

IBSB/IBSBR Insulated Braided Conductor for Circuit Breakers - IBSBR240-430 (558536MTO)



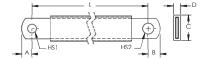
IBSB/IBSBR is the ideal ready-to-install flexible wire replacement solution that is specifically designed for connections to all molded case circuit breakers, including the most compact breakers on the market. It connects to the front access terminals of the breakers without any additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBSB/ IBSBR is available in cross section of 25 to 240 mm<sup>2</sup> (49.34 to 273.65 kcmil), lengths from 230 to 1,130 mm, and 80 to 350 A tinned and 400 to 630 A bare (red) copper.

Manufactured in an ISO 9001 certified proprietary automated facility, IBSB/IBSBR is 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 to circuit breakers. The IBSB/IBSBR allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The IBSB/IBSBR 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.

IBSB/IBSBR is compatible with all major brand molded case circuit breakers. Contact your ERIFLEX representative to determine the correct size for your application.

- Suitable for all main molded case circuit breakers
- 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	IBSBR240-430
Article Number	558536
Typical Application Current Rating	630 A
Finish	Bare
	Copper Polyvinylchloride
Dielectric Strength	20 kV/mm
Flammability Rating	UL®94V-0
Max Working Voltage, IEC/UL 758	1,000 VAC

