



## IFSI Cu

Power cable 0,6/1 kV, with Cu conductors, XLPE insulated and HFFR sheathed, with concentric conductor

### APPLICATION

Power cable suitable for fixed installation in dry and damp environment, on or under plaster, on cable trays, same as in walls and concrete. Not intended for direct laying in ground or water. For outdoor application can be laid in tubes, but in that case should be taken all precautionary measures necessary to prevent water penetration into the tubes. Suitable for supply systems in an emergency. Appropriate for application in all situations where people and material goods need to be protected in case of fire. Recommended for public buildings frequented by a lot of people, and for buildings of high material value, for industrial complexes, electric power plants, transformer stations, municipal facilities, hotels, shopping malls, hospitals, schools, airports, underground railways and similar. Concentric conductor serves as electromagnetic screen, which could also be applied as neutral conductor.

### CONSTRUCTION

Conductors: Cu, class 2 according to EN 60228

Insulation: XLPE compound

Bedding: Extruded elastomere or plastomere compound or plastic tape

Concentric conductor: Cu wires with counter helix of Cu tape

Sheath: HFFR compound

### CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

2-core: ● Brown ● Blue

3-core (a): ● Green/Yellow ● Brown ● Blue

3-core (b): ● Black ● Brown ● Grey

4-core (a): ● Green/Yellow ● Brown ● Black ● Grey

4-core (b): ● Blue ● Brown ● Black ● Grey

5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

● Black

*Other colours available on request*

### TECHNICAL CHARACTERISTICS

CPR class: Dca – s2, d2, a2

Test voltage: 4 Kv

Rated voltage: 0,6/1 kV

Bending radius (min): up to 6 mm<sup>2</sup>- 6D  
single-core- 15D; multicore- 12D

Min. laying temperature: -15°C

Max. working temperature: 90°C

Max. short-circuit temperature: 250°C

### STANDARD

SFS 5546, HD 604 S1, SS 424 14 18

### CERTIFICATION



## TWO- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)	PACKING
mm <sup>2</sup>		Ω/km	A	A	mm	kg/km	kg/km	500m
2x1,5/1,5	RE	12,1	18,5	26	9,4	43,2	138,87	K6
2x2,5/2,5	RE	7,410	25	35	10,2	72	184,76	K6
2x4/4	RE	4,610	-	-	11,3	115,2	251,02	K7
2x6/6	RE	3,080	43	57	12,5	172,8	334,42	K7
2x10/10	RM/RE	1,830	60	77	14,4	288	495,33	K8
2X10/16	RM/RE	1,830	60	77	15,9	345,6	552,6	K8
2x16/16	RM/RE	1,150	80	100	16,7	460,8	726,34	K8
2x25/16	RM/RE	0,727	102	130	20,0	633,6	1013	K9
2x35/16	RM	0,524	126	160	22,5	825,6	1297,3	K10
2x6/2,5	RE	3,080	43	57	12,4	139,2	300	K7
2x10/2,5	RM/RE	1,830	60	77	14,1	216	420,6	K7
2x16/2,5	RM/RE	1,150	80	100	16,0	331,2	590,9	K8
2x25/2,5	RM/RE	0,727	102	130	19,2	504	875,9	K9

## THREE- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)	PACKING
mm <sup>2</sup>		Ω/km	A	A	mm	kg/km	kg/km	500m
3x1,5/1,5	RE	12,1	18,5	26	9,9	57,6	157,8	K6
3x2,5/2,5	RE	7,410	25	35	10,8	96	213,5	K6
3x4/4	RE	4,610	-	-	11,9	153,6	294,3	K7
3x6/6	RE	3,080	43	57	13,2	230,4	396,9	K7
3x10/10	RM/RE	1,830	60	77	15,3	384	595,7	K8
3x16/16	RM/RE	1,150	80	100	17,7	614,4	883,2	K9
3x25/16	RM	0,727	102	130	21,1	873,6	1254,9	K10
3x35/16	RM	0,524	126	160	23,7	1161,6	1629,5	K11
3x50/25	SM	0,387	153	190	26,4	1680	1969,9	K11
3x70/35	SM	0,268	195	240	30,3	2352	2714,1	K12
3x95/50	SM	0,193	236	285	34,3	3216	3649,4	K14
3x120/70	SM	0,153	274	325	38,4	4128	4648,7	K16
3x150/70	SM	0,124	317	370	42,5	4992	5624,4	K18
3x185/95	SM	0,0991	361	420	47,3	6240	7008,2	K20
3x240/120	SM	0,0754	427	480	53,2	8064	8994,7	K22
3x300/150	SM	0,0601	492	550	58,6	10080	11174,6	K24

## FOUR- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)	PACKING
mm <sup>2</sup>		Ω/km	A	A	mm	kg/km	kg/km	500m
4x1,5/1,5	RE	12,1	18,5	26	10,7	72	182,7	K6
4x2,5/2,5	RE	7,410	25	35	11,7	120	249,8	K7
4x4/4	RE	4,610	-	-	13,0	192	347,2	K7
4x6/6	RE	3,080	43	57	14,4	288	471,3	K8
4x10/10	RM/RE	1,830	60	77	16,7	480	712,3	K8
4x10/16	RM/RE	1,830	60	77	18,0	537,6	770	K9
4x16/16	RM/RE	1,150	80	100	19,3	768	1061,8	K9
4x25/16	RM	0,727	102	130	23,2	1113,6	1530,5	K10
4x35/16	SM	0,524	126	160	26,0	1497,6	2007,2	K11
4x50/25	SM	0,387	153	190	29,2	2160	2511,2	K12
4x70/35	SM	0,268	195	240	34,2	3024	3474	K14
4x95/50	SM	0,193	236	285	38,0	4128	4655,7	K16
4x120/70	SM	0,153	274	325	42,5	5280	5915,8	K18
4x150/70	SM	0,124	317	370	47,1	6432	7208,2	K20
4x185/95	SM	0,0991	361	420	52,5	8016	8962,2	K22
4x240/120	SM	0,0754	427	480	59,0	10368	11516,9	K24
4x300/150	SM	0,0601	492	550	65,0	12960	14313,2	K24

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)	PACKING
mm <sup>2</sup>		Ω/km	A	A	mm	kg/km	kg/km	500m
6x10/16	RM/RE	1,830	60	77	20,9	729,6	946	K10