

Condutor trançado isolado IBS/IBSB Advanced, sem halogênio

Concessionárias de energia

IBS/IBSB Advanced Insulated Braided Conductor, Halogen Free 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. IBS/IBSB Advanced connects to the front access terminals of the breakers without any additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBS/IBSB Advanced is available in cross sections of 25 to 240 mm² (49.34 to 273.65 kcmil), lengths from 230 to 1,030 mm (9.06" to 40.55"), and 80 to 700 A.

Manufactured in an ISO 9001 certified automated facility, IBS/IBSB Advanced is formed by weaving high-quality electrolytic copper wire to form a durable low voltage connector with maximum flexibility which allows for more compact power connections to circuit breakers. The IBS/IBSB Advanced allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The unique manufacturing process of integral pre-punched palms make IBS/IBSB Advanced ready to connect out of the box. There are no lugs to purchase or install, making connections simpler and faster and eliminates faulty connections due to vibration or fatigue.

IBS/IBSB Advanced is compatible with all major brand molded case circuit breakers.

The advanced technology insulation is a high-resistance low smoke, halogen-free and flame retardant thermoplastic.

IBS/IBSB Advanced does not generate corrosive gases and produces a relatively low smoke opacity in accordance with IEC 61034-2 and UL 2885. The low smoke characteristic improves visibility conditions for people to be able to easily locate the emergency exit and also allows rescue workers to better assess an emergency situation. IBS/IBSB Advanced means greater safety for individuals, less damage for your electrical equipment and less environmental impact.



The halogen-free feature enables a reduction in the quantity of toxic smoke. IBS/IBSB Advanced does not contain any halogens, according to IEC 60754-1 and UL 2885, minimizing toxicity and making it the ideal product for use in enclosed spaces such as data centers, rail, and public facilities such as hospitals and schools. This also facilitates the use of IBS/IBSB Advanced in specific applications such as submarines, switchboards and other enclosed environments that require a low emissions solution.

In addition to the above features, IBS/IBSB Advanced is compliant with the UL 94-V0 testing standard and glow wire test 960 °C. A parte à prova de fogo do teste ilustra a característica de auto-extinção. This superior feature of IBS/IBSB Advanced is also shown by the Limiting Oxygen Index (LOI) at 30%. In case of fire, IBS/IBSB Advanced generates a limited quantity of smoke that is less damaging to your electrical equipment.

CERTIFICAÇÕES



RECURSOS

Adequado para todos os principais disjuntores em gabinetes moldados

Resistente à vibração, melhorando a confiabilidade e o desempenho

Insulated by high-resistance, halogen free, flame retardant and low smoke material

Tinned copper provides superior corrosion resistance

Improves assembly flexibility and aesthetics

Instalação rápida e fácil

No additional cutting, stripping, crimping and punching needed

Integral palm without lugs or terminals reduces material and assembly weight

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

DNV GL® and Bureau Veritas certified for marine and offshore applications

Small wire diameter provides maximum flexibility

Dramatically smaller and more flexible than comparable cable based on ampacity

Better power density than cable with lower skin effect ratio

Reduces total installation cost

RoHS compliant

O cobre estanhado permite conexões a condutores de cobre ou de alumínio

On request, can be manufactured with other colors (typically with Orange sleeve for battery connection)

ESPECIFICAÇÕES

Espessura do isolamento:	1,8 mm
Rigidez dielétrica:	20 kV/mm
Insulation Elongation:	500 %
Max Working Voltage, UL 67:	600 VAC/DC
Max Working Voltage, IEC/UL 758:	1.000 VAC;1,500 VDC
Halogen Free Rating:	UL® 2885;IEC® 60754-1;IEC® 62821-1
Low Smoke Rating:	IEC® 61034-2;ISO 5659-2;UL® 2885
UV Resistance Rating:	UL® 2556;UL® 854;IEC® 60 364: AN3 Level
Detalhes da certificação:	UL® 67;UL® 758
Temperatura de trabalho:	-50 a 115°C

Table 1/3

Número do catálogo	Número do artigo	Typical Application Current Rating	Peak Short Circuit Current (Ipk)	Largura do condutor	Espessura do condutor	A
IBSBADV50-630	534411	250 A	30 kA	20 mm	2.8 mm	9 mm
IBSBADV25-230	534400	160 A	14 kA	12 mm	2.8 mm	6.50 mm

Table 2/3

Número do catálogo	Número do artigo	B	C	D	Tamanho do orifício 1 (HS1)	Hole Size 2 (HS2)
IBSBADV50-630	534411	11 mm	27 mm	8 mm	8.5 mm	10.5 mm
IBSBADV25-230	534400	6.5 mm	18 mm	9 mm	6.5 mm	6.5 mm

Table 3/3

Número do catálogo	Número do artigo	Peso da unidade
IBSBADV50-630	534411	0.390 kg
IBSBADV25-230	534400	0.080 kg

ADDITIONAL PRODUCT DETAILS

ΔT = Temperature of conductors – Internal temperature of panel.

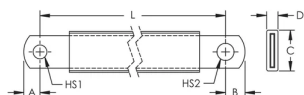
This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

IBSB Advanced Insulated Braided Conductor with a cross section of 240 mm² (473.65 kcmil) is constructed of red copper strands with tinned palms.

Distance between supports must not exceed 630 mm (17.8") according to IEC 61439-1.

Maximum Ampacity Ratings									
Cross Section (mm ² /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

DIAGRAMAS



AVISO

Os produtos nVent devem ser instalados e utilizados apenas conforme indicado nas fichas de instrução do produto e materiais de treinamento da nVent. As fichas de instrução estão disponíveis em www.nVent.com e com nossos representantes de atendimento ao cliente nVent. A instalação inadequada, uso incorreto, aplicação incorreta ou outra falha qualquer em seguir completamente as instruções e avisos da nVent podem levar ao mau funcionamento do produto, danos à propriedade, lesões corporais graves e morte, e/ou anular sua garantia.



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