



CONTACT

Market information
 industryprojects.business@lynxeo
 group.com

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

Produkt 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.



Halogenfrei
 IEC 60754-1



Nennspannung Uo/
 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
-------------	-------------

Abmessungsmerkmale

Anzahl der Kabel	2
Wanddicke Isolierung, Nennwert	0,7 mm
Wanddicke Außenmantel, Nennwert	0,8 mm

Elektrische Eigenschaften

Nennspannung U ₀ /U	1.0/1.0 (1.2) kV AC 1.5/1.5 (1.8) kV DC
--------------------------------	---

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
Wasserdicht	AD8

DIMENSIONAL CHARACTERISTICS

Querschnitt [mm ²]	Nom. cond. diam. [mm]	Nom. insulation thick. [mm]	Nom. outer sheath thick. [mm]	Außendurchmesser, nom. [mm]	Approx. diam. bunched cable [mm]	Gewicht ca. [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

Querschnitt [mm ²]	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	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