



HMH (Dca)

Halogen-free installation cables

APPLICATION

Halogen-free and environmentally friendly cables for fixed installation in dry and damp areas, as well as outdoors and in the open air. May be bricked in and embedded directly. Not suitable for embedment in vibrated concrete. Conductor insulation must be protected against light exposure. Installation to be performed by a qualified electrician only.

CONSTRUCTION

Conductors: Cu, class 1 (1,5 – 4 mm²)

Class 2 (> 4 mm²) according to EN 60228

Insulation: XLPE halogen – free compound

Bedding: 1,5–2,5 mm²–filling sheath > 4 mm²–EPDM rubber

Sheath: Gray HFFR compound, UV resistant

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

3-core (a): ● Green/Yellow ● Brown ● Blue

3-core (b): ● Black ● Brown ● Grey

4-core (a): ● Green/Yellow ● Brown ● Black ● Grey

4-core (b): ● Blue ● Brown ● Black ● Grey

5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

● Grey

Other colours available on request

TECHNICAL CHARACTERISTICS

CPR class: Dca – s1,d2,a1

Test voltage: 1,5-2,5 mm², 2000 V

4-16 mm², 4000 V

Rated voltage: 1,5-2,5 mm² 300/500 V

4 – 16 mm² 0,6/1 kV

Bending radius (min): 10 D

Temp. for cable laying: -15°C do +50°C

Max. working temperature: 90°C

Max. short-circuit temperature: 250°C

Smoke density: EN 61034-2

Flame retardant: EN 60332-1-2

Halogen free: EN 60754-1/2

STANDARD

DIN VDE 0250-215

CERTIFICATION



International
Electrotechnical
Commission



NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
1x4	4,61	42	36	6,3	38,4	74
1x6	3,08	54	44	6,8	57,6	98
1x10	1,830	75	58	7,7	96,0	143
1x16	1,150	100	75	8,7	153,6	210

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mm ²	Ω/km	A	A	mm	kg/km	kg/km
2x1,5	12,10	23	21	8,2	28,8	90
2x2,5	7,41	32	28	9,0	48,0	120
2x4	4,61	42	36	10,0	76,8	182
2x6	3,08	54	44	11,4	115,2	240

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mm ²	Ω/km	A	A	mm	kg/km	kg/km
3x1,5	12,10	23	21	9,7	43,2	132
3x2,5	7,41	32	28	10,5	72,0	174
3x4	4,61	42	36	11,6	115,2	256
3x6	3,08	54	44	12,9	172,8	332

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mm ²	Ω/km	A	A	mm	kg/km	kg/km
3G1,5	12,10	23	21	9,7	43,2	132
3G2,5	7,41	32	28	10,5	72,0	174
3G4	4,61	42	36	11,6	115,2	256
3G6	3,08	54	44	12,9	172,8	332

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mm ²	Ω/km	A	A	mm	kg/km	kg/km
4x1,5	12,10	23	21	10,2	57,6	150
4x2,5	7,41	32	28	11,1	96,0	204
4x4	4,61	42	36	12,8	153,6	315
4x6	3,08	54	44	14,4	230,4	419
4x10	1,830	75	58	16,3	384,0	608
4x16	1,150	100	75	19,3	614,4	944

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4G1,5	12,10	23	21	10,2	57,6	150
4xG2,5	7,41	32	28	11,1	96,0	204
4G4	4,61	42	36	12,8	153,6	315
4G6	3,08	54	44	14,4	230,4	419
4G10	1,830	75	58	16,3	384,0	608
4G16	1,150	100	75	19,3	614,4	944

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mm ²	Ω/km	A	A	mm	kg/km	kg/km
5x1,5	12,10	23	21	11,0	72,0	174
5x2,5	7,41	32	28	12,0	120,0	238
5x4	4,61	42	36	14,2	192,0	382
5x6	3,08	54	44	15,5	288,0	494
5x10	1,830	75	58	17,7	480,0	726
5x16	1,150	100	75	20,9	768,0	1128

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5G4	4,61	42	36	14,2	192,0	382
5G6	3,08	54	44	15,5	288,0	494
5G10	1,830	75	58	17,7	480,0	726
5G16	1,150	100	75	20,9	768,0	1128

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mm ²	Ω/km	A	A	mm	kg/km	kg/km
7x1,5	12,10	23	21	10,4	100,8	173
7x2,5	7,41	32	28	12,0	168,0	262