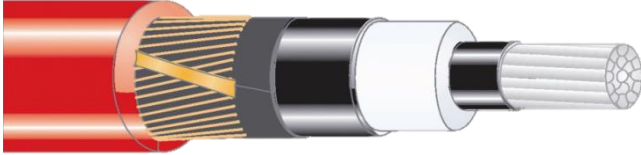


Power Distribution – High Voltage

PEX-AL-LT 36/60 (72,5) kV – Halogen free



Application

Longitudinal water tight utility cable.
UV-stabilized and halogen free.
Suitable for installation in pipes and directly buried.
Can be installed by plowing

Standard

IEC 60228
IEC 60840

Conductor construction
Construction standard

Construction

Conductor	Round, stranded aluminium acc. IEC 60228 class 2. Longitudinal water tight
Conductor screen	Extruded conductive polymer
Insulation	XLPE
Insulation screen	Extruded conductive polymer
Longitudinal water tightning	Water swelling tape
Metallic screen	Concentric Cu wire screen with counter spiral
Sheath	UV-Stabilized PE, Red
Marking	PRYSMIAN PEX-AL-LT 1x240+35 72 kV "Date" XXXX m

Temperature

Maximum operating temperature	90 °C
Temperature at installation	Lowest cabeltemperature -15 °C

Properties

Bending radius	Fast oplagt: 13 x D Final installation: 12 x D During installation: 15 x D
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Electrical data

Operating voltage	36/60 (72,5) kV
Test voltage	90 kV AC

Order info

Cross section [mm ²]	Diameter nom. [mm]	Weight [kg/km]	Standard Delivery length [m]	Drum
1x150+25	50	2300	500	K20
1x240+35	52	2500	500	K20
1x300+35	54	2915	500	K22
1x400+50	58	3245	500	K22
1x500+50	61	3670	500	K24
1x630+50	64	4255	500	K26
1x800+50	69	4945	500	K26

* Project specific length are available in case of order

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Dimensions

Cross section [mm ²]	Conductor diameter [mm]	Insulation thickness nom. [mm]	Diameter over insulation [mm]	Screen Cross section [mm ²]	Sheath Thickness nom. [mm]	Diameter nom. [mm]
1x150+25	14,2	12,0	36,9	25	2,5	50
1x240+35	18,1	11,0	41,5	35	2,5	52
1x300+35	20,5	11,0	43,9	35	2,6	54
1x400+50	23,7	10,0	45,0	50	2,7	58
1x500+50	26,6	10,0	48,0	50	2,8	61
1x630+50	30,3	10,0	51,1	50	2,9	64
1x800+50	33,8	10,0	55,7	50	3,0	69

Application data

Cross section [mm ²]	Weight [kg/km]	Bending radius, installation [mm]	Pulling force, conductor [kN]	Pulling force, stocking [kN]
1x150+25	2300	750	4,5	6,3
1x240+35	2500	780	7,2	8,5
1x300+35	2915	810	9,0	10,0
1x400+50	3245	870	12,0	12,5
1x500+50	3670	915	15,0	15,0
1x630+50	4255	960	18,9	18,2
1x800+50	4945	1035	24,0	22,4

Electric data

Cross section [mm ²]	DC resistance 20 °C [Ω/km]	Capacitance per phase [μF/km]	Reactance Trefoil [Ω/km]	Positive sequence impedans** [Ω/km]	Fault current, conductor [kA/1s]	Fault current, Screen [kA/1s]
1x150+25	0,206	0,16	0,14 / 0,21	0,21+j·0,14	14,2	5,0
1x240+35	0,125	0,18	0,13 / 0,20	0,13+j·0,12	22,6	7,0
1x300+35	0,100	0,20	0,12 / 0,19	0,11+j·0,12	28,3	7,0
1x400+50	0,0778	0,22	0,12 / 0,18	0,086+j·0,12	37,8	10,0
1x500+50	0,0605	0,24	0,11 / 0,17	0,070+j·0,11	47,2	10,0
1x630+50	0,0469	0,27	0,11 / 0,17	0,057+j·0,10	59,5	10,0
1x800+50	0,0367	0,29	0,10 / 0,16	0,048+j·0,10	75,6	10,0

* Closed trefoil / Kabel diameter + 70 mm

** Closed trefoil, solid bonded system

PEX-AL-LT 36/60 (72,5) kV - Halogenfri

Ampacity

Cross section [mm ²]	In air				In ground			
	Trefoil		Flat		Trefoil		Flat	
	Open screen A	Closed screen A	Open screen A	Closed screen A	Open screen A	Closed screen A	Open screen A	Closed screen A
1x150+25	380	370	425	395	340	340	360	350
1x240+35	505	490	570	515	450	445	480	450
1x300+35	580	565	650	580	510	505	545	500
1x400+50	695	680	790	680	585	570	625	555
1x500+50	800	775	920	755	670	645	715	620
1x630+50	955	880	1040	840	765	730	820	685
1x800+50	1045	1010	1220	1010	865	815	930	750

Current ratings based on the following

- Operating temperature: 90 °C
- Ambient temperature, air: 25 °C
- Ambient temperature, ground: 15 °C
- Thermal resistivity of soil: 1 K·m/W
- In trefoil: Closed trefoil
- In flat formation: Cable diameter + 70 mm
- Depth of burial: 0,7 m

