



IFSI AI

XLPE insulated and HFFR sheathed power cables with Al conductors and copper concentric conductor, rated voltage 0,6/1 kV

APPLICATION

Power cable designed for fixed installation in dry and damp environment, suitable for mounting on or under plaster, on cable trays, and embedded in walls or concrete. Not intended for direct laying in ground or water. For outdoor use, the cable may be installed in conduits, provided that adequate measures are taken to prevent water ingress. Suitable for supply systems in an emergency. Appropriate for application in all situations where people and property need to be protected in case of fire. Recommended for public utility buildings with a high concentration of people such as: hotels, shopping malls, hospitals, schools, airports, underground railways, etc. and for industrial complex like power plants, transformers stations. Concentric conductor serves as electromagnetic screen, which could also be applied as neutral conductor. Expected lifetime 50 years, provided proper installation, load and ambient temperature.

CONSTRUCTION

Conductors: Al, class 2 according to EN 60228

Insulation: XLPE compound

Bedding: Extruded filling compound or plastic tape

Concentric conductor: Copper wires and copper tape helically (spirally) applied

Outer sheath: HFFR compound, UV resistant

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 AC, 50 Hz, 5 min. per core

Rated voltage: 0,6/1 kV

Min. bending radius: single-core- 15D;

multicore- 12D, D – overall diameter

Min. laying temperature: -15°C

Min. working temperature: 90°C

Max. cond. operating temp.: 90°C

Max. short-circuit temperature: 250°C

Low smoke emitting: EN 61034-2

Halogen free: EN 60754-1; EN 60754-2

Vertical flame spread: EN IEC 60332-3-24

Flame propagation: EN 60332-1-2

CPR class: EN 50575, EN 13501-6

STANDARD

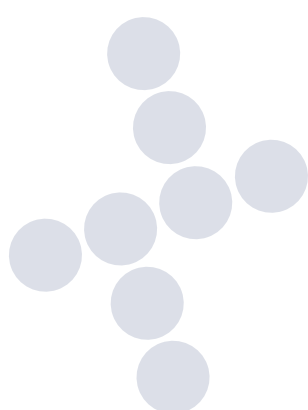
SFS 5546; HD 604 S1, SS 424 14 18;

IEC 60502-1, HD 604-5D (Chosen parts)

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	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



ttcables