



CONTACT

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Speed Up your Operations

Choose the ENERGYFLEX® BE-FAST option and cut installation time by up to 60%. Delivered in twisted pairs, featuring pre-stripped conductors that can be easily separated without tools, the product ensures quick polarity identification and simplifies installation at every step.

STANDARDS

Producto EN 50618; IEC 60228; IEC 62930

KEY CHARACTERISTICS

Características eléctricas	
Tensión nominal de servicio Uo/U	1.0/1.0 (1.2) kV AC 1.5/1.5 (1.8) kV DC
Resistencia máxima del conductor en CC a 20° C	5,09 Ohm/km
Permissible current rating in air 60°C	40 A
Permissible current rating on a tray 60°C	38 A
Permissible short circuit current conductor 1s	0,5 kA

DESIGN

Double cores solar cable with low smoke, halogen free, crosslinked insulation and sheath.

1. Conductor

Stranded tinned copper wires class 5 acc. IEC 60228

2. Insulation

Cross-linked halogen-free rubber
 Colour: white

3. Sheath

Cross-linked halogen-free fire retardant rubber
 Colour: black

Example of marking: ENERGYFLEX® USE < HAR > H1Z2Z2-K 62930 IEC 131 1 x S mm² 1.5/1.5 (1,8) kV DC NEXANS 269 MADE IN FRANCE Dca

FEATURES

ENERGYFLEX® cables are dedicated to the photovoltaic system direct current (D.C.) side with a nominal D.C. voltage of 1.5 kV and a maximum D.C. voltage of 1.8 kV. Cable suitable to be used with Class II equipment.

These cables are suitable for permanent outdoor long-term use, under variable and harsh climate conditions. They are designed and tested to operate at a normal maximum conductor temperature of 90°C and for 20,000 hours up to 120°C. Therefore, the expected period use is 30 to 40 years under normal usage conditions (lifetime according to Arrhenius Diagram).

ENERGYFLEX® cables have a suitable behaviour in water : tests of Annexes D and E of H07RN8F AD8 cables (100 days at 50 °C under 1 kV AC without breakdown), and additional test of 1,5 year in hot water (85°C) under 1 kV DC without breakdown. They are suitable for submerged installations with a maximum cumulated immersion periods of 10 years in the field.

All drawings, diagrams, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxéo is indicative only and shall not be binding on Lynxéo or be treated as constituting a representation on the part of Lynxéo.



Flexibilidad del conductor
Flexible, Clase 5



Libre de halógenos
IEC 60754-1



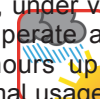
Tensión de servicio Uo/U incendio
1.0/1.0 (1.2) kV AC EN 50575
1.5/1.5 (1.8) kV DC IEC 60332-1-2



Densidad de los humos
IEC 61034-2



Corrosividad de los gases
Baja IEC 60754-2



Resistencia a la intemperie
Excelente

CHARACTERISTICS**Características de construcción**

Construction type	
Material del conductor	Cobre estañado
Flexibilidad del conductor	Flexible, Clase 5
Aislamiento	Cross-linked halogen free rubber
Cubierta exterior	Cross-linked halogen free rubber
Libre de halógenos	IEC 60754-1

Características dimensionales

Number of cables	2
Sección del conductor	4 mm ²
Nominal conductor diameter	2,5 mm
Nominal insulation thickness	0,7 mm
Nominal outer sheath thickness	0,8 mm
Diámetro exterior mínimo	- mm
Diámetro exterior nominal	5,7 mm
Diámetro exterior máximo	- mm
Approximate diameter of the bunched cable	11,8 mm
Peso aproximado	128 kg/km

Características eléctricas

Tensión nominal de servicio U _o /U	1.0/1.0 (1.2) kV AC 1.5/1.5 (1.8) kV DC
Operating Voltage V _o DC	1500 V
Resistencia máxima del conductor en CC a 20° C	5,09 Ohm/km
Permissible current rating in air 60°C	40 A
Permissible current rating on a tray 60°C	38 A
Permissible short circuit current conductor 1s	0,5 kA

Características de uso

No propagador del incendio	EN 50575
No propagación de la llama	IEC 60332-1-2
Densidad de los humos	IEC 61034-2
Corrosividad de los gases	Baja IEC 60754-2
Resistencia a la intemperie	Excelente
Resistencia al ozono	EN 50396
Thermal endurance	IEC 60216-1-2
Temperatura ambiente de utilización (rango)	-40 ... 90 °C
Temperatura máxima operativa	120 °C
Temperatura máxima del conductor en corto-circuito	250 °C
Estanqueidad	-

LIST OF CERTIFICATES

NF EN 50618: BUREAU VERITAS LCIE licence 662568
IEC 62930: BUREAU VERITAS Certificate of conformity 158416-729944
Construction Product Regulation (CPR) Performance: Dca-s2,d2,a1