

NVENT ERIFLEX FLEXBUS CONDUCTOR



nVent ERIFLEX Flexbus Conductor is ready-to-use from one side with direct connection to busbar or circuit-breaker palm. It is an innovative and patented connection solution between two pieces of electrical equipment (such as a transformer, switchboard or generator). Flexbus Advanced maintains a high level of reliability and creates an easy and customizable connection on-site without additional design study, specific specialized workforce or expensive tools. The Flexbus Conductor is insulated with a low-smoke, halogen-free, flame-retardant (LSHFFR), high-temperature and class II material. Flexbus Conductor is a flexible, copper-plated, aluminum flat braid with insulation available from 2 to 10 meters length and under different cross section for 500A to 4500A applications. It allows for connection from the power supply to switchgear with only one conductor per phase up to 1600kVA and with two conductors per phase up to 3150kVA.

CERTIFICATIONS



FEATURES

Flexible insulated copper-plated, aluminum flat braid

Better current/ampacity than cable due to skin effect

Much more flexible than cable

No bending radius to respect

Ready-to-use from one side with direct connection on busbar or circuit breaker palm

Only one conductor per phase from 400kVA (560 A) to 1600kVA (2250 A) and two conductors per phase for 2000kVA (2800 A) to 3150kVA (4435 A)

SPECIFICATIONS

Table 1/6

Catalog Number	Article Number	Connector Finish	Insulation Material	Mechanical Resistance Rating	Euroclass CPR	Nominal Voltage, IEC
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FLEXCOND1280 L10	508058	Tinned	Thermoplastic Elastomer	IK09	Eca - s2, d2, a3	1,000 VAC, 1,500 VDC
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Table 2/6

Catalog Number	Article Number	UV Resistance Rating	Halogen Free Rating	Low Smoke Rating	Insulation Elongation	ΔT 60 K
FLEXCOND1280 L10	508058	UL® 2556, UL® 854, IEC® 60364: AN3 Level	UL® 2885, IEC® 60754-1, IEC® 62821-2	IEC® 61034-2, ISO 5659-2, UL® 2885	500 % Min	1,984 A

Table 3/6

Catalog Number	Article Number	Width 2 (W2)	Width 1 (W1)	Height 1 (H1)	Height 2 (H2)	Length 2 (L2)
FLEXCOND1280 L10	508058	100 mm	108 mm	31.1 mm	18 mm	100 mm

Table 4/6

Catalog Number	Article Number	Length 1 (L1)	Dielectric Strength	2 Bar Current Coefficient, Symmetric	2 Bar Current Coefficient, Non-Symmetric	Working Temperature
FLEXCOND1280 L10	508058	10,000 mm	20 kV/mm	2	1.48	-50 to 115 °C

Table 5/6

Catalog Number	Article Number	Insulation Thickness	Wire Diameter	C	D	B
FLEXCOND1280 L10	508058	2.5 – 3.5 mm	0.20 mm	25 mm	25 mm	50 mm

Table 6/6

Catalog Number	Article Number	A	Unit Weight
FLEXCOND1280L10	508058	50 mm	56.800 kg

Installation Standard:

AS 3008;BS 7671;CEI 64-8;CSN;DIN VDE 0100;HD 384;IEC® 60364;NBR 5410;NEN 1010;NFC 15-100;NIBT-NIN;NP (2002);ÖNORM;REBT;RGIE-AREI

ADDITIONAL PRODUCT DETAILS

Optional extender available for more connection possibilities.

Current Coefficient According to Temperature Rise								
Temperature Rise	$\Delta T\ 30^{\circ}\text{C}$	$\Delta T\ 40^{\circ}\text{C}$	$\Delta T\ 45^{\circ}\text{C}$	$\Delta T\ 50^{\circ}\text{C}$	$\Delta T\ 55^{\circ}\text{C}$	$\Delta T\ 60^{\circ}\text{C}$	$\Delta T\ 65^{\circ}\text{C}$	$\Delta T\ 70^{\circ}\text{C}$
Derating Coefficient	0.71	0.82	0.87	0.91	0.96	1.00	1.04	1.08

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.



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