

IBSHY geïsoleerde gevlochten geleider voor compacte vermogenschakelaars

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

Snelle en gemakkelijke installatie

RoHS-conform

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

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

SPECIFICATIES

Draaddiameter:	0.15mm
Piek kortsluitstroom (IPK):	15kA
Normale stroomwaarde voor toepassingen:	160 A
Max. Bedrijfsspanning, IEC (UI):	1000;1500
Voltooiën:	Ingeblikt
Brandbaar vermogen:	UL® 1441 VW-1
Bedrijfstemperatuur:	-60 to 250 °C

Table 1/2

Catalogusnummer	Artikelnummer	Materiaal	Voldoet aan	Dwarsdoorsnede	Lengte (L)	A
IBSHY32-230	558584	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm ²	230mm	11 mm
IBSHY32-330	558586	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm ²	330mm	11 mm
IBSHY32-365	558587	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm ²	365mm	11 mm
IBSHY32-430	558588	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm ²	430mm	11 mm

Catalogusnummer	Artikelnummer	Materiaal	Voldoet aan	Dwarsdoorsnede	Lengte (L)	A
IBSHY32-500	558589	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm²	500mm	11 mm
IBSHY32-565	558591	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm²	565mm	11 mm
IBSHY32-630	558592	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm²	630mm	11 mm
IBSHY32-700	558593	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm²	700mm	11 mm
IBSHY32-765	558594	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm²	765mm	11 mm
IBSHY32-830	558595	Copper, Siliconen met glasvezel versterkt	IEC® 60439.1, IEC® 61439,1	32mm²	830mm	11 mm

Table 2/2

Catalogusnummer	Artikelnummer	B	C	D	Gatgrootte 1 (HS1)	Gatgrootte 2 (HS2)
IBSHY32-230	558584	25 mm	3 mm	5 mm	6.5 mm	10.5 mm
IBSHY32-330	558586	25 mm	3 mm	5 mm	6.5 mm	10.5 mm
IBSHY32-365	558587	25 mm	3 mm	5 mm	6.5 mm	10.5 mm
IBSHY32-430	558588	25 mm	3 mm	5 mm	6.5 mm	10.5 mm
IBSHY32-500	558589	25 mm	3 mm	5 mm	6.5 mm	10.5 mm
IBSHY32-565	558591	25 mm	3 mm	5 mm	6.5 mm	10.5 mm
IBSHY32-630	558592	25 mm	3 mm	5 mm	6.5 mm	10.5 mm

Catalogusnummer	Artikelnummer	B	C	D	Gatgrootte 1 (HS1)	Gatgrootte 2 (HS2)
IBSHY32-700	558593	25 mm	3 mm	5 mm	6.5 mm	10.5 mm
IBSHY32-765	558594	25 mm	3 mm	5 mm	6.5 mm	10.5 mm
IBSHY32-830	558595	25 mm	3 mm	5 mm	6.5 mm	10.5 mm

AANVULLENDE PRODUCTGEGEVENS

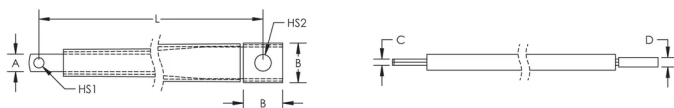
ΔT = Leitetemperatuur – Innentemperatuur des Schaltschranks.

Diese Tabelle zeigt den Temperaturanstieg mit der jeweiligen Stromstärke und dem entsprechenden Querschnitt. Diese Berechnung berücksichtigt nicht die Wärmeabgabe vom Schaltgerät.

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.

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