

# IBS Round Insulated Braided Conductor – IBS120-830-10 (558274)

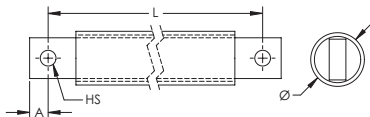


IBS Round Insulated Braided Conductors are the ideal ready-to-install flexible wire replacement solution. They connect to the terminals of an electrical device without the need for additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBS Round Insulated Braided Conductors are available in cross sections of 120, 185 and 240 mm<sup>2</sup> (236.82, 365.10, and 473.65 kcmil), lengths from 330 to 1,030 mm (9.06" to 40.55"), and amperages ranging from 420 to 630 A.

Manufactured in an ISO 9001 certified facility, IBS Round 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 connections. The IBS Round Insulated Braided Conductor allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The IBS Round Insulated Braided Conductor features 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.

- Resistant to vibration, improving reliability and performance
- Improves assembly flexibility and aesthetics
- Quick and easy installation
- No additional cutting, stripping, crimping and punching needed
- Small wire diameter provides maximum flexibility
- RoHS compliant



Part Number	IBS120-830-10
Article Number	558274
Finish	Tinned
Typical Application Current Rating	400 A
Material	Copper Polyvinylchloride
Dielectric Strength	20 kV/mm
Flammability Rating	UL® 94V-0
Max Working Voltage, IEC/UL 758	1,000 VAC 1,500 VDC
Max Working Voltage, UL 67	600 VAC/DC
Working Temperature	105 °C Max
Operating Temperature	-50 to 105 °C
Wire Diameter	0.15 mm

Part Number	IBS120-830-10
Complies With	IEC® 60439.1 IEC® 61439.1 IEC® 61439.1 Class II
Cross Section	120 mm <sup>2</sup>
Conductor Width	24 mm
Conductor Thickness	10 mm
Length (L)	830 mm
A	12 mm
Diameter (Ø)	27 mm
Hole Size (HS)	10.5 mm
Unit Weight	1.29 kg
Certifications	ABS 13-HS1070074-PDA CE CSA 90005 cURus EAC 0234251 (Russian Federation) IEC 61439-1 Class II IBS-IBSB-IBSBR IEC 61439-1 IBS-IBSB-IBSBR RoHS
Standard Packaging Quantity	2 pc
UPC	78285652107
EAN-13	3479775582740

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
120/236.82	325	376	398	420	441	460	497	1.6
185/365.10	407	470	499	526	552	576	622	1.6
240/473.65	488	563	598	630	661	690	745	1.6

ΔT = 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.

ABS is a registered certification mark of American Bureau of Shipping. CSA, CSA-US and C-CSA-US are registered trademarks of Canadian Standards Association. IEC is a registered trademark of the International Electrotechnical Commission. UL, UR, cUL, cUR, cULus and cURus are registered certification marks of UL LLC.

#### WARNING

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

© 2016 Pentair All rights reserved

Pentair, CADDY, CADWELD, CRITEC, ERICO, ERIFLEX, ERITECH and LENTON are owned by Pentair or its global affiliates.

All other trademarks are the property of their respective owners. Pentair reserves the right to change specifications without prior notice.