



LiHCH

FRNC control cable, halogen-free, screened

AUTOMATION AND MOTOR SUPPLY CABLES

LiHCH cables are multi-core halogen-free screened control cables suitable for indoor use in industrial applications with increased requirements for electromagnetic compatibility. Generally used in flexible or fixed applications with low mechanical and tensile stress as connecting cables for data processing, measurement and control engineering, safety related systems and as electronics cable where such cables are needed.



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 Ø of cable
Flexible use: 15 x Ø 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

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 (mm ²)	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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