

IBSHY INSULATED BRAIDED CONDUCTOR FOR COMPACT CIRCUIT BREAKERS, 160 A, 24.8"

CATALOG NUMBER

IBSHY32-630

IBSHY is the ideal ready-to-install flexible wire replacement solution that is specifically designed for connections from compact molded case circuit breakers with typical current rating of 125/160 A to copper busbar . The IBSHY connects to the front access terminals of the breakers without any additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBSHY is available in cross section of 32 mm² (63.15 kcmil), lengths from 230 to 830 mm (9.1" to 32.7").

Manufactured in an ISO 9001 certified proprietary automated facility, IBSHY 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 IBSHY allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The IBSHY features integral pre-punched palms at one end with a pre-punched crimped tube at the other end both of which 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.

These specific shapes give users the advantage to have the possibility to link a compact circuit breaker, or other apparatus, using connection by cage or bolt to a copper busbar with a larger bolt.

The insulation is a high-resistance, self-extinguishing, and halogen free glass fiber reinforced silicone providing possible high working temperature. IBSHY is compatible with all major brand compact molded case circuit breakers with 125/160 A nominal current. Contact your nVent ERIFLEX representative to determine the correct size for your application.



CERTIFICATIONS



FEATURES

Suitable for all main 125/160 A electrical devices and specifically 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

Small wire diameter provides maximum flexibility

Halogen free solution for applications requiring a low smoke solution

Conforms to NF EN 45545 obtaining an HL3 classification for chapters R22 and R23

DNV GL® certified for marine and offshore applications

High working temperature

RoHS compliant

PRODUCT ATTRIBUTES

Article Number: 558592

Typical Application Current Rating: 160 A

Finish: Tinned

Material: Copper;Glass Fibre Reinforced Silicone

Flammability Rating: UL® 1441 VW-1

Max Working Voltage, IEC (Ui): 1,000 VAC;1,500 VDC

Peak Short Circuit Current (Ipk): 15 kA

Wire Diameter: 0.006"

Working Temperature: -76 to 482 °F

Complies With: IEC® 60439.1;IEC® 61439.1

Cross Section: 63.150 kcmil

Length: 24.800"

A: 0.430"

B: 0.980"

C: 0.120"

D: 0.200"

Hole Size 1: 0.260"



Hole Size 2: 0.410"

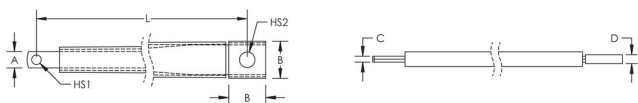
Unit Weight: 0.410 lb

ADDITIONAL PRODUCT DETAILS

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.

DIAGRAMS



Maximum Ampacity Ratings

Cross Section (mm ² /kcmil)	?T 30° C (A)	?T 35° C (A)	?T 40° C (A)	?T 45° C (A)	?T 50° C (A)	?T 55° C (A)	?T 60° C (A)	?T 65° C (A)	?T 70° C (A)	?T 75° C (A)	?T 80° C (A)	?T 100° C (A)	?T 120° C (A)	2 Bar Curr ent Coeff icien t	3 Bar Curr ent Coe fficien t
32/63.15	142	153	164	174	184	193	201	209	217	225	235	263	290	1.6	2

Circuit Breaker Compatibility

Circuit Breaker Current Rating	125/160 A
Part Number	IBSHY32x
Schneider Electric® Compact® (IEC)	NSA NG 125
Square D® PowerPact® (UL)	H-Frame
ABB® Tmax® (IEC)	T1 T2 XT1 XT2
ABB® Tmax® (UL)	T1 T2 XT1 XT2
GE® Record Plus® (IEC/UL)	FD 160
Siemens® Sentron® (IEC/UL)	VL160X 3VL1 VL160 3VL2
Moeller® xEnergy® (IEC)	NZM1
Cutler Hammer® Series G (UL)	EG Frame
Legrand® (IEC)	DPX 160 DPX3 160
Hager® (IEC)	h3 160
Rockwell/Allen Bradley (UL)	G-Frame H-Frame
OEZ (IEC)	BC160N

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 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.

North America

+1.800.753.9221
Option 1 – Customer Care
Option 2 – Technical Support

Europe

Netherlands:
+31 800-0200135
France:
+33 800 901 793

Europe

Germany:
800 1890272
Other Countries:
+31 13 5835404

APAC

Shanghai:
+ 86 21 2412 1618/19
Sydney:
+61 2 9751 8500



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