

IBSHY Insulated Braided Conductor for Compact Circuit Breakers

Data Solutions

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 2015 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.



CERTIFICERINGEN



KENMERKEN

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

SPECIFICATIES

Draaddiameter:	0.15mm
Piekkortsluitstroom (I_{pk}):	15kA
Nominale stroom standaardtoepassing:	160A
Max. bedrijfsspanning, IEC (U_i):	1000; 1500
Materiaal:	Koper; Met glasvezel versterkt siliconen
Voldoet aan:	IEC® 60439,1; IEC® 61439,1
Afwerking:	Vertind
Ontvlambaarheidsklasse:	UL® 1441 VW-1
Werktemperatuur:	-60 to 250°C

Table 1/2

Catalogusnummer	Artikelnummer	Dwarsprofiel	Lengte (L)	A	B	C
IBSHY32-230	558584	32mm ²	230mm	11mm	25mm	3mm
IBSHY32-330	558586	32mm ²	330mm	11mm	25mm	3mm
IBSHY32-365	558587	32mm ²	365mm	11mm	25mm	3mm

Catalogusnummer	Artikelnummer	Dwarsprofiel	Lengte (L)	A	B	C
IBSHY32-430	558588	32mm ²	430mm	11mm	25mm	3mm
IBSHY32-500	558589	32mm ²	500mm	11mm	25mm	3mm
IBSHY32-565	558591	32mm ²	565mm	11mm	25mm	3mm
IBSHY32-630	558592	32mm ²	630mm	11mm	25mm	3mm
IBSHY32-700	558593	32mm ²	700mm	11mm	25mm	3mm
IBSHY32-765	558594	32mm ²	765mm	11mm	25mm	3mm
IBSHY32-830	558595	32mm ²	830mm	11mm	25mm	3mm

Table 2/2				
Catalogusnummer	Artikelnummer	D	Gatgrootte 1 (HS1)	Gatgrootte 2 (HS2)
IBSHY32-230	558584	5mm	6.5mm	10.5mm
IBSHY32-330	558586	5mm	6.5mm	10.5mm
IBSHY32-365	558587	5mm	6.5mm	10.5mm
IBSHY32-430	558588	5mm	6.5mm	10.5mm
IBSHY32-500	558589	5mm	6.5mm	10.5mm
IBSHY32-565	558591	5mm	6.5mm	10.5mm
IBSHY32-630	558592	5mm	6.5mm	10.5mm
IBSHY32-700	558593	5mm	6.5mm	10.5mm
IBSHY32-765	558594	5mm	6.5mm	10.5mm
IBSHY32-830	558595	5mm	6.5mm	10.5mm

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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.

Maximum Ampacity Ratings															
Cross Section (mm ² /kcmil)	ΔT 30° C (A)	ΔT 35° C (A)	ΔT 40° C (A)	ΔT 45° C (A)	ΔT 50° C (A)	ΔT 55° C (A)	ΔT 60° C (A)	ΔT 65° C (A)	ΔT 70° C (A)	ΔT 75° C (A)	ΔT 80° C (A)	ΔT 100° C (A)	ΔT 120° C (A)	2 stangstroomcoëfficiënt	3 stangstroomcoëfficiënt
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
Referentienummer	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

DIAGRAMMEN



WAARSCHUWING

nVent-producten moeten alleen worden geïnstalleerd en gebruikt zoals aangegeven in de instructiebladen en trainingsmateriaal van nVent. Instructiebladen zijn beschikbaar op www.nvent.com en bij uw nVent klantenservicevertegenwoordiger. Onjuiste installatie, misbruik, verkeerde toepassing of ander falen om de instructies en waarschuwingen van nVent volledig te volgen, kan leiden tot productstoringen, schade aan eigendommen, ernstig lichamelijk letsel en de dood en/of uw garantie ongeldig maken.



Ons krachtige merkenportfolio:

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