

PRODUCT SPECIFICATION

EPB51510

Low voltage power cables
 Aluminium conductors
 PVC insulation
 Concentric conductor of annealed, round copper wires
 Flame retardant PVC outer sheath
 All components lead free

Reference standards

IEC 60228, EN 60228
 HD 603-1, HD 603-3J
 Flame Retardant - EN 60332-1-2
 Reaction to fire – EN 50575 (E_{ca})

Rated voltage

0,6 / 1 (1,2) kV

Conductors identification - By colouring of insulation

3 conductors - Brown, Black, Grey
 4 conductors - Brown, Black, Grey, Blue

Outer sheath colour

GREY

Marking

By printing or embossing on the outer sheath with the following details (example):

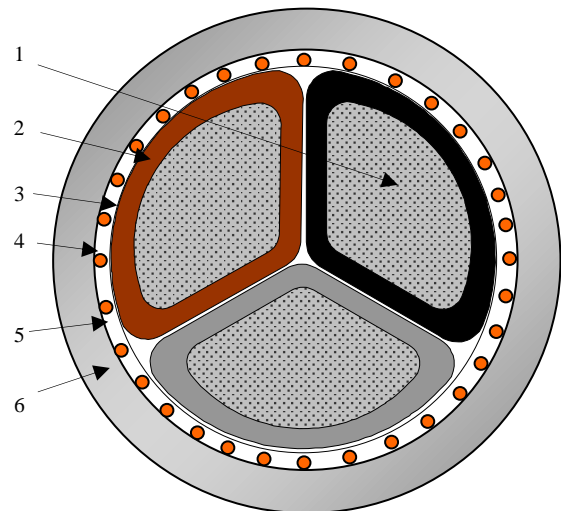
CABELTE PFSP 3x25/10 AL 0,6/1kV Eca Year MM

MM = Metric Marking

Additional information

Maximum temperature in conductor, in normal operation – **90°C**
 Maximum temperature in conductor, in short-circuit (max. 5 seconds) – **250°C**
 Modular lengths – **Drum 400/500/1000** as specified by customer. Note: other modular lengths can be combined between customer and CABELTE.

PFSP AL



Cross sectional drawing

Legend:

- 1 – Round (section $\leq 25\text{mm}^2$) or sector shaped (section $> 25\text{mm}^2$), stranded aluminium conductors, class 2 according to IEC 60228 (EN 60228).
- 2 – PVC insulation.
- 3 – Extruded inner covering applied, over the stranded conductors (round conductors) or a plastic tape spirally applied over the stranded conductors (sector shaped conductors).
- 4 – Concentric conductor with an inner layer of round annealed copper wires and a copper binder tape over the wires.
- 5 – Plastic tape spirally applied, over the concentric conductor.
- 6 – Grey flame retardant PVC.

Mechanical characteristics

Maximum pulling force over conductor (N)	30 x S (S = conductor cross-section)
Minimum bending radius in installation (mm)	10 x D (D = cable outer diameter)
Minimum installation temperature	-10°C
Recommended minimum installation temperature	0°C

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Technical characteristics

	3x25/10	3x50/16	3x95/35	3x150/50	3x240/70
Ahlsell's article number (stock number)	1054350	1054351	1054352	1054353	1054354
Approximated outer diameter (mm)	26	27	35	41	50
Approximated final weight (kg/km)	860	970	1770	2510	3910
Min. bending radius – during installation (mm)	260	270	350	410	500
Capacitance – indicative value (µF/km)	0,194	0,239	0,267	0,299	0,318

	4x25/10	4x50/16	4x95/35	4x150/50	4x240/70
Ahlsell's article number (stock number)	1054355	1054356	1054357	1054358	1054359
Approximated outer diameter (mm)	28	30	39	46	57
Approximated final weight (kg/km)	1000	1190	2180	3110	4860
Min. bending radius – during installation (mm)	280	300	390	460	570
Capacitance – indicative value (µF/km)	0,187	0,218	0,239	0,259	0,268