

Ground Mesh



Prefabricated ground mesh from nVent ERICO is a convenient, efficient and economical means of improving grounding systems at facilities with high voltage installations and wherever large area grounds are required. Equipotential mesh reduces step potentials at power plants and substations, and effectively minimizes ground plane fluctuations at communications antenna sites. Wire mesh is also an excellent ground screen, reflector and electronic shield for large facilities.

Prefabricated ground mesh is also easy to install, as no digging or trenching is required. Simply unroll over the ground, interconnect by welding to adjacent sections of mesh using nVent ERICO Cadweld, then weld to the main ground grid in substations or weld to ground rods. The mesh may be covered with a layer of earth or crushed stone depending on the application.

The nVent ERICO Cadweld process provides a rapid and economical method of interconnecting mesh in the field. The resulting weld is permanent and corrosion resistant, and has a current carrying capacity equal to that of the conductor.

FEATURES

Prefabricated ground mesh wound into a roll format for shipping

Silver brazed joints (35% silver alloy brazing material) provide strength to resist separation during installation and bear the traffic of heavy vehicles

Conductor spacing in many rectangular configurations up to 24" x 48" (610 mm x 1219 mm) in 2" (51 mm) increments

Normally supplied in sections with standard overhang for interconnecting half conductor spacing + 2" (51 mm)

SPECIFICATIONS

Table 1/1

Catalog Number	MESH
Material	Copper Copper-Bonded Steel
Length 2 (L2)	51 - 610 mm
Width 1 (W1)	6.1 m Max
Width 2 (W2)	51 - 1219 mm

Catalog Number	MESH
Conductor Size	#6 Solid Copper #6 Copper-Clad Steel (30% or 40% Conductivity) #8 Solid Copper #8 Copper-Clad Steel (30% or 40% Conductivity) #10 Solid Copper
Overhang	Standard: Half Conductor Spacing + 2" (51 mm) None Half Conductor Spacing
Unit Weight	227 kg Max

ADDITIONAL PRODUCT DETAILS

Length 1 (L1) is unlimited, up to 500 lbs. (227 kg) maximum. Length 2 (L2) and Width 2 (W2) are available in 2" (51 mm) increments only.

Net Weight (kg) per 93 Square Meters (1,000 Square Feet)						
Conductor Spacing (W2 x L2)	Copper-clad Steel Conductor (AWG)			Solid Copper Wire (AWG)		
	#6	#8	#10	#6	#8	#10
51 mm x 51 mm	403 kg	253 kg	159 kg	442 kg	276 kg	174 kg
102 mm x 102 mm	201 kg	127 kg	79 kg	221 kg	138 kg	87 kg
152 mm x 152 mm	134 kg	84 kg	53 kg	147 kg	92 kg	58 kg
203 mm x 203 mm	101 kg	63 kg	40 kg	110 kg	69 kg	44 kg
305 mm x 305 mm	67 kg	42 kg	27 kg	74 kg	46 kg	29 kg
610 mm x 610 mm	34 kg	21 kg	13 kg	41 kg	23 kg	15 kg

Add 34 kg per roll for approximate shipping weight.

DIAGRAMS



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.

⚠ WARNING: This product can expose you to chemicals including nickel, 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.

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