



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

Product EN 50618; IEC 60228; IEC 62930

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 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 period of 6 months / year.



无卤
IEC 60754-1



额定电压U₀/U
1.0/1.0 (1.2) kV
AC 1.5/1.5 (1.8)
kV DC



阻燃
EN 50575



阻燃 - 火焰
IEC 60332-1-2



烟密度
IEC 61034-2



气体腐蚀性
低 IEC 60754-2



耐气候性
优异



操作温度
-40 ... 90 ° C

CHARACTERISTICS

结构特性	
无卤	IEC 60754-1
尺寸特性	
电缆数	2
标称绝缘厚度	0.7 mm
Nominal outer sheath thickness	0.8 mm
电气特性	
额定电压U ₀ /U	1.0/1.0 (1.2) kV AC 1.5/1.5 (1.8) kV DC
使用特性	
阻燃	EN 50575
阻燃 - 火焰	IEC 60332-1-2
烟密度	IEC 61034-2
气体腐蚀性	低 IEC 60754-2
耐候性	优异
Ozone resistance	EN 50396
Thermal endurance	IEC 60216-1-2
操作温度范围	-40 ... 90 ° C
最高工作温度	120 ° C
防水	优异

DIMENSIONAL CHARACTERISTICS

Cross section [mm ²]	Nom. cond. diam. [mm]	Nom. insulation thick. [mm]	Nom. outer sheath thick. [mm]	Nom. outer diam. [mm]	Approx. diam. bunched cable [mm]	Approx. weight [kg/km]
4	2.5	0.7	0.8	5.7	11.8	128
6	2.9	0.7	0.8	6.2	12.8	165
10	4	0.7	0.8	7.3	15.0	260

ELECTRICAL CHARACTERISTICS

Cross section [mm ²]	Max. DC Resist. 20° C [0hm/km]	Cond. Perm. current rat. air 60° C [A]	Perm. current rating tray 60° C [A]	short circuit conductor 1s [kA]
4	5.09	40	38	0.5
6	3.39	51	49	0.8
10	1.95	70	68	1.4

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