

# MBJYG Grounding and Bonding Braid, Tinned Copper, Halogen Free



MBJYG Grounding and Bonding Braids are a reliable and convenient ground solution for applications that require flexibility and durability. Designed with halogen-free and flame retardant yellow green insulation, MBJYG braids are made with tinned copper ground braids and solid palms that are ready to install without any additional cutting, stripping, crimping or punching. MBJYG braids also do not require the addition of tin or crimped lugs and the proprietary manufacturing process helps optimize the electrical contact between each wire and helps eliminate moisture issues in the palms, helping prevent corrosion and extend the useful life of the braid.

## CERTIFICATIONS



## FEATURES

Complete range of earth/ground flexible connections from 6 - 25 mm<sup>2</sup> (11.84 - 49.33 kcmil) cross section and from 100 - 300 mm (3.937" - 11.811") length

Integral palm, without tin or crimped lugs for superior electrical contact and tensile strength resistance

Resistant to vibration and fatigue, reducing maintenance

Provides weight savings, material savings and lower impedance when compared to similar lugged cables with insulation

Ready to use out of the box, eliminates the need for cutting, stripping, crimping and punching

Halogen free and flame retardant yellow green insulation

Quick and easy to install

Recommended by the EMC/EMI directives and less impedance than cables

RoHS compliant

## SPECIFICATIONS

|                                     |      |
|-------------------------------------|------|
| <b>Dielectric Strength:</b>         | 15   |
| <b>Nominal Voltage, UL/CSA/IEC:</b> | 600V |

|                             |                           |
|-----------------------------|---------------------------|
| <b>Material:</b>            | Copper;Polyolefin         |
| <b>Halogen Free Rating:</b> | EN 14582                  |
| <b>Complies With:</b>       | IEC® 60439.1;IEC® 61439.1 |
| <b>Finish:</b>              | Tinned                    |
| <b>Flammability Rating:</b> | UL® 224 VW-1              |
| <b>Working Temperature:</b> | -55 to 125 °C             |

Table 1/2

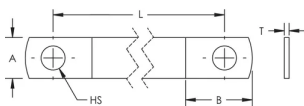
| Catalog Number | Article Number | Ampacity | Thickness (T) | Cross Section     | Length (L) | Hole Size (HS) |
|----------------|----------------|----------|---------------|-------------------|------------|----------------|
| MBJYG10-100-6  | 563606         | 75A      | 1.1 mm        | 10mm <sup>2</sup> | 100mm      | 6.5 mm         |
| MBJYG6-100-6   | 563601         | 40A      | 1.1 mm        | 6mm <sup>2</sup>  | 100mm      | 6.5 mm         |
| MBJYG10-150-6  | 563607         | 75A      | 1.1 mm        | 10mm <sup>2</sup> | 150mm      | 6.5 mm         |
| MBJYG10-200-6  | 563608         | 75A      | 1.1 mm        | 10mm <sup>2</sup> | 200mm      | 6.5 mm         |
| MBJYG16-100-8  | 563612         | 120A     | 1.5 mm        | 16mm <sup>2</sup> | 100mm      | 8.5 mm         |
| MBJYG6-150-6   | 563602         | 40A      | 1.1 mm        | 6mm <sup>2</sup>  | 150mm      | 6.5 mm         |
| MBJYG6-200-6   | 563603         | 40A      | 1.1 mm        | 6mm <sup>2</sup>  | 200mm      | 6.5 mm         |
| MBJYG10-250-6  | 563609         | 75A      | 1.1 mm        | 10mm <sup>2</sup> | 250mm      | 6.5 mm         |
| MBJYG10-300-6  | 563611         | 75A      | 1.1 mm        | 10mm <sup>2</sup> | 300mm      | 6.5 mm         |
| MBJYG16-150-8  | 563613         | 120A     | 1.5 mm        | 16mm <sup>2</sup> | 150mm      | 8.5 mm         |
| MBJYG25-100-8  | 563617         | 150A     | 1.9 mm        | 25mm <sup>2</sup> | 100mm      | 8.5 mm         |
| MBJYG6-250-6   | 563604         | 40A      | 1.1 mm        | 6mm <sup>2</sup>  | 250mm      | 6.5 mm         |

