

PRODUCT SPECIFICATION

IFSI CU EPB51721.docx

Low voltage power cable

Copper conductors

XLPE insulation

LSZH inner covering

Copper wire concentric conductor

LSZH outer sheath

Construction and testing according standards

EN 60228

Based on HD 604 Part 5 Section D

IEC 60502-1

Flame retardant – EN 60332-1-2

Fire retardant – EN 50399

IEC 60332-3-24 Cat.C

Halogen free – EN 60754-1

Low acidity and corrosivity – EN 60754-2

Reaction to fire – EN 50575 (D_{ca-s2,d2})

Rated voltage

0,6 / 1 (1,2) kV

Colours

Insulation:

2 conductors – Blue + Brown

3 conductors – Brown + Black + Grey

4 conductors – Blue + Brown + Black + Grey

Outer sheath:

Black

Marking

On the outer sheath, with the following information:

**CABELTE EXQJ n x S₁/S₂ Dca-s2,d2 Year - Month
M.M.**

n – Number of conductors

S₁ – Conductor cross-section (mm²)

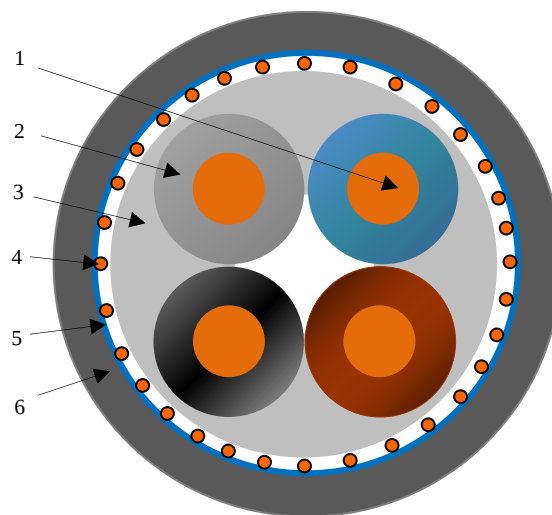
S₂ – Concentric conductor cross-section (mm²)

Year – Year of manufacture (4 digits)

Month – Month of manufacture (2 digits)

M.M. – Metric marking

EXQJ/IFSI CU 0,6/1kV



Schematic cross-sectional drawing
(example for four conductors cable)

Legend:

- 1 – Round solid copper conductor, class 1, manufactured according to EN 60228.
- 2 – XLPE insulation, according to IEC 60502-1.
- 3 – LSZH inner sheath.
- 4 – Concentric conductor of round annealed copper wires and a copper binder tape over the wires.
- 5 – Plastic tape spirally applied, over the concentric conductor.
- 6 – Halogen free fire retardant thermoplastic compound with UV protection.

Additional information

Maximum temperature in conductor, in normal operation – **90°C**

Maximum temperature in conductor, in short-circuit (max. 5 seconds) – **250°C**

Minimum operation temperature (fixed installation) – **-30°C**

Modular lengths – **Drum 500/1000 or Coil 50m** as specified by customer. Note: other modular lengths can be combined between customer and CABELTE.

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Technical characteristics

Note: TBD = To be defined

SWE = Sweden

NOR = Norway

	2x1,5/1,5	2x2,5/2,5	2x4/4	2x6/6	3x1,5/1,5	3x2,5/2,5
Ahlsell's article number (SWE)	TBD	TBD	TBD	TBD	TBD	0031705
Ahlsell's article number (SWE)	1020460	1020464	1020468	1020471	1020462	1020466
Approximated outer diameter (mm)	11	12	13	15	12	13
Approximated final weight (kg/km)	175	210	270	340	190	250
Min. bending radius – during installation (mm)	92	96	106	118	96	100
Capacitance – indicative value (µF/km)	0,107	0,120	0,134	0,145	0,117	0,132

	3x4/4	3x6/6	4x1,5/1,5	4x2,5/2,5	4x4/4	4x6/6
Ahlsell's article number (SWE)	TBD	0031715	TBD	0031905	TBD	0031915
Ahlsell's article number (NOR)	1020469	1020472	1020463	1020467	1020470	1020473
Approximated outer diameter (mm)	14	15	12	13	15	16
Approximated final weight (kg/km)	310	430	215	290	360	470
Min. bending radius – during installation (mm)	111	121	102	107	118	130
Capacitance – indicative value (µF/km)	0,148	0,162	0,117	0,131	0,146	0,159