IBS ADVANCED RONDE GEÏSOLEERDE GEVLOCHTEN GELEIDER, 500 A, 185 MM², 430 MM

CATALOG NUMBER

IBSADV185-430



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. Het vlamvertragende-eigenschappengedeelte van de test demonstreert de zelfdovende eigenschappen. 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.

CERTIFICATIONS

FEATURES

- Bestand tegen trillingen, waardoor de betrouwbaarheid en prestaties erop vooruitgaan
- Insulated by high-resistance, halogen free, flame retardant and low smoke material
- Tinned copper provides superior corrosion resistance
- Improves assembly flexibility and aesthetics
- Snelle en eenvoudige installatie
- 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
- RoHS compliant

PRODUCTKENMERKEN

- Article Number: 534521
- Typical Application Current Rating: 500 A
- Material: Copper;Thermoplastic Elastomer
- Finish: Vertind
- Dielectric Strength: 20
- Flammability Rating: UL® 94V-0
- 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® 854;UL® 2556
- Insulation Elongation: 500 %
- Insulation Thickness: 1,8 mm
- Working Temperature: -50 tot 115 °C
- Max Working Voltage, UL 67: 600
- Max Working Voltage, IEC/UL 758: 1000;1500
- Max Working Voltage, EN 50264-3-1: 6000 V
- Wire Diameter: 0,15 mm
- Certification Details: UL® 67;UL® 758
- Complies With: IEC® 60439.1;IEC® 60695-2-11 (Glow Wire Test 960 °C);IEC® 61439.1;IEC® 61439,1 Class II
- Cross Section: 185 mm²

Conductor Width: 24 mm

Conductor Thickness: 15 mm

Length: 430 mm

A: 12 mm

Diameter: 31 mm

Hole Size: 10,5 mm

Unit Weight: 1,07 kg

ADDITIONAL PRODUCT DETAILS

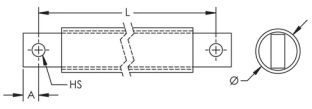
ΔT = Temperature of conductors – Internal temperature of panel.

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.

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**
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

DIAGRAMS



WAARSCHUWING

Producten van nVent moeten worden geïnstalleerd en gebruikt op de manier zoals is aangegeven in de nVent productinformatiebladen en trainingsmaterialen. U kunt de poductinformatiebladen downloaden van www.nvent.com of opvragen bij uw nVent-klantenservice. Door onjuist installeren, verkeerd gebruik, verkeerde toepassing of enige andere handeling in strijd met de instructies en waarschuwingen van nVent kan het product mogelijk niet correct werken, ernstig of fataal letsel en materiële schade veroorzaken en/of uw garantie ongeldig maken.

Noord-Amerika
+1.800.753.9221
Option 1 – Customer Care
Option 2 – Technical Support

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

Europa
Germany:
800 1890272
Other Countries:
+31 13 5835404

APAC
Shanghai:
+ 86 21 2412 1618/19
Sydney:
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