



CONTACT

Market information
industryprojects.business@lynxéogroup.com

Outstanding water proof performance

The ENERGYFLEX® WR patented solar cable is designed to withstand humid or immersed installations over its lifetime.

STANDARDS

Product EN 50618; IEC 60228; IEC 62930

DESIGN

Single core water resistant 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® IWR USE < HAR > H1Z2Z2-K 62930 IEC 131 PV1500-WR 1 x S mm² 1.5/1.5 (1,8) kV DC lynxéo 269 HALOGEN FREE LOW SMOKE Dca

FEATURES

ENERGYFLEX® WR 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® WR cables have been put under testing protocol TÜV 2Pfg 2750/09.20 – Requirements for cables with improved water resistance for installation in photovoltaic-systems 84 days (2,016 hours) / 90°C / 3,6 KV DC (vs 1,8 kV DC at 85° C during 240 hours for IEC 62930 / EN 50618 cables). They are suitable for installations immersed in water for 12 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



防水
优异



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

CHARACTERISTICS

结构特性

无卤

IEC 60754-1

电气特性

额定电压U₀/U

1.0/1.0 (1.2) kV AC 1.5/1.5 (1.8) kV DC

使用特性

防水

优异

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

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

DIMENSIONAL CHARACTERISTICS

Cross section [mm ²]	Nom. cond. diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
4	2.5	6.8	77
6	2.9	7.3	95
10	4	8.2	140

ELECTRICAL CHARACTERISTICS

Cross section [mm ²]	Max. DC Resist. 20° C [Ωhm/km]	Cond. 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	5.09	50	67	0.8
10	3.39	98	93	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