

# 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<br>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<br>#6 Copper-Clad Steel (30% or 40% Conductivity)<br>#8 Solid Copper<br>#8 Copper-Clad Steel (30% or 40% Conductivity)<br>#10 Solid Copper |
| Overhang       | Standard: Half Conductor Spacing + 2" (51 mm)<br>None<br>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<br>(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](http://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](http://www.P65Warnings.ca.gov).

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