

## IBS Flat Insulated Braided Conductor - IBS25-630-8-10 (558244MTO)

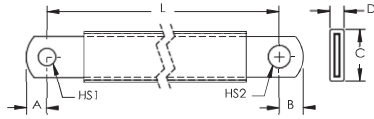


IBS Flat Insulated Braided Conductors are the ideal ready-to-install flexible wire replacement solution. They connect directly to the front access terminals of an electrical device without the need for additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBS Flat Insulated Braided Conductors are available in cross section of 25 and 50 mm<sup>2</sup> (49.34 and 98.68 kcmil), lengths from 165 to 1,130 mm, and amperages ranging from 177 to 274 A.

Manufactured in an ISO 9001 certified proprietary automated facility, IBS Flat Insulated Braided Conductors are formed by weaving high-quality electrolytic copper wire to form a durable low voltage connector with maximum flexibility that allows for more compact power to electrical device. The IBS Flat Insulated Braided Conductor allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The IBS Flat Insulated Braided Conductor features integral pre-punched palms that are ready to connect out of the box. There are no lugs to purchase or install, making connections simpler and faster and eliminating faulty connections due to vibration or fatigue. The insulation is a high-resistance self-extinguishing PVC.

- Suitable for all main electrical devices
- Resistant to vibration, improving reliability and performance
- Improves assembly flexibility and aesthetics
- Quick and easy installation
- No additional cutting, stripping, crimping and punching needed
- Integral palm without lugs or terminals reduces material and assembly weight
- Small wire diameter provides maximum flexibility
- RoHS compliant



|                                    |                             |
|------------------------------------|-----------------------------|
| Part Number                        | IBS25-630-8-10              |
| Article Number                     | 558244MTO                   |
| Finish                             | Tinned                      |
| Typical Application Current Rating | 160 A                       |
| Material                           | Copper<br>Polyvinylchloride |
| Dielectric Strength                | 20 kV/mm                    |
| Flammability Rating                | UL <sup>®</sup> 94V-0       |
| Max Working Voltage, IEC/UL 758    | 1,000 VAC<br>1,500 VDC      |
| Max Working Voltage, UL 67         | 600 VAC/DC                  |
| Working Temperature                | 105 °C Max                  |

|                             |  |
|-----------------------------|--|
| Part Number                 | IBS25-630-8-10   |
| Operating Temperature       | -50 to 105 °C  |
| Wire Diameter               | 0.15 mm  |
| Complies With               | IEC® 60439.1<br>IEC® 61439.1<br>IEC® 61439.1 Class II  |
| Cross Section               | 25 mm <sup>2</sup>   |
| Conductor Width             | 20 mm  |
| Conductor Thickness         | 1.9 mm   |
| Length (L)                  | 630 mm   |
| A                           | 10 mm  |
| B                           | 12 mm  |
| C                           | 25 mm  |
| D                           | 6 mm   |
| Hole Size 1 (HS1)           | 8.5 mm   |
| Hole Size 2 (HS2)           | 10.5 mm  |
| Unit Weight                 | 0.25 kg  |
| Certifications              | ABS 13-HS1070074-PDA<br>CE<br>CSA 90005<br>cURus<br>EAC0234251 (Russian Federation)<br>IEC 61439-1 Class II IBS-IBSB-IBSBR<br>IEC 61439-1 IBS-IBSB-IBSBR<br>RoHS |
| Standard Packaging Quantity | 10 pc  |
| UPC                         |  |
| EAN-13                      | 7090041500181  |

| Maximum Ampacity Ratings               |              |              |              |              |              |              |              |                           |                           |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------------|---------------------------|
| Cross Section (mm <sup>2</sup> /kcmil) | ΔT 30° C (A) | ΔT 40° C (A) | ΔT 45° C (A) | ΔT 50° C (A) | ΔT 55° C (A) | ΔT 60° C (A) | ΔT 70° C (A) | 2 Bar Current Coefficient | 3 Bar Current Coefficient |
| 25/49.34                               | 137          | 158          | 167          | 177          | 185          | 193          | 209          | 1.6                       | 2                         |
| 50/98.68                               | 213          | 246          | 260          | 274          | 288          | 301          | 325          | 1.6                       | 2                         |

| Circuit Breaker Compatibility      |                    |                  |
|------------------------------------|--------------------|------------------|
| Circuit Breaker Current Rating     | 125/160 A          | 250 A            |
| Part Number                        | IBS25x             | IBS50x           |
| Schneider Electric® Compact® (IEC) | NSX 100<br>NSX 160 | NSX 250          |
| Square D® PowerPact® (UL)          | J-Frame            | J-Frame          |
| ABB® Tmax® (IEC)                   | -                  | T3<br>XT3<br>XT4 |
| ABB® Tmax® (UL)                    | T3                 | T4               |
| GE® Record Plus® (IEC/UL)          | FE 160             | FE 250           |
| Siemens® Sentron® (IEC/UL)         | -                  | VL250<br>3VL3    |
| Moeller® xEnergy® (IEC)            | -                  | NZM2             |

| Circuit Breaker Compatibility  |           |                     |
|--------------------------------|-----------|---------------------|
| Circuit Breaker Current Rating | 125/160 A | 250 A               |
| Part Number                    | IBS25x    | IBS50x              |
| Cutler Hammer® Series G (UL)   | JG Frame  | JG Frame            |
| Legrand® (IEC)                 | -         | DPX 250<br>DPX3 250 |
| Hager® (IEC)                   | -         | h3 250              |

$\Delta T$  = Temperature of conductors – Internal temperature of panel.

This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

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