



IFSI Al

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 (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 – 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

Min. working temperature: 90°C

Max. working temperature: 90°C

Max. short-circuit temperature: 250°C

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

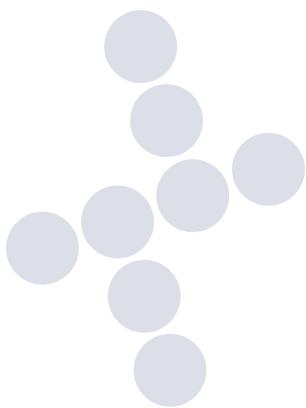
STANDARD

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	OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	A	mm	kg/km
3x25/10	1,200/1,830	113	23,4	591
3x35/10	0,868/1,830	136	25,8	707
3x50/15	0,641/1,200	159	27,8	852
3x70/21	0,443/0,868	197	30,0	1162
3x95/29	0,320/0,641	236	33,1	1508
3x120/41	0,253/0,443	269	36,4	1918
3x150/41	0,206/0,443	302	40,3	2254
3x185/57	0,164/0,320	342	44,5	2840
3x240/72	0,125/0,253	397	50,1	2610
3x300/88	0,100/0,206	454	54,7	4404
4x16/10	1,910/1,830	-	21,3	495
4x25/10	1,200/1,830	113	25,4	665
4x35/10	0,868/1,830	136	25,9	802
4x50/15	0,641/1,200	159	29,1	1092
4x70/21	0,443/0,868	197	33,7	1445
4x95/29	0,320/0,641	236	37,5	1989
4x120/41	0,253/0,443	269	41,4	2383
4x150/41	0,206/0,443	302	45,7	2838
4x185/57	0,164/0,320	342	50,1	3532
4x240/72	0,125/0,253	397	56,5	4697
4x300/88	0,100/0,206	454	61,7	5518



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