



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



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
1x1,5	12,1	23	21	4,6	14	35
1x2,5	7,41	32	28	5,0	24	47
1x4	4,61	42	36	6,1	38	72
1x6	3,08	54	44	6,6	58	95
1x10	1,830	75	58	7,6	96	143
1x16	1,150	100	75	8,5	154	207

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
1G1,5	12,1	23	21	4,6	14	35
1G2,5	7,41	32	28	5,0	24	47
1G4	4,61	42	36	6,1	38	72
1G6	3,08	54	44	6,6	58	95
1G10	1,830	75	58	7,6	96	143
1G16	1,150	100	75	8,5	154	207

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
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

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
3x1,5	12,10	23	21	8,0	43,2	138
3x2,5	7,41	32	28	8,8	72,0	188
3x4	4,61	42	36	10,5	115,2	279
3x6	3,08	54	44	11,6	172,8	369

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
3G1,5	12,10	23	21	8,0	43,2	138
3G2,5	7,41	32	28	8,8	72,0	188
3G4	4,61	42	36	10,5	115,2	279
3G6	3,08	54	44	11,6	172,8	369

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
4x1,5	12,10	23	21	8,6	57,6	167
4x2,5	7,41	32	28	9,6	96,0	229
4x4	4,61	42	36	11,4	153,6	343
4x6	3,08	54	44	12,7	230,4	457
4x10	1,830	75	58	15,3	384,0	709
4x16	1,150	100	75	17,4	614,4	1027

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
4G1,5	12,10	23	21	8,6	57,6	167
4xG2,5	7,41	32	28	9,6	96,0	229
4G4	4,61	42	36	11,4	153,6	343
4G6	3,08	54	44	12,7	230,4	457
4G10	1,830	75	58	15,3	384,0	709
4G16	1,150	100	75	17,4	614,4	1027

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
5G1,5	12,10	23	21	9,3	72,0	199
5G2,5	7,41	32	28	10,4	120,0	275
5G4	4,61	42	36	12,5	192,0	414
5G6	3,08	54	44	13,8	288,0	555
5G10	1,830	75	58	16,7	480,0	865
5G16	1,150	100	75	19,1	768,0	1258

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
7x1,5	12,10	23	21	10,4	100,8	243
7x2,5	7,41	32	28	12,0	168,0	363