

MM-242-01

Baymotion nonfire Power Cable



Cable structure:

- copper conductor, finely stranded, class 5
- Insulation: special elastomer, crosslinked outer sheath, halogen-free, flame retardant, black



BayMotion® nonfire B2ca Power Soil is a flexible power, connection and interconnecting cable for use in plant construction and mechanical engineering for structures with very high safety requirements, e.g. in tunnels, metro railway stations, hospitals and escape routes. The special stranding of the individual wires guarantees a homogeneous stranding structure and facilitates the installation of terminals and press connectors. Suitable for tube or press cable lugs for finely stranded conductors according to DIN EN 60228, or VDE 0295 Class 5 and 6. The cable is suitable for permanent installation in dry, humid and wet rooms, for outdoor use and directly in the ground. Furthermore, the cables are particularly suitable for flexible use without additional mechanical load.

Technical Data

Based on IEC 60502-1

Based on HD 604

Core identification code acc. to HD 308 S2

Flame retardant and self-extinguishing acc. to EN 60332-1-2

Fire behavior acc. to DIN EN 50399

Smoke production / density acc. to DIN EN 50399

Halogen-free acc. to EN 60754-2 (no corrosive fire gases, conductivity)

Resistance to microorganisms (directly buriable) acc. to EN ISO 846 D (1997)

Water resistant acc. to EN 60811-402

UV and weather resistance based on DIN EN 50289-4-17

Ozon resistance (EN 50396 method B): DIN VDE 0276-604

Conductor resistance	
acc. to IEC 60228/EN 60228	class 5 + 6
Current carrying capacity	
<p>For power distribution in and on buildings as well as motor connection:</p> <p>1-5 cores: acc. to VDE 0298-4 table 11</p> <p>>5 cores: acc. to VDE 0298-4 table 11 IAW table 26</p> <p>For power distribution in static laying, particularly for the use in power plants:</p> <p>1-5 cores: acc. to HD 604 S1 part 5G during regular operation: table B.1 in case of short-circuit: table B.2 short-circuit duration max. 5s</p> <p>>5 cores: acc. to HD 627 S1 part 7H</p>	
Rated voltage	
U0/U (IEC)	1,8/3 kV
Voltage test	
AC 50 Hz [Veff]	6,5 kV
Permissible operating temperatures (cable) [°C]	
Laying (min.)	-5
Permissible operating temperatures (conductor) [°C]	
Operation (max.)	90
Short-circuit temperature (max.)	250

Order-No.	Product	CPR Reaction to fire class	CPR additional classification			Fire load [MJ/m]	Cu No. [kg/km]	Outer diameter approx. [mm]	Net weight approx. [kg/km]	Rated short-time current (ts) [kA]	Tensile force max. [daN]	Bending radius one-off min. [mm]	Bending radius repeated min. [mm]	Standard length [m]	Standard drum size	Max. production length [m]
			s1a	d1	a1											
4760007	BayMotion® nonfire Power Soil 1x70 1,8/3 kV L	B2ca	s1a	d1	a1	8.0	672.0	20.1	1015.00	10.01	210	150	300	1000	120	1
4760009	BayMotion® nonfire Power Soil 1x95 1,8/3 kV L	B2ca				9.0	912.0	22.0	1276.00	13.59	285	165	330	1000	120	1
4760008	BayMotion® nonfire Power Soil 1x120 1,8/3 kV L	B2ca	s1a	d1	a1	10.0	1152.0	25.0	1525.00	17.16	360	190	370	1000	140	3000
4760010	BayMotion® nonfire Power Soil 1x150 1,8/3 kV L	B2ca	s1a	d1	a1	11.0	1440.0	26.0	1716.00	21.45	450	200	390	1000	160	2000
4760012	BayMotion® nonfire Power Soil 1x185 1,8/3 kV L	B2ca				12.0	1776.0	27.0	2038.00	26.46	555	200	400	1000	160	2000
4760014	BayMotion® nonfire Power Soil 1x240 1,8/3 kV L	B2ca	s1a	d1	a1	13.0	2304.0	29.0	2635.00	34.32	720	220	440	1000	160	2000
4760016	BayMotion® nonfire Power Soil 1x300 1,8/3 kV L	B2ca	s1a	d1	a1	14.0	2880.0	32.0	3328.00	42.90	900	240	480	1000	205	2000
4760018	BayMotion® nonfire Power Soil 1x400 1,8/3 kV L	B2ca	s1a	d1	a1	17.0	3840.0	36.0	4295.00	57.20	1200	270	540	1000	205	1500
4760020	BayMotion® nonfire Power Soil 1x500 1,8/3 kV L	B2ca	s1a	d1	a1	19.0	5294.0	41.0	5735.00	71.50	1500	310	620	1000	200	1500
4760021	BayMotion® nonfire Power Soil 1x630 1,8/3 kV L	B2ca	s1a	d1	a1	23.0	6089.0	45.0	6985.00	90.09	1890	340	680	1000	255	1000