



## 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 <sub>0</sub> /U (Um)	1.0/1.0 (1.2) kV AC	1.5/1.5 (1.8) kV DC
20 ° C	DC	1.95 Ohm/km
Permissible current rating in air 60 ° C		70 A
Permissible current rating on a tray 60 ° C		68 A
Permissible short circuit current conductor 1s		1.4 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 mm<sup>2</sup> 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 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 period of 6 months / year.



Conductor flexibility



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		10 mm <sup>2</sup>
Nominal insulation thickness		4 mm
Nominal outer sheath thickness		0.7 mm
Minimum outer diameter		0.8 mm
Nominal outer diameter		- mm
Maximum outer diameter		7.3 mm
Approximate diameter of the bunched cable ( )		- mm
Uo/U (Um)		15.0 mm
Operating Voltage Vo DC		260 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		1.95 Ohm/km
Permissible short circuit current conductor 1s		70 A
Fire retardant		68 A
Gases corrosivity		1.4 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