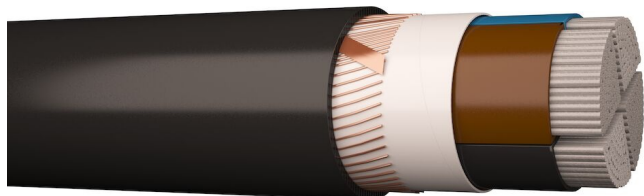


AXCMK-HF 4X150/41

Low smoke halogen free screen protected 1 kV power cable



APPLICATION

For fixed installation indoors, outdoors and underground; as well as in building structures e.g. directly in concrete (but not in sliding joints). Especially for circumstances where it is required to have installation cables with a low emission of smoke and corrosive gases in case of fire.

CERTIFICATIONS AND DESIGN STANDARDS

| | |
|------------------------------|---|
| EN 60228 | Conductor standard |
| IEC 60502-1 | 1 kV & 3 kV power cables with extruded insulation. |
| HD 604-5I | 1 kV & 3,3 kV power cables with special fire performance |
| EN 50575:2014/A1:2016 | Cables for general applications in construction works subject to reaction to fire requirements |
| HD 308 S2 | Identification of cores in cables and flexible cords |
| EN 60332-1-2 | Vertical flame propagation for a single insulated wire or cable |
| EN 60332-3 | Tests on electric and optical fibre cables under fire conditions. Part 3: Test for vertical flame spread of vertically-mounted bunched wires or cables. |
| IEC 60754 | Corrosive gases |
| IEC 61034 | Smoke density |

| | |
|--------------------------------------|---------------------|
| Conductor material | Aluminium |
| Conductor surface | Bare |
| Core insulation material | XLPE |
| Core identification (acc. HD 308 S2) | Yes |
| Material outer sheath | Halogenfree polymer |

| | |
|---|--------|
| Max. conductor temperature [°C] | 90 |
| Permitted cable outer temperature after assembling without vibration (min) [°C] | -40 |
| UV resistant | Yes |
| Permitted cable outer temperature during assembling/handling (min) [°C] | -15 |
| Bending radius (rule) | 12x OD |

| | |
|---|-------------------------------|
| Reaction-to-fire class (acc. EN 13501-6) | Cca |
| Smoke development class (acc. EN 13501-6) | s1 |
| Euro class flaming droplets/particles (acc. EN 13501-6) | d1 |
| Euro class acidity (acc. EN 13501-6) | a1 |
| Flame retardant | In accordance with EN 13501-6 |

PRODUCT PROPERTIES

| | |
|--|--------------------|
| Conductor category | Class 2 = stranded |
| Shape of conductor | Sector-shaped |
| Nominal cross section conductor [mm²] | 150 |
| Number of cores | 5 |
| With protective conductor | Yes |
| Colour outer sheath | Black |
| Nominal outer diameter [mm] | 47 |
| Conductor resistance at 20° C [Ohm/km] | 0.206 |
| Current carrying capacity in air [A] | 316 |
| Current carrying capacity in ground [A] | 280 |
| Cable weight [kg/km] | 3,000 |
| Min. bending radius during installation [mm] | 0 |
| DOP number | 1001452 |

Current load in air, installation method E, temperature 25°C

Current load in ground, installation method D2 (directly in ground). Ground temperature 15°C, thermal resistivity 1,0 K·m/W

| Item name | EAN-code (GTIN) | Packaging type | Standard packaging quantity |
|--|-----------------|----------------|-----------------------------|
| AXCMK-HF C-PRO 4X150/41 AN 1KV - AMCMK-H | 6410006019861 | Drum | 500 |