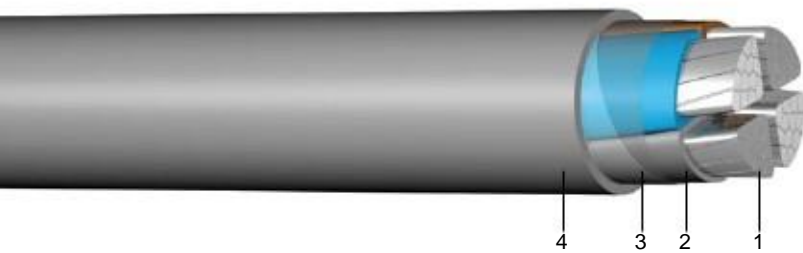


FRNC-AL-S(90)

Halogen-free energy cable

DESIGN



- 1 | Aluminium conductor, round stranded (RM), resp. sector-shaped stranded (SM)
- 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 $+90^{\circ}\text{C}$
conductor temperature: max. $+90^{\circ}\text{C}$
short-circuit temperature: max. $+250^{\circ}\text{C}/5\text{ s}$



Bending radius (min.):
 $12 \times \varnothing$ 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 ²)	Max. conductor resistance (Ω/km)	Current rating in the ground ¹⁾ (A)	Current rating in the air ¹⁾ (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/ packing (m)
FRNC-AL-S(90)						
4 x 25 RM	1.200	102	82	23.7	895	1,000 D, 500 D
5 x 25 RM	1.200	102	82	26.0	1,050	1,000 D, 500 D
4 x 50 SM	0.641	144	119	27.8	770	1,000 D, 500 D
1 x 95 RM	0.320	340	259	19.2	550	1,000 D, 500 D
4 x 95 SM	0.320	215	186	35.2	1,350	1,000 D, 500 D
1 x 150 RM	0.206	436	345	22.8	785	1,000 D, 500 D
4 x 150 SM	0.206	275	246	43.2	2,050	500 D
1 x 240 RM	0.125	578	479	27.8	1,180	1,000 D, 500 D
4 x 240 SM	0.125	364	338	54.6	3,310	500 D
5 x 240 SM	0.125	364	364	59.7	4,735	500 D
4 x 300 SM	0.100	419	400	60.1	4,610	500 D

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