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LiHCH

FRNC control cable, halogen-free, screened



TECHNICAL DATA



Standard

Based on EN 50525-3-11



Test Voltage

4000 V / 50 Hz



Rated Voltage

300/500 V (U₀/U)



Bending radius (min.)

Fixed installation: 4 x ϕ of cable

Flexible use: 15 x ϕ of cable



Fire properties

EN 60332-1-2: self-extinguishing and flame retardant

EN 60332-3-24 (Category C): reduced flame propagation

EN 60754-1 and 2: halogen-free; non-corrosive combustion gases

EN 61034-2, IEC 61034: smoke density

CPR classification: Dca



Core identification

Black (continuously numbered), from 3 cores with green/yellow ground conductor



Temperature range

Fixed installation: -40°C up to 70°C

Flexible use: -5°C up to 70°C

DESIGN



1

Bare copper conductors, fine wires class 5 according to DIN EN 60228 / VDE 0295 / IEC 60228

2

Core insulation of special halogen-free, flame retardant compound (FRNC)

3

Cores are stranded in layers with optimal lay-length

4

Wrapping with plastic tape

5

Tinned copper wire braiding

6

Wrapping with plastic tape

7

Outer sheath of special halogen-free, flame retardant compound (FRNC), colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	5.9	29.0	46
5 G 0.5	7.0	50.0	80
8 G 0.5	9.1	75.0	133
12 G 0.5	10.0	99.0	160
18 G 0.5	11.6	134.0	222
2 x 1	6.3	43.0	59
4 G 1	7.5	68.0	94
2 x 1.5	7.2	51.6	79
3 G 1.5	7.6	74.0	95
6 G 1.5	9.9	117.6	176
64 G 1.5	27.4	1051.3	1482
4 G 2.5	10.0	127.2	179
5 G 2.5	11.0	154.4	927
7 G 2.5	12.3	213.2	289
14 G 2.5	16.9	418.2	552
4 G 4	11.7	191.8	260
6 G 4	14.4	281.0	388
4 G 6	14.3	291.6	401
6 G 6	17.1	428.7	562
4 G 10	17.6	482.0	613
5 G 10	19.4	589.9	767

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