We connect and protect

nVent ERIFLEX FleXbus Conductor

Power Utilities

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

RoHS

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 1/5						
Catalog Number	**Article Number**	**Length 1 (L1)**	**Length 2 (L2)**	**Connector Finish**	**Insulation Elongation**	**Insulation Thickness**
FLEXCOND1280L10	508058	10,000 mm	100 mm	Tinned	500 % Min	2.5 – 3.5 mm

Table 2/5						
Catalog Number	**Article Number**	**Dielectric Strength**	**Euroclass CPR**	**Halogen Free Rating**	**Low Smoke Rating**	**Mechanical Resistance Rating**
FLEXCOND1280L10	508058	20 kV/mm	Eca - s2, d2, a3	UL® 2885, IEC® 60754-1, IEC® 62821-2	IEC® 61034-2, ISO 5659-2, UL® 2885	IK09

Table 3/5						
Catalog Number	**Article Number**	**UV Resistance Rating**	**Nominal Voltage, IEC**	**Working Temperature**	**ΔT 60 K**	**Width 1 (W1)**
FLEXCOND1280L10	508058	UL® 2556, UL® 854, IEC® 60 364: AN3 Level	1,000 VAC, 1,500 VDC	-50 to 115 °C	1,984 A	108 mm

Table 4/5						
Catalog Number	**Article Number**	**Width 2 (W2)**	**Height 1 (H1)**	**Height 2 (H2)**	**Unit Weight**	**A**
FLEXCOND1280L10	508058	100 mm	31.1 mm	18 mm	56.800 kg	50 mm

Table 5/5						
Catalog Number	**Article Number**	**B**	**C**	**D**	**2 Bar Current Coefficient, Non-Symmetric**	**2 Bar Current Coefficient, Symmetric**
FLEXCOND1280L10	508058	50 mm	25 mm	25 mm	1.48	2

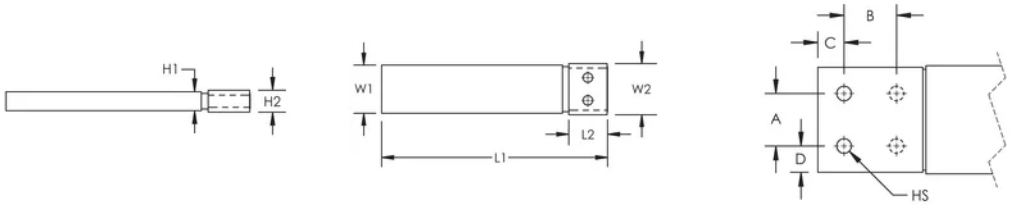
Installation Standard: AS 3008;BS 7671;CEI 64-8;CSN;DIN VDE 0100;HD 384;IEC® 60364;NBR 5410;NEN 1010;NFC 15-100;NIBT-NIN;NP (2002);ÖNORM;REBT;RGIE-AREI

ADDITIONAL PRODUCT DETAILS

Optional extender available for more connection possibilities.

Current Coefficient According to Temperature Rise								
Temperature Rise	ΔT 30°C	ΔT 40°C	ΔT 45°C	ΔT 50°C	ΔT 55°C	ΔT 60°C	ΔT 65°C	ΔT 70°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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