



IFSI-EMC AI, AXQJ-EMC

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

APPLICATION

EMC shielded power cable with aluminium conductors. Halogen free, flame retardant and self-extinguishing in the event of fire. In case of fire, smoke emission is minimal, transparent and non-corrosive to electronic equipment. For fixed installation, indoors, outdoors, in ducts, ground or water Suitable for switchgear and potentially explosive areas. Can be plowed down if proper precautions are taken. The copper screen provides 100% coverage and complies to EMC Directive when installed correctly. Expected lifetime 50 years, provided proper installation, load and ambient temperature.

CONSTRUCTION

Conductors: Al, class 2 according to EN 60228
Insulation: XLPE compound
Bedding: Halogen-free plastic tape
Concentric conductor: Cu foil tape and Cu wires with counter helix of Cu tape
Outer sheath: Halogen-free compound, black, UV resistant

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

Single-core: ● Green/Yellow OR ● Black

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- s1, d2, a1

Test voltage: 4 kV AC, 50 Hz, 5 min. per core

Rated voltage: 0,6/1 kV

Min. bending radius: multicore : -12D,
 D – overall diameter

Min. temp. for cable laying: -20°C (during installation below 0°C special precaution is needed)

Max. conductor temperature: 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

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

CERTIFICATION



International
 Electrotechnical
 Commission

NOMINAL CROSS-SECTION)	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	mm	kg/km	kg/km
3x50/16	SM	0,641/1,15	152	25,6	435,0	818
3x95/35	SM	0,320/0,524	239	32,7	826,5	1524
3x150/50	SM	0,206/0,387	316	39,4	1305,0	2246
3x240/70	SM	0,125/0,268	430	49,3	2088,0	3465
4x50/16	SM	0,641/1,15	152	28,5	580	989
4x95/35	SM	0,320/0,524	239	36,6	1102	1841
4x150/50	SM	0,206/0,387	316	44,2	1740	2729
4x240/70	SM	0,125/0,268	430	55,3	2784	4234