Dot Name         Dot Not No           Incomplete         1,500 VPC           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 Class II           IEC® 61439.1 Class II         IEC® 61439.1           Conductor Width         32 mm           Conductor Thickness         9.2 mm           Length (L)         430 mm           A         12 mm           B         12 mm           C         39 mm           A         12 mm           B         14 mm           C         39 mm           Hole Size 1 (HS1)         10.5 mm           Hole Size 2 (HS2)         12.5 mm           Unit Weight         1.14 kg           Certifications         ABS 13-HS1070074-PDA Bureau Veritas 41939 BV CE CSA 90005 CURUS           Standard Packaging Quantity         2 pc	Ī	Part Number	IBSBR240-430			
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 IEC® 61439.1 IEC® 61439.1 IEC® 61439.1           Cross Section         20 mm <sup>2</sup> Conductor Width         32 mm           Conductor Width         32 mm           Length (L)         430 mm           A         12 mm           B         14 mm           C         99 mm           Hole Size 1 (HS1)         10.5 mm           Hole Size 2 (HS2)         1.3 sm           Unit Weight         1.4 kg           Certifications         ABS UF4150074-PDA BS UF4150074-PDA BS UF4150074-PDA BS UF41507074-PDA BS UF41507074-PDA C CS A 90005 CURWAS SC						
Operating Temperature         -50 to 105 °C           Wire Diameter         0.15 mm           Compiles With         1EC® 60439.1 1EC® 61439.1 1EC® 61439.1 1EC® 61439.1 Conductor Width           Cross Section         240 mm²           Conductor Width         32 mm           Conductor Width         32 mm           Length (L)         430 mm           A         12 mm           B         14 mm           C         39 mm           Hole Size 1 (HS1)         10.5 mm           Hole Size 2 (HS2)         12.5 mm           Unit Weight         1.14 kg           Certifications         Bureau Vertas 41939 BV C SA 9005 CVRus EAC0234251(Russian Federation)) IEC 61439-1 IBS-IBSB-IBSBR RoHS		Max Working Voltage, UL 67				
Wire Diameter0.15 mmComplies WithIEC@ 60439.1 IEC@ 61439.1 Class IICross Section240 mm2Conductor Width32 mmConductor Thickness9.2 mmLength (L)430 mmA12 mmB14 mmC39 mmC0Hole Size 1 (HS1)10.5 mmHole Size 1 (HS1)10.5 mmUnit Weight1.2 smCertifications85 13-HS1070074-PDA Bureau Vertas 41939 BV CC SA 90005 CLASS 1HS5-IBSSR ROHS		Working Temperature	105 °C Max			
Complies WithIEC@ 60439.1 IEC@ 61439.1 Class IICross Section240 mm2Conductor Width32 mmConductor Thickness9.2 mmLength (L)430 mmA12 mmB14 mmC39 mmC39 mmB14 mmC39 mmHole Size 1 (HS1)10.5 mmHole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsAs 513-HS1070074-PDA Bureau Veritas 41939 BV CE CE SA 90005 cURus EACQ34251 (Russian Federation) IEC 61439-1 Class II IBS-IBSBR RoHS		Operating Temperature	-50 to 105 °C			
IEC® 61439.1 IEC® 61439.1 Class IICross Section240 mm²Conductor Width32 mmConductor Thickness9.2 mmLength (L)430 mmA12 mmB14 mmC39 mmD18.5 mmHole Size 1 (HS1)10.5 mmHole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsABS 13.HS1070074-PDA Bureau Veritas 41939 BV CECCSA 90005 CURUs EAC0234251 (Russian Federation) IEC 61439-1 IBS-IBSB-IBSBR RoHS		Wire Diameter	0.15 mm			
Conductor Width32 mmConductor Thickness9.2 mmLength (L)430 mmA12 mmB14 mmC39 mmC39 mmD18.5 mmHole Size 1 (HS1)10.5 mmHole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsAB 13-HS1070074-PDA Bureau Veritas 41939 BV CE CSA 90005 CURus EAC0234251 (Russian Federation) IEC 61439-1 LDS-IBSB-IBSBR RoHS		Complies With	IEC® 61439.1			
Conductor Thickness9.2 mmLength (L)430 mmA12 mmB14 mmC39 mmD18.5 mmHole Size 1 (HS1)10.5 mmHole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsABS 13-HS1070074-PDA BUreau Veritas 41939 BV CE CSA 90005 CURUS EAC0234251 (Russian Federation) EC 61439-1 Class II IBS-IBSBR RoHS		Cross Section	240 mm <sup>2</sup>			
Length (L)430 mmA12 mmB14 mmC39 mmC39 mmHole Size 1 (HS1)10.5 mmHole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsABS 13-HS1070074-PDA Bureau Veritas 41939 BV CE CSA 90005 CURus EAC0234251 (Russian Federation) IEC 61439-1 IBS-IBSBR RoHS		Conductor Width	32 mm			
A12 mmB14 mmC39 mmD18.5 mmHole Size 1 (HS1)10.5 mmHole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsABS 13-HS1070074-PDA Bureau Veritas 41939 BV CE CE CSA 90005 cURus EAC0234251 (Russian Federation) IEC 61439-1 IBS-IBSBR IEC 61439-1 IBS-IBSBR RoHS		Conductor Thickness	9.2 mm			
B       14 mm         C       39 mm         D       18.5 mm         Hole Size 1 (HS1)       10.5 mm         Hole Size 2 (HS2)       12.5 mm         Unit Weight       1.14 kg         Certifications       Bs 13-HS1070074-PDA Bureau Veritas 41939 BV CE CSA 90005 CURUS EAC0234251 (Russian Federation) IEC 61439-1 Class II IBS-IBSBR IEC 61439-1 IBS-IBSBR RoHS		Length (L)	430 mm			
C39 mmD18.5 mmHole Size 1 (HS1)10.5 mmHole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsABS 13-HS1070074-PDA Bureau Veritas 41939 BV CE CSA 90005 CURUs EAC0234251 (Russian Federation) IEC 61439-1 IBS-IBSBR IEC 61439-1 IBS-IBSBR		A	12 mm			
D18.5 mmHole Size 1 (HS1)10.5 mmHole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsABS 13-HS1070074-PDA Bureau Veritas 41939 BV CE CSA 90005 CURUS EAC0234251 (Russian Federation) IEC 61439-1 IBS-IBSBR IEC 61439-1 IBS-IBSBR IEC 61439-1 IBS-IBSBR RoHS		В	14 mm			
Hole Size 1 (HS1)10.5 mmHole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsABS 13-HS1070074-PDA Bureau Veritas 41939 BV CE CSA 90005 CURUS EAC0234251 (Russian Federation) IEC 61439-1 ClassIIIBS-IBSBR RoHS		C	39 mm			
Hole Size 2 (HS2)12.5 mmUnit Weight1.14 kgCertificationsABS 13-HS1070074-PDA Bureau Veritas 41939 BV CE CE CSA 90005 CURUS EAC0234251 (Russian Federation) IEC 61439-1 Class II IBS-IBSBR IEC 61439-1 IBS-IBSBR RoHS		D	18.5 mm			
Unit Weight       1.14 kg         Certifications       ABS 13-HS1070074-PDA         Bureau Veritas 41939 BV       CE         CSA 90005       CURus         EAC0234251 (Russian Federation)       IEC 61439-1 Class II IBS-IBSBR         IEC 61439-1 IBS-IBSBR       RoHS		Hole Size 1 (HS1)	10.5 mm			
Certifications ABS 13-HS1070074-PDA Bureau Veritas 41939 BV CE CSA 90005 cURus EAC0234251(RussianFederation) IEC 61439-1 ClassIIIBS-IBSBR IEC 61439-1 IBS-IBSBR RoHS		Hole Size 2 (HS2)	12.5 mm			
Bureau Veritas 41939 BV CE CSA 90005 cURus EAC0234251(RussianFederation) IEC 61439-1 ClassIIIBS-IBSBR IEC 61439-1 IBS-IBSBR RoHS		Unit Weight	1.14 kg			
Standard Packaging Quantity 2 pc		Certifications	Bureau Veritas 41939 BV CE CSA 90005 cURus EAC0234251 (Russian Federation) IEC 61439-1 ClassII IBS-IBSB-IBSBR IEC 61439-1 IBS-IBSB-IBSBR			
		Standard Packaging Quantity	2 pc			
UPC 78285679611		UPC	78285679611			
EAN-13 3479775585420		EAN-13	3479775585420			

