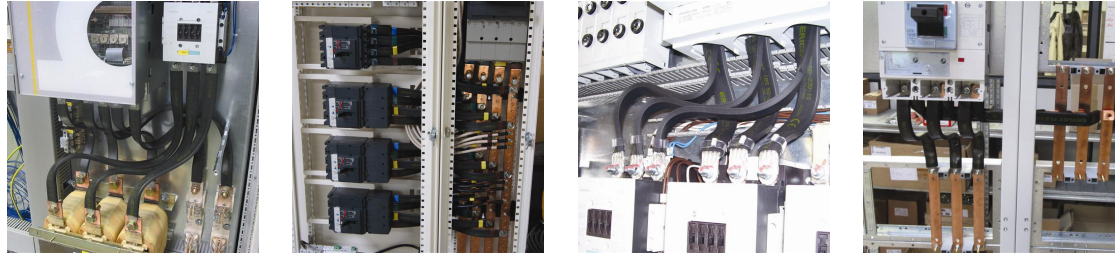


IBS Flat Insulated Braided Conductor

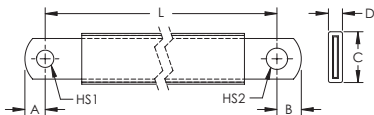


IBS Flat Insulated Braided Conductors are the ideal ready-to-install flexible wire replacement solution. They connect directly to the front access terminals of an electrical device without the need for additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBS Flat Insulated Braided Conductors are available in cross section of 25 and 50 mm² (49.34 and 98.68 kcmil), lengths from 230 to 1,030 mm (9.06" to 40.55"), 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



Finish: Tinned

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

Complies With: IEC® 60439.1, IEC® 61439.1, IEC® 61439.1 Class II



Part Number	Article Number	Cross Section (mm²)	Conductor Width (mm)	Conductor Thickness (mm)	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	HS1 (mm)	HS2 (mm)
Typical Application Current Rating: 160 A											
IBS25-230-8-10	558240	25	20	1.9	230	10	12	25	6.0	8.5	10.5
IBS25-330-8-10	558241	25	20	1.9	330	10	12	25	6.0	8.5	10.5
IBS25-430-8-10	558242	25	20	1.9	430	10	12	25	6.0	8.5	10.5
IBS25-530-8-10	558243	25	20	1.9	530	10	12	25	6.0	8.5	10.5
IBS25-630-8-10	558244	25	20	1.9	630	10	12	25	6.0	8.5	10.5
IBS25-830-8-10	558249	25	20	1.9	830	10	12	25	6.0	8.5	10.5
IBS25-1030-8-10	558250	25	20	1.9	1,030	10	12	25	6.0	8.5	10.5
Typical Application Current Rating: 250 A											
IBS50-230-10	558260	50	20	3.8	230	12	12	25	7.5	10.5	10.5
IBS50-330-10	558261	50	20	3.8	330	12	12	25	7.5	10.5	10.5
IBS50-430-10	558262	50	20	3.8	430	12	12	25	7.5	10.5	10.5
IBS50-530-10	558263	50	20	3.8	530	12	12	25	7.5	10.5	10.5
IBS50-630-10	558264	50	20	3.8	630	12	12	25	7.5	10.5	10.5
IBS50-830-10	558255	50	20	3.8	830	12	12	25	7.5	10.5	10.5
IBS50-1030-10	558256	50	20	3.8	1,030	12	12	25	7.5	10.5	10.5

Maximum Ampacity Ratings									
Cross Section (mm²/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 NSX 160	NSX 250
Square D® PowerPact® (UL)	J-Frame	J-Frame
ABB® Tmax® (IEC)	-	T3 XT3 XT4
ABB® Tmax® (UL)	T3	T4
GE® Record Plus® (IEC/UL)	FE 160	FE 250
Siemens® Sentron® (IEC/UL)	-	VL250 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 DPX3 250
Hager® (IEC)	-	h3 250

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.

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WARNING

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