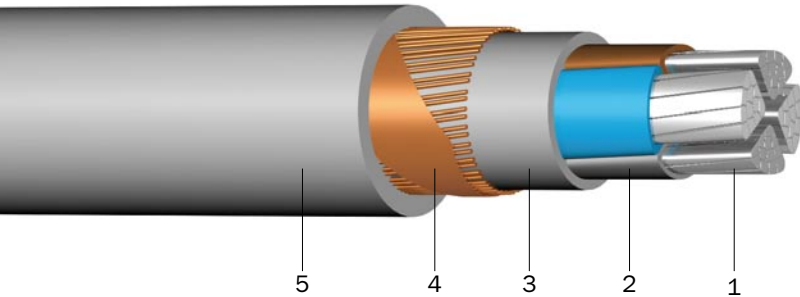


# FRNC-AL-SCW

## Halogen-free energy cable, screened

### DESIGN



- 1 | Aluminium conductor, sector-shaped stranded (SM)
- 2 | Core insulation (XLPE)
- 3 | Inner covering (halogen-free polymer compound)
- 4 | Concentric screen (bare copper wires applied with changing direction of lay) and counter helix (copper tape)
- 5 | 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. Possible for underground installation. 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. The concentric ceander conductor can be used as PE or PEN conductor and needs not be cut when assembling branch joints.

### TECHNICAL DATA



**Standard:**  
HD 604.5F  
IEC 60502-1  
HD 603.5G



**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.):**  
15 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/cross section of screen (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-SCW</b>						
3 x 50 SM/16	0.641	145	121	29.5	1,210	500 D
4 x 50 SM/16	0.641	145	121	33.5	1,460	500 D
3 x 70 SM/25	0.443	180	155	33.1	1,600	500 D
3 x 95 SM/35	0.320	216	189	38.4	2,130	500 D
4 x 95 SM/35	0.320	216	189	43.3	2,570	500 D
3 x 120 SM/50	0.253	246	220	40.8	2,580	500 D
4 x 120 SM/50	0.253	246	220	46.9	3,240	500 D
3 x 150 SM/50	0.206	276	249	45.9	2,750	500 D