

PRODUCT SPECIFICATION

IFSI CU 3X10_4X70 EPB51732.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:

3 conductors – Brown + Black + Grey

4 conductors – Blue + Brown + Black + Grey

Outer sheath:

Black

Marking

On the outer sheath, with the following information:

CABELTE FXQJ / IFSI CU 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

Additional information

Maximum temperature in conductor, in normal operation –

90°C

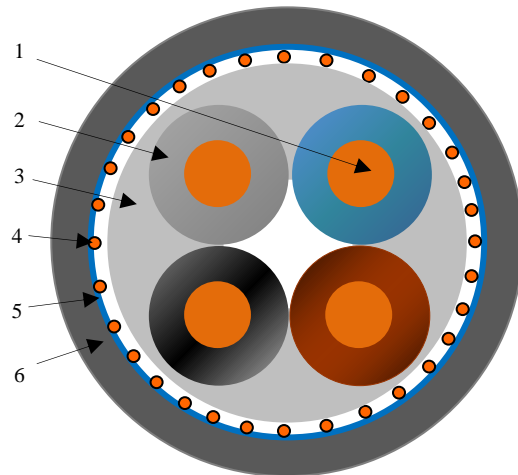
Maximum temperature in conductor, in short-circuit (max.

5 seconds) – **250°C**

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

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

FXQJ / IFSI CU 0,6/1kV



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

Legend:

1 – Stranded copper conductor, class 2, manufactured according to EN 60228:

Round for $S_1 \leq 35\text{mm}^2$;

Sector-shaped for $S_1 > 35\text{mm}^2$;

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.

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Technical characteristics

Note: TBD = To be defined

SWE = Sweden

NOR = Norway

	3x10/10	3x16/16	3x25/16	3x35/16	4x10/10
Ahlsell's article number (SWE)	TBD	0033415	0033425	0033435	TBD
Ahlsell's article number (NOR)	1020474	1020475	1020478	TBD	1020476
Approximated outer diameter (mm)	18	20	24	26	19
Approximated final weight (kg/km)	600	890	1250	1590	740
Min. bending radius – during installation (mm)	144	159	189	209	153
Capacitance – indicative value (µF/km)	0,190	0,210	0,219	0,235	0,186

	4x16/16	4x25/16	4x35/16	4x50/35	4x70/50
Ahlsell's article number (SWE)	0033445	0033455	0033465	TBD	TBD
Ahlsell's article number (NOR)	1020477	1020479	1020480	1020481	1020482
Approximated outer diameter (mm)	21	26	28	30	38
Approximated final weight (kg/km)	1020	1520	1960	2440	3360
Min. bending radius – during installation (mm)	172	206	228	243	278
Capacitance – indicative value (µF/km)	0,203	0,209	0,224	0,239	0,252