



AXQJ, IFSI AI, AXCMK-HF

Power cable 0,6/1 kV, with Al 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: Al, 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:

3-core (b): ● Black ● Brown ● Grey

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

Outer Sheath Colour:

● Black

Other colours available on request

TECHNICAL CHARACTERISTICS

CPR class: Dca – s1,d2,a1

Test voltage: 4 Kv

Rated voltage: 0,6/1 kV

Bending radius (min): single-core- 15D;
multicore- 12D

Min. laying temperature: -15°C

Max. conductor temperature: 90°C

Max. short-circuit temperature: 250°C

Min. working temperature: -40°C

Fire properties: IEC 60332-1-2; IEC 60332-3-24
IEC 61034-2; IEC 60754-1
IEC 60754-2

STANDARD

SFS 5546; HD 604 S1, P. 51; SS 424 14 18;
IEC 60502-1

CERTIFICATION



NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR		CURRENT CAPACITY IN GROUND	OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
		METHOD A *	METHOD C **			
mm ²	Ω/km	A	A	A	mm	kg/km
3x25/16	1,200/1,830	72	102	130	23,4	649
3x35/16	0,868/1,830	88	126	160	25,8	765
3x50/16	0,641/1,200	105	153	190	27,8	852
3x70/21	0,443/0,868	133	195	240	30,0	1162
3x95/29	0,320/0,641	159	236	285	33,1	1508
3x120/41	0,253/0,443	185	274	325	36,4	1918
3x150/41	0,206/0,443	208	317	370	40,3	2254
3x185/57	0,164/0,320	236	361	420	44,5	2840
3x240/72	0,125/0,253	278	427	480	50,1	2610
3x300/88	0,100/0,206	316	492	550	54,7	4404
4x16/10	1,910/1,830	55	80	100	21,3	495
4x25/16	1,200/1,830	72	102	130	25,4	723
4x35/16	0,868/1,830	88	126	160	25,9	860
4x50/16	0,641/1,200	105	153	190	29,1	1092
4x70/21	0,443/0,868	133	195	240	33,7	1445
4x95/29	0,320/0,641	159	236	285	37,5	1989
4x120/41	0,253/0,443	185	274	325	41,4	2383
4x150/41	0,206/0,443	208	317	370	45,7	2838
4x185/57	0,164/0,320	236	361	420	50,1	3532
4x240/72	0,125/0,253	278	427	480	56,5	4697
4x300/88	0,100/0,206	316	492	550	61,7	5518

Basic assumptions in ground installations are:

- temperature of ground: +15°C
- depth of laying: 0,7 m
- thermal resistivity of soil: 0,7 K m/W

In air installations the ambient is +25°C

*Method A of installation: a cable in conduit in a thermal insulated wall (see reference method A2 in IEC 60364-5-52)

**Method C of installation: a cable on a wooden wall (see reference method C in IEC 60364-5-52)