

IBS Advanced Round Insulated Braided Conductor, Halogen Free

IBS Advanced Round Insulated Braided Conductor, Halogen Free are the ideal ready-to-install flexible wire replacement solution. Round IBS Advanced connect to the terminals of an electrical device without the need for additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. Round IBS Advanced are available in cross sections of 120, 185 and 240 mm² (236.82, 365.10, and 473.65 kcmil), lengths from 330 to 1,030 mm (9.06" to 40.55"), and amperages ranging from 420 to 630 A.

Manufactured in an ISO 9001 2015 certified automated facility, round IBS Advanced 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 electrical devices. The round IBS Advanced allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

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

Round IBS 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 the visibility conditions for people to be able to easily locate the emergency exit and also allows rescue workers to better assess an emergency situation. Round IBS 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. Round IBS 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 round IBS Advanced in specific



applications such as submarines, switchboards and other enclosed environments that require a low emissions solution.

In addition to the above features, round IBS Advanced is also compliant with the UL 94-V0 testing standard and Glow wire test 960 °C. The flame retardant portion of the test illustrates the self-extinguish feature. This superior feature of round IBS Advanced is also shown by the Limiting Oxygen Index (LOI) at 30%. In case of fire, round IBS Advanced generates a limited quantity of smoke that is less damaging to your electrical equipment.

CERTIFICERINGEN



KENMERKEN

Snelle en gemakkelijke installatie

RoHS-conform

Resistant to vibration, improving reliability and performance

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

Tinned copper provides superior corrosion resistance

Improves assembly flexibility and aesthetics

No additional cutting, stripping, crimping and punching needed

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

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

SPECIFICATIES

Draad diameter:	0.15mm
Isolatie dikte:	1.8 mm
Diëlektrische sterkte:	20
Uitzetting isolatie:	500 %
Max. bedrijfsspanning, UL 67:	600
Max. bedrijfsspanning, IEC/UL 758:	1000;1500

Max. bedrijfsspanning, EN 50264-3-1: 6000V

Halogeen vrije classificatie: UL® 2885; IEC® 60754-1; IEC® 62821-1

Rookarm-classificatie: IEC® 61034-2; ISO 5659-2; UL® 2885

Afwerking: Vertind

UV-weerstandsspecificatie: UL® 854; UL® 2556

Certificeringsdetails: UL® 67; UL® 758

Ontvlambaarheidsklasse: UL® 94V-0

Werktemperatuur: -50 to 115 °C

Table 1/3

Catalogusnummer	Artikelnummer	Nominale stroom standaardtoepassing	Materiaal	Voldoet aan	Dwarsprofiel	Geleiderbreedte
IBSADV120-1030	534519	400 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	120mm²	24 mm
IBSADV120-330	534514	400 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	120mm²	24 mm
IBSADV120-430	534515	400 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	120mm²	24 mm
IBSADV120-530	534516	400 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	120mm²	24 mm
IBSADV120-630	534517	400 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	120mm²	24 mm

Catalogusnummer	Artikelnummer	Nominale stroom standaardtoepassing	Materiaal	Voldoet aan	Dwarsprofiel	Geleiderbreedte
IBSADV120-830	534518	400 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	120mm²	24 mm
IBSADV185-1030	534525	500 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	185mm²	24 mm
IBSADV185-330	534520	500 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	185mm²	24 mm
IBSADV185-430	534521	500 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	185mm²	24 mm
IBSADV185-530	534522	500 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	185mm²	24 mm
IBSADV185-630	534523	500 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	185mm²	24 mm

Catalogusnummer	Artikelnummer	Nominale stroom standaardtoepassing	Materiaal	Voldoet aan	Dwarsprofiel	Geleiderbreedte
IBSADV185-830	534524	500 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	185mm²	24 mm
IBSADV240-1030	534531	630 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	240mm²	32 mm
IBSADV240-330	534526	630 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	240mm²	32 mm
IBSADV240-430	534527	630 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	240mm²	32 mm
IBSADV240-530	534528	630 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	240mm²	32 mm
IBSADV240-630	534529	630 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439,1 klasse II	240mm²	32 mm

