We Make Modern Life Possible.

INSTALLATION AND HARMONISED CABLES AND WIRES

LiHCH

FRNC control cable, halogen-free, screened

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 (Uo/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
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

Technical changes reserved. All figures are therefore without guarantee.



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