



CONTACT

Market information
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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

Product EN 50618; IEC 60228; IEC 62930

KEY CHARACTERISTICS

U ₀ /U (Um)	1.0/1.0 (1.2) kV AC	1.5/1.5 (1.8) kV DC
20 ° C	DC	
Permissible current rating in air 60 ° C	5.09 Ohm/km	
Permissible current rating on a tray 60 ° C	40 A	
Permissible short circuit current conductor 1s	38 A	
	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 acc. to Arrhenius Diagram).

ENERGYFLEX® cables have a suitable behaviour in water : tests of Annexes D and E on 107RN8F Ad8 cables (100 days at 50 ° C under 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 period of 6 months / year.



Conductor flexibility 5



Halogen free IEC 60754 - 1



CHARACTERISTICS

Conductor flexibility	Tin plated copper	5
Halogen free	Cross - linked halogen free rubber	IEC 60754 - 1
Number of cables		2
Nominal conductor diameter		4 mm ²
Nominal insulation thickness		2.5 mm
Nominal outer sheath thickness		0.7 mm
Minimum outer diameter		0.8 mm
Nominal outer diameter		- mm
Maximum outer diameter		5.7 mm
Approximate diameter of the bunched cable ()		- mm
U _o /U (U _m)		11.8 mm
Operating Voltage V _o DC		128 kg/km
20 ° C DC		1.0/1.0 (1.2) kV AC 1.5/1.5 (1.8) kV DC
Permissible current rating in air 60 ° C		1500 V
Permissible current rating on a tray 60 ° C		5.09 Ohm/km
Permissible short circuit current conductor 1s		40 A
Fire retardant		38 A
Gases corrosivity		0.5 kA
Weather resistance		EN 50575
Ozone resistance		IEC 60332 - 1 - 2
Thermal endurance		IEC 61034 - 2
操作度范		IEC 60754 - 2
Short - circuit max. conductor temperature		Excellent
Water proof		EN 50396
		IEC 60216 - 1 - 2
		- 40 ... 90 ° C
		120 ° C
		250 ° C
		-

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