

## Power Distribution – Medium Voltage

### PEX-AL-LT 6/10 (12) kV



#### Application

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

#### Standard

HD 620 Part 10-D	Harmonized construction standard
IEC 60228	Conductor construction
IEC 60502-2	Construction standard

#### Konstruktion

Conductor	Round, stranded aluminium acc. IEC 60228 class 2. Longitudinal water tight
Conductor screen	Extruded conductive polymer
Insulation	XLPE nom. 3,4 mm
Insulation screen	Extruded conductive polymer, Stripable
Longitudinal water tightning	Polymer string and Fyldstreng og Halvledende Kvælbånd
Metallic screen	Concentric Cu wire screen with counter spiral Longitudinal water tight
Sheath	UV-Stabilized PE, Red
Marking	PRYSMIAN PEX-AL-LT 3x240+3512 kV "Date" XXXX m

#### Temperature

Maximum operating temperature	90 °C
Temperature at installation	Lowest cabeltemperature -15 °C Below 0 °C caution must be exercised

#### Properties

Bending radius	Final installation: 8 x D During installation: 12 x D Plowed: 8 x D
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#### Electrical data

Operating voltage	6/10 (12) kV
Test voltage	30 kV AC

#### Order info

Cross section [mm <sup>2</sup> ]	Diameter nom. [mm]	Weight [kg/km]	Standard Delivery length [m]	Drum	SAP number
3x150+35	62,5	3025	500	K24	20170210
3x240+35	71,5	4085	500	K26	20170221
3x300+35	77,0	4885	500	K26	20170222

## PEX-AL-LT 6/10 (12) kV – Halogen free

### Dimensions

Cross section [mm <sup>2</sup> ]	Conductor diameter [mm]	Insulation thickness nom. [mm]	Diameter over insulation [mm]	Screen Cross section [mm <sup>2</sup> ]	Sheath Thickness nom. [mm]	Diameter nom. [mm]
3x150+35	14,2	3,4	22,2	35	2,9	62,5
3x240+35	18,1	3,4	26,1	35	3,2	71,5
3x300+35	20,5	3,4	28,6	35	3,3	77,0

### Application data

Cross section [mm <sup>2</sup> ]	Weight [kg/km]	Bending radius, installation [mm]	Bending radius, plowing [mm]	Pulling force, stocking [kN]
3x150+35	3025	750	500	10,0
3x240+35	4085	860	570	13,2
3x300+35	4885	925	620	18,5

### Elektric data

Cross section [mm <sup>2</sup> ]	DC resistance 20 °C [Ω/km]	Capacitance per phase [μF/km]	Reactance Trefoil [Ω/km]	Fault current, conductor [kA/1s]	Fault current, Screen [kA/1s]
3x150+35	0,206	0,38	0,09	14,1	7,0
3x240+35	0,125	0,46	0,09	22,6	7,0
3x300+35	0,100	0,51	0,08	28,3	7,0

### Ampacity

Cross section [mm <sup>2</sup> ]	In Air [A]	In Ground [A]
3x150+35	305	310
3x240+35	400	400
3x300+35	460	450

### 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
- Depth of burrial: 0,7 m

