



# FRNC-AL-S(90)

XLPE/FRNC energy cable, halogenfree

LOW VOLTAGE CABLES 0,6/1 kV

Cables are designed for fixed distribution of electricity in ordinary environment in hotels, hospitals, subway, airports, etc., to protect people and technical equipment of buildings in case of fire, where there is no requirement to maintain the functionality of the entire cable installation in fire. In case of fire, the cable releases a small amount of heat and smoke.



## TECHNICAL DATA



### Standard

Adapted to HD 604.5F  
IEC 60502-1



### Test Voltage

core/core 4 kV / 50 Hz



### Rated Voltage

0,6/1 kV



### Bending radius (min.)

12 x Ø of cable



### Fire properties

EN 60332-1-2: self-extinguishing  
EN 60754-2: halogen-free, non-corrosive combustion gases  
EN 61034-2: low smoke emission  
EN 60332-3-22: reduced flame propagation



### Core identification

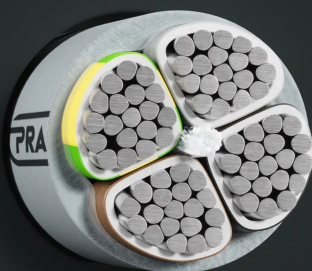
HD 308 S2



### Temperature range

Laying temperature: min. -5°C  
Operating temperature: -50°C up to 90°C  
Conductor temperature: max. 90°C  
Short circuit temperature: max. 250°C

## DESIGN



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

| Number of cores x nominal cross-section (mm <sup>2</sup> ) | Max. conductor resistance (Ω/km) | Current rating in the air (A) | Outer diameter appr. (mm) | Total weight appr. (kg/km) | CPR Classification |
|------------------------------------------------------------|----------------------------------|-------------------------------|---------------------------|----------------------------|--------------------|
| 4 x 16 RM                                                  | 1.91                             | 76                            | 20.1                      | 506                        | Cca-s1, d2, a1     |
| 4 x 25 RM                                                  | 1.2                              | 102                           | 24                        | 727                        | Cca-s1, d2, a1     |
| 5 x 25 RM                                                  | 1.2                              | 69                            | 26.3                      | 858                        | Cca-s1, d2, a1     |
| 1 x 50 RM                                                  | 0.641                            | 205                           | 14.6                      | 269                        | Cca-s1, d2, a1     |
| 4 x 50 SM                                                  | 0.641                            | 149                           | 26.6                      | 869                        | Dca-s1, d2, a1     |
| 5 x 70 SM                                                  | 0.443                            | 137                           | 33.8                      | 1466                       | Dca-s1, d2, a1     |
| 1 x 95 RM                                                  | 0.32                             | 321                           | 18.2                      | 439                        | Cca-s1, d2, a1     |
| 5 x 95 SM                                                  | 0.32                             | 163                           | 36.7                      | 1907                       | Dca-s1, d2, a1     |
| 5 x 120 SM                                                 | 0.253                            | 188                           | 42.4                      | 2388                       | Dca-s1, d2, a1     |
| 1 x 150 RM                                                 | 0.206                            | 431                           | 21.5                      | 631                        | Cca-s1, d2, a1     |
| 4 x 150 SM                                                 | 0.206                            | 311                           | 43.2                      | 2362                       | Dca-s1, d2, a1     |
| 5 x 150 SM                                                 | 0.206                            | 211                           | 47                        | 2929                       | Dca-s1, d2, a1     |
| 1 x 185 RM                                                 | 0.164                            | 501                           | 23.6                      | 766                        | Cca-s1, d2, a1     |
| 1 x 240 RM                                                 | 0.125                            | 600                           | 26.2                      | 958                        | Cca-s1, d2, a1     |
| 4 x 240 SM                                                 | 0.125                            | 427                           | 53.9                      | 3753                       | B2ca-s1, d0, a1    |

## CONTACT PERSON

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