| CatalogNumber | Article Number | Ampacity | Thickness (T) | Cross Section     | Length (L) | Hole Size (HS) |
|---------------|----------------|----------|---------------|-------------------|------------|----------------|
| MBJYG6-300-6  | 563605         | 40A      | 1.1 mm        | 6mm <sup>2</sup>  | 300mm      | 6.5 mm         |
| MBJYG16-200-8 | 563614         | 120A     | 1.5 mm        | 16mm <sup>2</sup> | 200mm      | 8.5 mm         |
| MBJYG16-250-8 | 563615         | 120A     | 1.5 mm        | 16mm <sup>2</sup> | 250mm      | 8.5 mm         |
| MBJYG25-150-8 | 563618         | 150A     | 1.9 mm        | 25mm <sup>2</sup> | 150mm      | 8.5 mm         |
| MBJYG16-300-8 | 563616         | 120A     | 1.5 mm        | 16mm <sup>2</sup> | 300mm      | 8.5 mm         |
| MBJYG25-200-8 | 563619         | 150A     | 1.9 mm        | 25mm <sup>2</sup> | 200mm      | 8.5 mm         |
| MBJYG25-250-8 | 563621         | 150A     | 1.9 mm        | 25mm <sup>2</sup> | 250mm      | 8.5 mm         |
| MBJYG25-300-8 | 563622         | 150A     | 1.9 mm        | 25mm <sup>2</sup> | 300mm      | 8.5 mm         |

| Table 2/2      |                |       |       |             |
|----------------|----------------|-------|-------|-------------|
| Catalog Number | Article Number | A     | B     | Unit Weight |
| MBJYG10-100-6  | 563606         | 11 mm | 18 mm | 0.01 kg     |
| MBJYG6-100-6   | 563601         | 11 mm | 18 mm | 0.01 kg     |
| MBJYG10-150-6  | 563607         | 11 mm | 18 mm | 0.02 kg     |
| MBJYG10-200-6  | 563608         | 11 mm | 18 mm | 0.02 kg     |
| MBJYG16-100-8  | 563612         | 15 mm | 20 mm | 0.02 kg     |
| MBJYG6-150-6   | 563602         | 11 mm | 18 mm | 0.02 kg     |
| MBJYG6-200-6   | 563603         | 11 mm | 18 mm | 0.02 kg     |

| Catalog Number | Article Number | A     | B     | Unit Weight |
|----------------|----------------|-------|-------|-------------|
| MBJYG10-250-6  | 563609         | 11 mm | 18 mm | 0.03 kg     |
| MBJYG10-300-6  | 563611         | 11 mm | 18 mm | 0.03 kg     |
| MBJYG16-150-8  | 563613         | 15 mm | 20 mm | 0.03 kg     |
| MBJYG25-100-8  | 563617         | 20 mm | 28 mm | 0.03 kg     |
| MBJYG6-250-6   | 563604         | 11 mm | 18 mm | 0.03 kg     |
| MBJYG6-300-6   | 563605         | 11 mm | 18 mm | 0.03 kg     |
| MBJYG16-200-8  | 563614         | 15 mm | 20 mm | 0.04 kg     |
| MBJYG16-250-8  | 563615         | 15 mm | 20 mm | 0.04 kg     |
| MBJYG25-150-8  | 563618         | 20 mm | 28 mm | 0.04 kg     |
| MBJYG16-300-8  | 563616         | 15 mm | 20 mm | 0.05 kg     |
| MBJYG25-200-8  | 563619         | 20 mm | 28 mm | 0.06 kg     |
| MBJYG25-250-8  | 563621         | 20 mm | 28 mm | 0.07 kg     |
| MBJYG25-300-8  | 563622         | 20 mm | 28 mm | 0.08 kg     |

## 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.

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