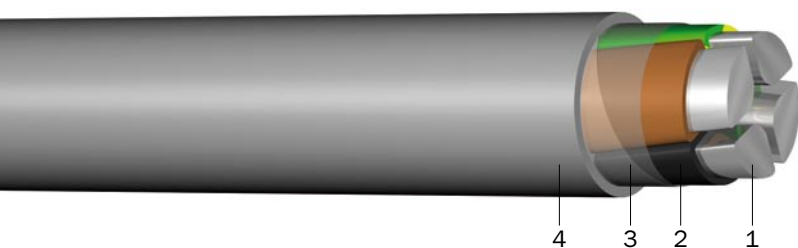


## FRNC-AL-M

### Halogen-free energy cable

#### DESIGN



- 1 | Aluminium conductor, round solid (RE), resp. sector-shaped stranded (SE)
- 2 | Core insulation (XLPE)
- 3 | Inner covering (halogen-free plastic tape or halogen-free polymer compound)
- 4 | Sheath (halogen-free polymer compound, grey)

#### APPLICATION

For fixed installation in interior premises and in the open air and for direct burial in cable ducts and conduits. Since they are free from halogens and exhibit enhanced fire performance, these cables are used in those applications where in the event of fire, the negative effect on concentrations of people and valuable material goods must be minimised.

#### TECHNICAL DATA



**Standard:**  
HD 604.5F  
IEC 60502-1



**Rated voltage:**  
0.6/1 kV



**Test voltage:**  
4 kV/50 Hz



**Temperature range:**  
laying temperature: min. -5 °C  
operating temperature: -50 °C up to +70 °C  
conductor temperature: max. +70 °C  
short-circuit temperature: max. +160 °C/5 s



**Bending radius (min.):**  
12 x Ø of cable



**Core identification:**  
HD 308 S2



**Fire properties:**  
flame retardant:  
EN 60332-1-2  
halogen-free, non-corrosive combustion gases:  
EN 50267-2-2  
reduced flame propagation:  
EN 60332-3-24  
low smoke emission:  
EN 61034-2

Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Current rating in the ground <sup>1)</sup> (A)	Current rating in the air <sup>1)</sup> (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
<b>FRNC-AL-M</b>						
5 x 16 RE	1.910	81	61	22.0	640	500 D
4 x 25 RE	1.200	102	82	21.6	485	500 D
5 x 25 RE	1.200	102	82	25.0	840	500 D
4 x 50 SE	0.641	144	119	27.8	770	500 D
4 x 95 SE	0.320	215	186	35.2	1,350	500 D
4 x 150 SE	0.206	275	246	43.2	2,050	500 D
4 x 240 SE	0.125	364	338	52.9	3,350	500 D

1) basic rated current acc. to HD 604.5F, IEC 60502-1  
Subject to technical changes.