

## Lyonipompe 90 XLPE/PVC Flat Cables

**Flat Cables Food Grade**  
**0.6/1 kV**

### Description

#### Application

Submersible pump power supply cables must have excellent water tightness and very good insulation. Cross-linked polyethylene is the material that meets these requirements. The flat shape makes it possible to small overall dimensions.

The designed materials are permitted for use in drinking water.

Maximum use depth: up to 200 m.

#### Design

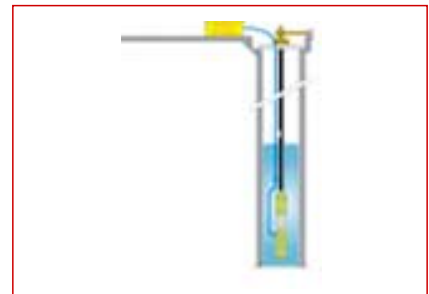
1. Conductor:
  - Bare copper
  - Flexible class 5
  - IEC 60228
2. Insulation: XLPE (cross-linked polyethylene)
3. Outer sheath:
  - PVC
  - Colour: blue

#### Marking

LYONIPOMPE 90 - 1kV - n (G) S mm<sup>2</sup> - NEXANS - 205 CE - ACS 03 MAT LY 034

#### Core identification

- 3 cores: black - grey - green/yellow
- 4 cores: black - grey- brown - green/yellow



### Related Information





#### Bending Radius

$r = 5 \times \text{external diameter}$

(to be doubled during laying operations)

#### Contact

Nexans - Special cables  
 170 avenue Jean Jaurès  
 69353 Lyon Cedex 07  
 France  
[virginie.greppa@nexans.com](mailto:virginie.greppa@nexans.com)

 Mechanical resistance to impacts Good	 Cable flexibility Flexible	 Water proof Excellent	 Operating temperature, range -20 .. 60 °C
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## Lyonipompe 90 XLPE/PVC Flat Cables

### Characteristics

<b>Construction characteristics</b>	
Conductor material	Bare copper
Conductor flexibility	Flexible class 5
Insulation	XLPE
Outer sheath	PVC
Sheath colour	Blue
<b>Electrical characteristics</b>	
Rated Voltage U <sub>0</sub> /U	0.6/1 (1.2) kV
<b>Mechanical characteristics</b>	
Mechanical resistance to impacts	Good
Cable flexibility	Flexible
<b>Usage characteristics</b>	
Water proof	Excellent
Operating temperature, range	-20 .. 60 °C
Water temperature, range	5 .. 60 °C
Maximum core temperature still	90 °C

### Lyonipompe 90 PE/PVC

Nb. of cores	Cross section mm <sup>2</sup>	External dimensions	Perm. current rating open air A	Voltage drop, single phase V/A.km	Approx. weight kg/km
3	1.5	13.0 x 6.0 mm	29	21.5	90
3	2.5	14.0 x 6.0 mm	38	12.8	125
3	4	16.0 x 7.0 mm	53	8.0	180
3	6	18.0 x 7.0 mm	69	5.4	235
3	10	22.0 x 9.0 mm	98	3.2	390
3	16	26.0 x 11.0 mm	127	2.1	600
3	25		173	1.35	920
3	35	36.0 x 14.0 mm	219	1.0	1280
3	50	40.0 x 16.0 mm	276	0.75	1720
3	70	48.0 x 19.0 mm	345	0.55	2460
4	1.5	16.0 x 5.0 mm	29	21.5	115
4	2.5	20.0 x 6.0 mm	38	12.8	170
4	4	22.0 x 7.0 mm	53	8.0	240
4	6	24.0 x 7.0 mm	69	5.4	330
4	10	29.0 x 9.0 mm	98	3.2	530
4	16	35.0 x 10.0 mm	127	2.1	810
4	25	44.0 x 13.0 mm	173	1.35	1220
4	35	48.0 x 14.0 mm	219	1.0	1700
4	50	54.0 x 16.0 mm	276	0.75	2500