

TECHNICAL SPECIFICATION

LiHCH Cable

CABLE DESCRIPTION

Conductor: Flexible bare copper

Insulation: Thermoplastic halogen-free, fire-retardant sheathing LSOH compound Type M1

Colour code: black numbered with yellow/green or acc. to DIN 47100

Assembly: conductors twisted with polyester tape

Screen: tinned copper braid coverage 70%

Sheath: Thermoplastic halogen-free, fire-retardant sheathing LSOH compound Green Ral 6011 Type M1

Marking: EUROCAVI LiHCH n x size LSZH CPR 305/2011 Class Cca-s1a,d2,a1 ITC011E CE n°week/year

Temperature range: -5°C up to +70°C

Working voltage: 300/500 V

Test voltage: 1500 V (AC)

Standards:

SA: EN 50267-2-3

SD: EN 61034-2

F2: IEC 60332-3-24

F1: IEC 60332-1-2

CPR 305/2011 EN 50575:2014 +A1:2016 Class Cca-s1a,d2,a1

DIMENSIONAL CHARACTERISTICS

| Number of conductors | Section (mm ²) | Diameter of wires (mm) | Insulation thickness (mm) | Ø conductors (mm) | Outer Ø (mm) | Cu weight (kg/km) | Approx Cable weight (kg/km) |
|----------------------|----------------------------|------------------------|---------------------------|-------------------|--------------|-------------------|-----------------------------|
| 6 | 0.50 | 0.20 | 0.35 | 1.60±0.05 | 5.60±0.30 | 29.00 | 60.00 |
| 2 | | | | | 5.40±0.30 | 21.60 | 51.00 |
| 3 | | | | | 5.80±0.30 | 27.40 | 61.00 |
| 4 | | | | | 6.40±0.30 | 33.20 | 72.00 |
| 5 | | | | | 6.90±0.30 | 40.00 | 85.00 |
| 6 | | | | | 7.10±0.30 | 46.30 | 99.00 |
| 7 | | | | | 7.20±0.30 | 51.60 | 103.00 |
| 8 | | | | | 7.70±0.30 | 57.40 | 138.00 |
| 10 | | | | | 8.90±0.30 | 70.00 | 147.00 |
| 12 | | | | | 9.00±0.30 | 80.60 | 165.00 |
| 14 | | | | | 9.50±0.30 | 91.20 | 186.00 |

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| 16 | | | | | 10.00±0.30 | 102.30 | 214.00 |
|----|--|--|--|--|------------|--------|--------|

| Number of conductors | Section (mm ²) | Diameter of wires (mm) | Insulation thickness (mm) | Ø conductors (mm) | Outer Ø (mm) | Cu weight (kg/km) | Approx Cable weight (kg/km) | | | | |
|----------------------|----------------------------|------------------------|---------------------------|-------------------|--------------|-------------------|-----------------------------|-----------|-----------|-------|--------|
| 2 | 0.75 | 0.20 | 0.40 | 1.90±0.05 | 6.00±0.30 | 28.20 | 60.00 | | | | |
| 3 | | | | | 6.30±0.30 | 36.10 | 77.00 | | | | |
| 4 | | | | | 6.90±0.30 | 44.80 | 87.00 | | | | |
| 5 | | | | | 7.50±0.30 | 55.00 | 106.00 | | | | |
| 6 | | | | | 7.90±0.30 | 62.70 | 124.00 | | | | |
| 7 | | | | | 8.10±0.30 | 70.40 | 129.00 | | | | |
| 8 | | | | | 8.60±0.30 | 79.60 | 172.00 | | | | |
| 10 | | | | | 10.00±0.30 | 97.00 | 184.00 | | | | |
| 12 | | | | | 10.20±0.30 | 111.90 | 211.00 | | | | |
| 14 | | | | | 10.80±0.30 | 127.80 | 239.00 | | | | |
| 16 | | | | | 11.50±0.30 | 144.20 | 268.00 | | | | |
| 18 | | | | | 12.10±0.30 | 160.60 | 307.00 | | | | |
| 19 | | | | | 12.40±0.30 | 169.80 | 325.00 | | | | |
| 2 | | | | | 1.00 | 0.20 | 0.40 | 2.10±0.05 | 6.40±0.30 | 34.20 | 79.00 |
| 3 | 6.80±0.30 | 44.80 | 88.00 | | | | | | | | |
| 4 | 7.30±0.30 | 55.90 | 106.00 | | | | | | | | |
| 5 | 8.00±0.30 | 69.00 | 124.00 | | | | | | | | |
| 6 | 8.50±0.30 | 79.60 | 147.00 | | | | | | | | |
| 7 | 8.60±0.30 | 90.20 | 155.00 | | | | | | | | |
| 8 | 9.30±0.30 | 100.80 | 196.00 | | | | | | | | |
| 10 | 10.80±0.30 | 123.50 | 221.00 | | | | | | | | |
| 12 | 11.00±0.30 | 143.20 | 250.00 | | | | | | | | |
| 14 | 11.80±0.30 | 163.40 | 284.00 | | | | | | | | |
| 17 | 12.70±0.30 | 196.20 | 340.00 | | | | | | | | |
| 19 | 13.40±0.30 | 217.40 | 380.00 | | | | | | | | |
| 2 | 1.50 | 0.26 | 0.60 | 2.70±0.05 | | | | | 7.70±0.30 | 47.80 | 91.00 |
| 3 | | | | | | | | | 8.10±0.30 | 63.20 | 112.00 |
| 4 | | | | | 8.90±0.30 | 80.60 | 141.00 | | | | |
| 5 | | | | | 10.00±0.30 | 97.00 | 161.00 | | | | |
| 6 | | | | | 10.60±0.30 | 113.40 | 194.00 | | | | |
| 7 | | | | | 10.80±0.30 | 128.80 | 206.00 | | | | |
| 8 | | | | | 11.50±0.30 | 144.20 | 266.00 | | | | |
| 10 | | | | | 13.30±0.30 | 178.00 | 297.00 | | | | |



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| 12 | | | | | 13.60±0.30 | 207.80 | 355.00 |
|----|--|--|--|--|------------|--------|--------|

| Number of conductors | Section (mm ²) | Diameter of wires (mm) | Insulation thickness (mm) | ∅ conductors (mm) | Outer ∅ (mm) | Cu weight (kg/km) | Approx Cable weight (kg/km) |
|----------------------|----------------------------|------------------------|---------------------------|-------------------|--------------|-------------------|-----------------------------|
| 2 | 2.50 | 0.26 | 0.60 | 3.20±0.05 | 8.80±0.30 | 71.00 | 128.00 |
| 3 | | | | | 9.30±0.30 | 97.00 | 157.00 |
| 4 | | | | | 10.10±0.30 | 123.00 | 201.00 |
| 5 | | | | | 11.50±0.30 | 142.00 | 237.00 |

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| TECHNICAL DEPT. | Petretti Enrico |