

# Li2XCYK

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

## Application

Single-core cable, ideal for energy transmission, with insulation and shielding designed to protect against electromagnetic interference. Compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for both industrial and residential applications. It offers reliable fire protection and dielectric properties. Buried laying (direct and with protection) and outdoor laying are allowed. AD7 water presence condition.

## Marking

<meters> CE 0987 SPECIALCAVI BALDASSARI LI2XCY <formation> mm2 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
- Wrapping and protection:** polyester tape
- Screen:** tinned copper braid
- Outer sheath:** polyvinyl chloride (PVC) compound, flame retardant
- Outer sheath colour:** black, based on RAL 9005
- Cable geometry:** round

## 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:**

- 3,0kV 50Hz A.C. (1 min) c-s

**Maximum voltage:**

- $U_0/U$  900/1800V D.C.
- $U_0/U$  700/1200V A.C.

**Minimum insulation resistance:**

- >200M $\Omega$ xKm

## Temperatures

Permitted cable outer temperature during assembling/handling  
**-15°C**

Operating temperature range  
**Fixed laying: -40°C | +90°C**  
**Occasional mobile laying w/o stress: -15°C | +90°C**

Maximum conductor temperature  
**Fixed laying: +90°C**  
**Occasional mobile laying w/o stress: +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

 <p><b>FIXED LAYING</b> ✓</p>	 <p><b>INDOOR LAYING</b> ✓</p>	 <p><b>LAYING IN AIR WITH PROTECTION</b> ✓</p>	 <p><b>MAXIMUM TENSILE STRENGTH DURING INSTALLATION</b> 0,050 kN copper cross-section of conductors</p>
 <p><b>MOBILE LAYING</b> ✗</p>	 <p><b>OUTDOOR LAYING</b> ✓</p>	 <p><b>DIRECTLY BURIED LAYING</b> ✓</p>	 <p><b>WITH RODENT PROTECTION</b> ✗</p>
 <p><b>OCCASIONAL MOBILE LAYING W/O STRESS</b> ✓</p>	 <p><b>LAYING IN FREE AIR</b> ✓</p>	 <p><b>BURIED LAYING WITH PROTECTION</b> ✓</p>	 <p><b>MINIMUM BENDING RADIUS</b> Fixed: Up to 20 mm approx. 7,5 times the outer diameter &gt; 20 mm approx. 10 times the outer diameter Occasional mobile laying w/o stress: Up to 20 mm approx. 15 times the outer diameter &gt; 20 mm approx. 20 times the outer diameter</p>

Nominal cross section conductor [mm <sup>2</sup> ]	Conductor resistance at 20°C [Ohm/Km]
50.00	0,386
70.00	0,272
95.00	0,206
120.00	0,161
150.00	0,129
185.00	0,106
240.00	0,0801
300.00	0,0641
400.00	0,0486
630.00	0,0287

## Li2XCYK

Article code	Formation [n° x mm <sup>2</sup> ]	Outer diameter approx [mm]	Weight approx [Kg/Km]	Cores colour
LI2XCY500001	1 X 50,00	15,7	690	Black
LI2XCY700001	1 X 70,00	18,3	950	Black
LI2XCY950001	1 X 95,00	20,1	1235	Black
LI2XCY1200001	1 X 120,00	22,6	1545	Black
LI2XCY1500001	1 X 150,00	23,8	1870	Black
LI2XCY1850001	1 X 185,00	26,0	2255	Black
LI2XCY2400001	1 X 240,00	29,0	2880	Black
LI2XCY3000001	1 X 300,00	32,0	3545	Black
LI2XCY4000001	1 X 400,00	37,1	4850	Black
LI2XCY6300001	1 X 630,00	46,0	7700	Black