FLEXIBAR ADVANCED, 500 A, 4 X 40 MM X 1 MM, 160 MM², 2M LANG

CATALOG NUMBER

FADV2MTC4X40X1



Na uitgebreid onderzoek stelt nVent ERIFLEX met gepaste trots een nieuwe gouden norm op het gebied van isolatie voor flexibele rails, met de naam nVent ERIFLEX Flexibar, geavanceerd. The new product is low smoke, halogen-free and flame retardant all while maintaining the level of flexibility and reliability that our partners have come to expect from nVent ERIFLEX Flexibar.

Compared to standard PVC insulation, nVent ERIFLEX Flexibar Advanced does not generate corrosive gases and produces a relatively low smoke opacity in accordance with ISO 5659-2. 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 assess an emergency situation more clearly. nVent ERIFLEX Flexibar 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. nVent ERIFLEX Flexibar Advanced does not contain any halogens, according to IEC 60754-1, minimizing toxicity and making it the ideal product for use in enclosed spaces such as data centers, rail and other spaces where people are welcome such as hospitals and schools. This also facilitates the use of nVent ERIFLEX Flexibar Advanced in specific applications such as submarines, switchboards and other enclosed environments that require a low emissions solution.

In addition to being halogen-free, nVent ERIFLEX Flexibar Advanced is also compliant with the UL 94-V0 testing standard. Het vlamvertragende-eigenschappengedeelte van de test demonstreert de zelfdovende eigenschappen. This superior feature of nVent ERIFLEX Flexibar Advanced is also shown by the Limiting Oxygen Index (LOI) at 30%. In case of fire, ERIFLEX Flexibar Advanced generates a limited quantity of smoke that is less damaging to your electrical equipment.

CERTIFICATIONS

FEATURES

Thin layers of tinned electrolytic copper formed into a stack

Full range from 19.5 mm² up to 1200 mm² and 125 A to 2800 A

Insulated by high-resistance, halogen free, flame retardant and low smoke material with less than 20% contact with conductor for high flexibility

Easily bent, folded, and twisted, improving assembly flexibility, shortening connections, and decreasing footprint

Dramatically smaller and more flexible than comparable cable based on ampacity

Better power density than cable with lower skin effect ratio

Connections made by punching and bolting directly through the copper laminates or clamping onto the end of the nVent ERIFLEX Flexibar

No lugs needed, reducing installation time and improving resistance to vibration

Weight savings and material savings compared to wire alternatives

Reduces total installation cost

Traceability codes and designation part numbers printed on insulation

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

100% production dielectric tested

RoHS compliant

Vertind koper maakt het mogelijk om koperen of aluminium geleiders aan te sluiten

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

Compliant to ISO 6469-1 (Electrically propelled road vehicles - Part 1: Rechargeable energy storage system) - Section 6.2.2 Vibrations

PRODUCTKENMERKEN

Article Number: 534032

Typical Application Current Rating, IEC: 500 A

Length: 2000 mm

Finish: Vertind

Material: Copper;Thermoplastic Elastomer

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

Smoke, Toxicity and Acidity Rating: IEC® 60754-2

UV Resistance Rating: UL® 854;UL® 2556

Insulation Elongation: 500 %

Insulation Thickness: 1,8 mm

Max Working Voltage, EN 50264-3-1: 6000 V

Max Working Voltage, UL/CSA/IEC: 1000 V;1500 V

Working Temperature: -50 tot 115 °C

Certification Details: UL® 67;UL® 758

Complies With: IEC® 60695-2-11 (Glow Wire Test 960 °C);IEC® 61439.1;IEC® 61439,1 Class II

ΔT 40 K: 550 A

ΔT 50 K: 615 A

ΔT 60 K: 673 A

Conducting Layers: 4

A: 40 mm

B: 1 mm

Cross Section: 160 mm²

2 Bar Current Coefficient: 1,72

3 Bar Current Coefficient: 2,25

Unit Weight: 3,44 kg

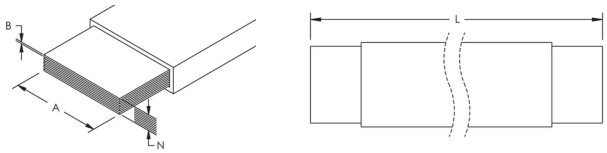
ADDITIONAL PRODUCT DETAILS

ADMISSIBLE CURRENTS: 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.

ΔT = Temperature of conductors – Internal temperature of panel.

Refer to technical documentation for additional ampacity ratings.

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.

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