

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

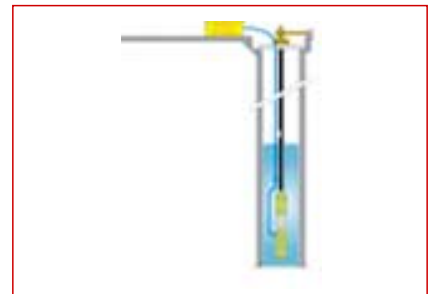
1. Conductor:
 - Bare copper
 - Flexible class 5
 - IEC 60228
2. Insulation: XLPE (cross-linked polyethylene)
3. Outer sheath:
 - PVC
 - Colour: blue

Marking

LYONIPOMPE 90 - 1kV - n (G) S mm² - 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

 Mechanical resistance to impacts Good	 Cable flexibility Flexible	 Water proof Excellent	 Operating temperature, range -20 .. 60 °C
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Characteristics

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

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Nb. of cores	Cross section mm ²	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