection conductor when applied in accordance with the IEC 62305-3 Edition 2.0 standard.

In the utility industry, the product can be used as a distribution down-lead conductor or as part of a bonding kit for substation fences or equipment ground risers back to the grid. In telecom applications, the product can be used to connect an equipment ground to the ground grid, as a riser (down-lead) for towers, or as a grounding conductor for datacenter mesh bonding. They are also well suited for rail applications such as trackside bonding conductors and stray current conductors, grounding kits for trackside equipment, electrical traction power, as well as in substation, wayside shelters, and communication antenna equipment.

Below grade, nVent ERICO Cu-Bond Round Conductors are ideal as earthing and bonding conductors where copper theft may occur. They may be used as a buried ground grid conductor or electrode for wireless telecom towers, power distribution and transmission grounding in utility substations, large scale ground mount solar farms, petro-chemical and mining infrastructure in industrial facilities, and railway applications. The conductor also can be used as an interconnecting grounding conductor between wind towers or as a grounding grid at the base of a wind tower.

CARACTERISTICI

Theft-deterrent; steel core is hard to cut with hand tools

Cost-effective; copper bonded to a steel core minimizes the amount of copper in the cable

Superior corrosion resistance; application life of typically 30-40 years in most soil conditions

Copper-bonded coating will not crack or tear when the conductor is bent

High resistance to corrosion and provides a low-resistance path to ground

nVent ERICO Cu-Bond Round Conductor is marked every meter (3.28') for easy measurement in the field

Meets the requirements of IEC® 62305-3 Edition 2 and IEC/EN 62561-2 for lightning protection applications

nVent ERICO Cu-Bond Round Conductors are UL certified to IEC® 62561-2

Material: Copper-Bonded Steel
Plating Thickness: 254µm
Complies With: EN IEC® 62305-3 Edition 2; EN IEC® 62561-2; EN IEC 62561-2



SPECIFICAȚII

Număr de catalog	Diameter (Ø)	Length (L)	Fusing Capacity Equivalency	nVent ERICO Cadweld Conductor Code	Unit Weight	Certification Details	Certifications
CBSC10	10 mm	100m	35mm ²	T2	62.7 kg	EN IEC® 61561-2	UL (IEC)
CBSC14	14.2 mm	100m	70mm ²	T4	125 kg	EN IEC® 61561-2, UL® 467, CSA C22.1 No. 41	cUL, UL, UL (IEC)
CBSC18	17.7 mm	100m	95mm ²	T6	192.2 kg	EN IEC® 61561-2, UL® 467, CSA C22.1 No. 41	cUL, UL, UL (IEC)
CBSC8	8 mm	100m	25mm ²	T1	39 kg	EN IEC® 61561-2	UL (IEC)

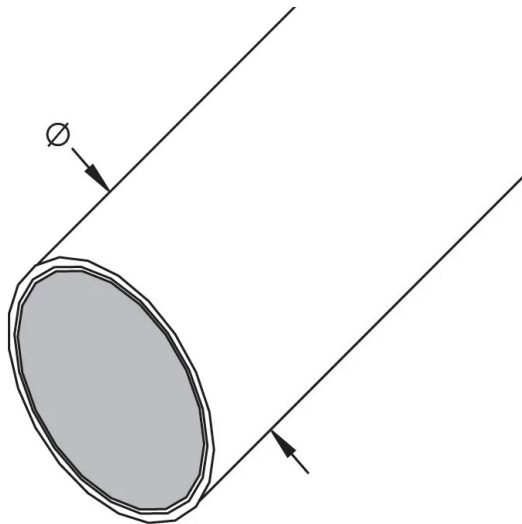
DETALII SUPLIMENTARE DESPRE PRODUS

Resistance per unit length measurements made in mΩ/m, CBSC compared with respect to AWG/Metric.

The IEEE® 837 standard (Annex C) provides a method of calculating the fusing current for conductors. This chart is a reference of the calculations for copper-bonded steel conductor according to the IEEE 837 standard. This information is for reference only.

Conductor Physical Size Comparison		
Conductor Size	Approximate Diameter	Cross Section
25 mm ²	6.76 mm	-
35 mm ²	7.65 mm	-
CBSC8	8.00 mm	50.27 mm ²
50 mm ²	8.89 mm	-
CBSC10	10.00 mm	78.52 mm ²
70 mm ²	10.69 mm	-
95 mm ²	12.47 mm	-
CBSC13	13.20 mm	138.07 mm ²
CBSC14	14.20 mm	158.90 mm ²
120 mm ²	14.22 mm	-
CBSC16	15.70 mm	199.84 mm ²
150 mm ²	15.75 mm	-
185 mm ²	17.65 mm	-
CBSC18	17.70 mm	243.27 mm ²

Conductivity Comparison				
Part Number	AWG (Ω/km)	CBSC Resistance per Length Comparison	mm ² (Ω/km)	CBSC Resistance per Length Comparison
CBSC18	1/0 AWG	118.52%	50 mm ²	110.82%
	2 AWG	74.54%	35 mm ²	77.57%
CBSC16	2 AWG	102.20%	35 mm ²	106.36%
	4 AWG	64.27%	25 mm ²	75.97%
CBSC14	2 AWG	137.78%	25 mm ²	102.42%
	4 AWG	86.65%	16 mm ²	65.55%
CBSC13	2 AWG	134.46%	25 mm ²	99.95%
	4 AWG	84.56%	16 mm ²	63.97%
CBSC10	4 AWG	132.25%	16 mm ²	100.05%
	6 AWG	83.17%	10 mm ²	62.53%
CBSC8	6 AWG	107.85%	16 mm ²	129.73%
	8 AWG	67.83%	10 mm ²	81.08%



AVERTIZARE

Produsele nVent trebuie instalate și utilizate numai așa cum este indicat în fișele de instrucțiuni și materialele de formare ale nVent. Fișele de instrucțiuni sunt disponibile pe www.nvent.com și de la reprezentantul dvs. de servicii clienți nVent. O instalare incorectă, o utilizare abuzivă, o aplicare greșită sau orice altă lipsă de respectare completă a instrucțiunilor și avertismentelor nVent poate duce la defectarea produsului, la deteriorarea proprietății, la răniri corporale grave și moarte și/sau poate anula garanția dvs.

⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

North America

+1.800.753.9221
Option 1 – Customer Care
Option 2 – Technical
Support

Europe

Netherlands:
+31 800-0200135
France:
+33 800 901 793

Europe

Germany:
800 1890272
Other Countries:
+31 13 5835404

APAC

Shanghai:
+ 86 21 2412 1618/19
Sydney:
+61 2 9751 8500