Catalogusnummer	Artikelnummer	Nominale stroom standaardtoepassing	Materiaal	Voldoet aan	Dwarsprofiel	Geleiderbreedte
IBSADV240-830	534530	630 A	Copper, Thermoplastisch elastomeer	IEC® 60439.1, IEC® 60695-2-11 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439.1 klasse II	240mm ²	32 mm

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Catalogusnummer	Artikelnummer	Geleiderdikte	Lengte (L)	A	Diameter (Ø)	Gatgrootte (HS)
IBSADV120-1030	534519	10 mm	1030mm	12 mm	27 mm	10.5 mm
IBSADV120-330	534514	10 mm	330mm	12 mm	27 mm	10.5 mm
IBSADV120-430	534515	10 mm	430mm	12 mm	27 mm	10.5 mm
IBSADV120-530	534516	10 mm	530mm	12 mm	27 mm	10.5 mm
IBSADV120-630	534517	10 mm	630mm	12 mm	27 mm	10.5 mm
IBSADV120-830	534518	10 mm	830mm	12 mm	27 mm	10.5 mm
IBSADV185-1030	534525	15 mm	1030mm	12 mm	31 mm	10.5 mm
IBSADV185-330	534520	15 mm	330mm	12 mm	31 mm	10.5 mm
IBSADV185-430	534521	15 mm	430mm	12 mm	31 mm	10.5 mm
IBSADV185-530	534522	15 mm	530mm	12 mm	31 mm	10.5 mm
IBSADV185-630	534523	15 mm	630mm	12 mm	31 mm	10.5 mm
IBSADV185-830	534524	15 mm	830mm	12 mm	31 mm	10.5 mm

Catalogusnummer	Artikelnummer	Geleiderdikte	Lengte (L)	A	Diameter (Ø)	Gatgrootte(HS)
IBSADV240-1030	534531	15 mm	1030mm	13 mm	36 mm	12.5 mm
IBSADV240-330	534526	15 mm	330mm	13 mm	36 mm	12.5 mm
IBSADV240-430	534527	15 mm	430mm	13 mm	36 mm	12.5 mm
IBSADV240-530	534528	15 mm	530mm	13 mm	36 mm	12.5 mm
IBSADV240-630	534529	15 mm	630mm	13 mm	36 mm	12.5 mm
IBSADV240-830	534530	15 mm	830mm	13 mm	36 mm	12.5 mm

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Catalogusnummer	Artikelnummer	Gewicht eenheid
IBSADV120-1030	534519	1.6 kg
IBSADV120-330	534514	0.52 kg
IBSADV120-430	534515	0.66 kg
IBSADV120-530	534516	0.8 kg
IBSADV120-630	534517	0.94 kg
IBSADV120-830	534518	1.22 kg
IBSADV185-1030	534525	2.3 kg
IBSADV185-330	534520	0.82 kg
IBSADV185-430	534521	1.07 kg
IBSADV185-530	534522	1.26 kg

Catalogusnummer	Artikelnummer	Gewicht eenheid
IBSADV185-630	534523	1.48 kg
IBSADV185-830	534524	1.9 kg
IBSADV240-1030	534531	3.2 kg
IBSADV240-330	534526	1.07 kg
IBSADV240-430	534527	1.39 kg
IBSADV240-530	534528	1.64 kg
IBSADV240-630	534529	1.93 kg
IBSADV240-830	534530	2.46 kg

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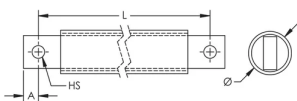
ΔT = Leittertemperatuur – Innentemperatuur des Schaltschranks.

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

Der Abstand zwischen den Stützen darf gemäß IEC 61439-1 nicht mehr als 630 mm (17,8") betragen.

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
120/236.82	325	376	398	420	441	460	497	1.6
185/365.10	407	470	499	526	552	576	622	1.6
240/473.65	488	563	598	630	661	690	745	1.6

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.

Noord-Amerika

+1.800.753.9221
optie 1 – Klantenservice
optie 2 – Technische
ondersteuning

Europa

Nederland:
+31 800-0200135
Frankrijk:
+33 800 901 793

Europa

Duitsland:
800 1890272
andere landen:
+31 13 5835404

APAC

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



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