	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	116	134	142	150	157	164	177	1.6	2	
50/98.68	213	246	260	274	288	301	325	1.6	2	
70/138.15	226	261	277	291	306	319	345	1.6	2	
100/197.35	298	344	365	385	404	422	456	1.6	2	
120/236.82	363	419	444	468	491	513	554	1.6	2	
185/365.1	416	480	509	537	563	588	635	1.6	2	
240/473.65	556	642	681	718	753	786	849	1.6	2	

Circuit Breaker Compatibility										
Circuit Breaker Current Rating	125/160 A	250 A	300 A	350 A	400 A	500 A	630 A			
Part Number	IBSB25x	IBSB50x	IBSB70x	IBSB100x	IBSBR120x	IBSBR185x	IBSBR240x			
Schneider Electric® Compact® (IEC)	NSA NG 125	NSX 250	NSX 400	NSX 400	NSX 400	NSX 630	NSX 630			
Square D® PowerPact® (UL)	H-Frame	J-Frame	L-Frame	L-Frame	L-Frame	-	-			
ABB® Tmax® (IEC)	T1 T2 XT1	T3 XT3 XT4	T4	T4	Т5	Т5	Т5			

Circuit Breaker Compatibility								
Circuit Breaker Current Rating	125/160 A	250 A	300 A	350 A	400 A	500 A	630 A	
Part Number	IBSB25x	IBSB50x	IBSB70x	IBSB100x	IBSBR120x	IBSBR185x	IBSBR240x	
	XT2							
ABB® Tmax® (UL)	T1 T2	Τ4	Т5	Т5	Т5	-	-	
GE® Record Plus® (IEC/UL)	FD 160	FE 250	FG 400	FG 400	FG 400	FG 630	FG 630	
Siemens® Sentron® (IEC/UL)	VL160X 3VL1 VL160 3VL2	VL250 3VL3	VL400 3VL4	VL400 3VL4	VL400 3VL4	-	-	
Moeller® xEnergy® (IEC)	NZM1	NZM2	NZM3	NZM3	NZM3	NZM3	NZM3	
Cutler Hammer® Series G (UL)	EG Frame	JG Frame	LG Frame	LG Frame	LG Frame	LG Frame	LG Frame	
Legrand® (IEC)	DPX 160 DPX3 160	DPX 250 DPX3 250	DPX 630	DPX 630	DPX 630	DPX 630	DPX 630	
Hager® (IEC)	h3 160	h3 250	h3 630	h3 630	-	-	-	

 $\Delta T$  = 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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## WARNING

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