

Galvanized Theft Deterrent Cable



Theft-deterrent composite cables (TDCC) are conductors that function as copper conductors, but appear to be non-copper conductors and are difficult to cut and steal. These conductors are ideal for exposed electrical distribution grounding leads where copper theft may occur. Theft deterrent conductors are difficult to cut with hand tools and the outer steel stranding is magnetic, which further deters thieves looking for copper.

Theft-deterrent cables conductors are either bare or insulated concentric stranded conductors that consist of outer galvanized steel strands that protect and conceal internal tinned copper strands.

Smaller diameter conductors such as a #4 AWG equivalent are ideal for transmission tower, distribution pole and streetlight grounding applications. Larger sizes such as the conductor equivalents to either 2/0 or 4/0 copper conductors are suitable for a wide range of grounding applications.

FEATURES

Inner copper stranding is tinned for superior corrosion resistance

Inner copper core provides increased conductivity and flexibility

More flexible and easier to work with than copper clad steel conductors

Material: Copper;Steel
Finish: Tinned;Electrogalvanized

SPECIFICATIONS

Table 1/2

Catalog Number	Insulated	Stranding	Resistance	Fusing Capacity Equivalency	Insulation Thickness	Cable Diameter Range
CC5A40	No	(133) Tinned Copper, (28) Galvanized Steel	0.19Ω/k m	95mm ²		16.7 mm
CC5A40INS	Yes	(133) Tinned Copper, (28) Galvanized Steel	0.19Ω/k m	95mm ²	2.4 mm	16.7 mm

Catalog Number	Insulated	Stranding	Resistance	Fusing Capacity Equivalency	Insulation Thickness	Cable Diameter Range
CC5A30INS	Yes	(133) Tinned Copper, (24) Galvanized Steel	0.25Ω/k m	70mm ²	2.4 mm	14.5 mm
CC5A30INSK	Yes	(133) Tinned Copper, (24) Galvanized Steel	0.25Ω/k m	70mm ²	2.4 mm	14.5 mm
CC5A30	No	(133) Tinned Copper, (24) Galvanized Steel	0.25Ω/k m	70mm ²		14.5 mm
CC5A20INSK	Yes	(133) Tinned Copper, (21) Galvanized Steel	0.32Ω/k m	50mm ²	2.4 mm	13.4 mm
CC5A20	No	(133) Tinned Copper, (21) Galvanized Steel	0.32Ω/k m	50mm ²		13.4 mm
CC5A20INS	Yes	(133) Tinned Copper, (21) Galvanized Steel	0.32Ω/k m	50mm ²	2.4 mm	13.4 mm
CC5A05500M	No	(3) Tinned Copper, (16) Galvanized Steel	1.59Ω/k m	16mm ²		8.5 mm
CC5A05SP100M	No	(3) Tinned Copper, (16) Galvanized Steel	1.59Ω/k m	16mm ²		8.5 mm
CC5A05	No	(3) Tinned Copper, (16) Galvanized Steel	1.59Ω/k m	16mm ²		8.5 mm
CC5A04	No	(1) Tinned Copper, (6) Galvanized Steel	1.5Ω/km	16mm ²		8.4 mm
CC5A05300M	No	(3) Tinned Copper, (16) Galvanized Steel	1.59Ω/k m	16mm ²		8.5 mm

Table 2/2

Catalog Number	Cable Length	Unit Weight
CC5A40	60.96m	78 kg
CC5A40INS	60.96m	90 kg
CC5A30INS	60.96m	69 kg
CC5A30INSK	304.8m	367 kg
CC5A30	60.96m	61 kg
CC5A20INSK	304.8m	288 kg
CC5A20	60.96m	50 kg
CC5A20INS	60.96m	61 kg
CC5A05500M	500m	176 kg
CC5A05SP100M	100m	41 kg
CC5A05	76.2m	26 kg
CC5A04	76.2m	26 kg
CC5A05300M	300m	106 kg

ADDITIONAL PRODUCT DETAILS

Weight does not include reel.

WARNING

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

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