



## CONTACT

Market information  
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## Unmatched fire-proof safety

The ENERGYFLEX® B2ca patented solar cable is designed to have outstanding reaction to fire, allowing it to be combustible but with very little burning.

## STANDARDS

**Produkt** EN 50575; EN 50618; IEC 60228; IEC 62930

## DESIGN

Single core fire resistance 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® B2ca USE < HAR > H1Z2Z2-K 62930 IEC 131 1 x S mm<sup>2</sup> 1.5/1.5 (1,8) kV DC lynxéo 269 MADE IN FRANCE B2ca-s1,d2

## FEATURES

ENERGYFLEX® B2ca 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® B2ca cables have CPR classification: B2ca-s1,d2,a1 according to EN 50575

- B2ca: combustible but very little burning
- s1: very low smoke production (best in class)
- d2: some flaming droplets
- a1: very low acidity of smoke (best in class)



Halogenfrei  
 IEC 60754-1



Nennspannung U<sub>o</sub>/  
 U  
 1.0/1.0 (1.2) kV AC  
 1.5/1.5 (1.8) kV DC



Flammwidrig  
 EN 50575



Flammwidrig  
 IEC 60332-1-2



Rauchdichte  
 IEC 61034-2



Korrosivität der  
 (Brand-)Gase  
 niedrig, gem. IEC  
 60754-2



Witterungsbeständig  
 Excellent



Betriebstemp.  
 -40 ... 90 °C

**CHARACTERISTICS****Konstruktionsmerkmale**

Halogenfrei	IEC 60754-1
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**Abmessungsmerkmale**

Wanddicke Isolierung, Nennwert	0,7 mm
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**Elektrische Eigenschaften**

Nennspannung U <sub>o</sub> /U	1.0/1.0 (1.2) kV AC 1.5/1.5 (1.8) kV DC
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**Anwendungsmerkmale**

Flammwidrig	EN 50575
Flammwidrig	IEC 60332-1-2
Rauchdichte	IEC 61034-2
Korrosivität der (Brand-)Gase	niedrig, gem. IEC 60754-2
Witterungsbeständig	Excellent
Ozonbeständigkeit	EN 50396
Thermal endurance	IEC 60216-1-2
Betriebstemperatur	-40 ... 90 °C
Max. Betriebstemperatur	120 °C

**DIMENSIONAL CHARACTERISTICS**

Querschnitt [mm <sup>2</sup> ]	Nom. cond. diam. [mm]	Nom. outer sheath thick. [mm]	Max. Außendurchmesser [mm]	Gewicht ca. [kg/km]
4	2,5	1,8	7,6	85
6	2,9	1,5	7,6	98

**ELECTRICAL CHARACTERISTICS**

Querschnitt [mm <sup>2</sup> ]	Max. DC Resist. Cond. 20°C [Ohm/km]	Perm. current rat. air 60°C [A]	Perm. current rating tray 60°C [A]	short circuit conductor 1s [kA]
4	5,09	55	52	0,5
6	3,39	70	67	0,8

**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: B2ca-s1,d2,a1