

Li2XY RV-K

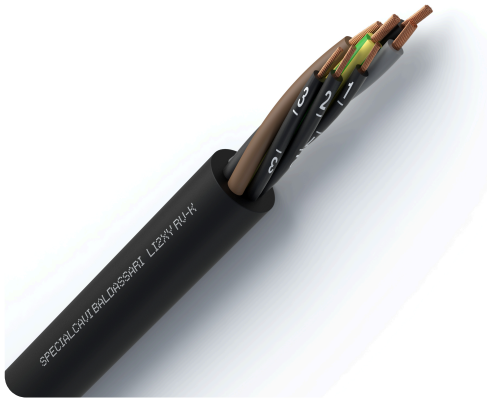
CPR CLASS: EN 50575:2014+A1:2016 Dca-s3,d2,a3

Application

Energy and control cable for photovoltaic and solar systems, compliant with CPR EU Regulation 305/1, designed to limit the spread of fire and smoke. UV and weather resistant, ideal for outdoor laying. It guarantees high performances in harsh environmental conditions, making it perfect for solar system applications. Buried laying (direct and with protection) and outdoor laying are allowed. AD7 water presence condition.

Marking

<meters> CE 0987 SPECIALCAVI BALDASSARI LI2XY RV-K <formation> mm2 0.6/1kV DCA-S3,D2,A3 <lot> <year>



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Manufacturing characteristics

- Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- Insulation:** crosslinked polyethylene (XLPE) compound, according to CEI 20-11
- Outer sheath:** polyvinyl chloride (PVC) compound, flame retardant and UV resistant
- Outer sheath colour:** black, based on RAL 9005
- Cable geometry:** round

On request

- Custom cores and outer sheath colouring

Reaction to fire - EN 13501-6

Reaction to fire according to EN 13501-6: Class
Dca

Reaction to fire according to EN 13501-6: Smoke production
s3

Reaction to fire according to EN 13501-6: Flaming droplets/particles
d2

Reaction to fire according to EN 13501-6: Acidity
a3

Specify standards

CPR standard for reaction to fire

Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test: EN 50399

Electrical characteristics

Nominal voltage U_0 :

- 600V

Nominal voltage U :

- 1000V

Sheath operating voltage:

- 600/1000V

Test voltage:

- 4,0kV 50Hz A.C. (5 min) c-c

Maximum voltage:

- U_0/U 1800/1800V D.C.
- U_0/U 693/1200V A.C.

Minimum insulation resistance:

- >200M Ω xKm

Temperatures

Permitted cable outer temperature during assembling/handling

-5°C

Operating temperature range

-25°C | +90°C

Maximum conductor temperature

+90°C

Maximum short-circuit temperature

+250°C

Product characteristics

Flame retardant	IEC 60332-1-2	✓
	IEC 60332-3-21 (Cat A F/R)	✗
	IEC 60332-3-22 (Cat A)	✗
	IEC 60332-3-23 (Cat B)	✗
	IEC 60332-3-24 (Cat C)	✗
	IEC 60332-3-25 (Cat D)	✗
Low smoke	EN IEC 61034-2	✗
Halogen Free	EN IEC 60754-1	✗
	EN IEC 60754-2	✗
	EN IEC 60754-3	✗

Oil resistant	EN IEC 60811-404	✗
Low temperature resistant	EN 60811-504+505+506	✓
UV resistant	ISO 4892-2 (QUV A test)	✓
	Aging hours	500 h
Ozone resistant		✗
Hydrocarbons resistant	ENI 181	✗
Fire resistant	IEC 60331-1 (diameter > 20 mm) or EN 50200 (diameter < 20 mm)	✗
Presence of water	HD 60364-5-54:2009	AD7
Impact resistant	HD 60364-5-54:2009	✗

Laying conditions

 FIXED LAYING ✓	 INDOOR LAYING ✓	 LAYING IN AIR WITH PROTECTION ✓	 MAXIMUM TENSILE STRENGTH DURING INSTALLATION 0,050 kN copper cross-section of conductors
 MOBILE LAYING ✗	 OUTDOOR LAYING ✓	 DIRECTLY BURIED LAYING ✓	 WITH RODENT PROTECTION ✗
 OCCASIONAL MOBILE LAYING W/O STRESS ✗	 LAYING IN FREE AIR ✓	 BURIED LAYING WITH PROTECTION ✓	 MINIMUM BENDING RADIUS 10 times the outer diameter

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Nominal cross section conductor	Conductor resistance at 20°C
[mm ²]	[Ohm/Km]
1.50 0.50	13,3 39,0

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Article code	Formation	Twisted/stranded cores	Outer diameter approx	Weight approx	Cores colour
	[n° x mm ²]		[mm]	[Kg/Km]	
LI2XY1500405003	4 G 1,50 + 3 X 0,50	Cores stranded in concentric layers	11,7	181	Green/Yellow section 1,50 mm ² -Brown section 1,50 mm ² -Black section 1,50 mm ² -Grey section 1,50 mm ² -Black cores with progressive numbering section 0,50 mm ²