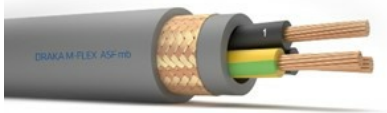


ASF mb

Screened flexible, oil-resistant control cable



NEN: V-VMvLoafmb 300/500
CLC: H05VVC4V5-K

Application:

- Auxiliary current cable for industrial application
- In areas effected by electromagnetic interference (EMI)

Properties regarding fire performance:

- Flame retardant in accordance with NEN-EN-IEC 60332-3-24 Cat C
- Self-extinguishing in accordance with NEN-EN-IEC 60332-1

General properties:

- Flexible
- Excellent resistance to oil and greases
- Copper wire braiding offers a reliable protection against electromagnetic interference EMI

Construction:

Conductor: flexible plain copper (class 5)
Insulation: polyvinyl chloride (PVC)
Assembly: cores cabled together (could be wrapped with polyester foil)
Inner sheath: polyvinyl chloride (PVC)
Braiding: plain copper wires
Outer sheath: polyvinyl chloride (PVC)

Electrical properties:

Voltage rating: 300/500 V
Test voltage: 2 kV

Core colours:

2 cores: black, numbered
multi cores: one core green-and-yellow, other cores black, numbered

Standards/References:

NEN-EN 50525
 NEN-EN-IEC 60332-1
 IEC 60332-3

Additional information:

Minimum installation temperature: +5 °C
Maximum conductor temperature: +60 °C
Operating temperature: min. +5 °C, max. +50 °C
Sheath colour: grey
Approval: <HAR>; KEMA-KEUR
Packaging: coils, drums

Construction data

Conductor category	Class 5 = flexible
Stranding element	No
Core insulation	PVC
Core identification	Numbers
Inside jacket material	PVC
Screen over stranding	Braiding
Material outer sheath	PVC
Colour outer sheath	Grey

Properties

Halogen free (acc. EN 60754-1/2)	No
Flame retardant	In accordance with EN 60332-3-24
Low smoke (acc. EN 61034-2)	No
Low temperature resistant (acc. EN 60811-504+505+506)	No
Oil resistant (acc. EN 60811-404)	Yes
Permitted cable outer temperature, in movement	-5 / 50 °C
Permitted cable outer temperature, fixed	-5 / 60 °C

Electrical

Nominal voltage U0	300 V
Nominal voltage U	500 V

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Product Range

Product nr.	Nominal cross section conductor (mm ²)	Nominal diameter over insulation (mm)	Nominal diameter over inner sheath (mm)	Nominal overall diameter (mm)	Minimum bending radius ² (mm)	Maximum tensile strength ³ (N)	Approx. weight (kg/km)
112346	2x0,75	2,3	6,1	8,4	45	22	110
113539	2x1	2,5	6,5	8,7	45	30	120
112357	2x1,5	3	7,4	9,8	50	45	150
112655	2x2,5	3,6	8,7	11,3	60	75	200
112316	3x0,75	2,3	6,5	8,7	45	33	120
112351	3x1	2,5	6,9	9,3	50	45	135
112317	3x1,5	3	7,9	10,3	55	67	170
112318	3x2,5	3,6	9,3	11,9	60	110	230
112319	4x0,75	2,3	7,1	9,5	50	45	140
112352	4x1	2,5	7,6	10,0	50	60	160
112320	4x1,5	3	8,6	11,2	60	90	205
112362	4x2,5	3,6	10,4	13,2	80	150	285
112347	5x0,75	2,3	7,8	10,2	55	56	165
112353	5x1	2,5	8,3	10,9	55	75	190
112358	5x1,5	3	9,7	12,5	75	110	250
119036	5x2,5	3,6	11,6	15,2	95	185	385
112321	7x0,75	2,3	9,2	12,1	75	78	225
112354	7x1	2,5	10,1	12,8	80	105	255
112322	7x1,5	3	11,7	14,7	90	155	355
112363	7x2,5	3,6	13,9	17,9	110	260	535
114052	8x1,5	3	12,6	16,4	100	180	430
121866	10x0,75	2,3	10,9	14,5	90	110	310
113374	10x1	2,5	11,9	15,1	95	150	325
113375	10x1,5	3	13,7	17,1	105	225	420
112348	12x0,75	2,3	11,5	14,6	90	135	315
112355	12x1	2,5	12,3	16,1	100	180	385
112359	12x1,5	3	14,2	17,6	110	270	470
112349	18x0,75	2,3	13,4	17,4	105	200	455
112356	18x1	2,5	14,4	18,4	115	270	525
112360	18x1,5	3	16,7	20,5	125	405	655
122623	24x1	2,5	17,1	20,9	130	360	660

1) The letter G in this column indicates presence of a green-and-yellow core. The letter x indicates absence of a green-and-yellow core.

2) For flexible wiring.

3) Static tensile strength; also during dynamic application, when often higher forces are expected, the mentioned tensile strength may not be exceeded.

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Electrical features

Product nr.	Nominal cross section conductor (mm ²)	Conductor resistance at 20 °C, DC (ohm/km)	Conductor resistance at 60 °C, 50 Hz (ohm/km)	Maximum current rating ² (A)	Mutual inductance ³ (mH/km)	Mutual capacitance ⁴ (nF/km)
112346	2x0,75	26,0	30,082	6	0,34	185
113539	2x1	19,5	22,5615	10	0,32	200
112357	2x1,5	13,3	15,3881	16	0,3	210
112655	2x2,5	7,98	9,2329	25	0,28	225
112316	3x0,75	26,0	30,082	6	0,34	215
112351	3x1	19,5	22,5615	10	0,32	235
112317	3x1,5	13,3	15,3881	16	0,3	250
112318	3x2,5	7,98	9,2329	25	0,28	265
112319	4x0,75	26,0	30,082	5	0,37	220
112352	4x1	19,5	22,5615	9	0,34	240
112320	4x1,5	13,3	15,3881	14	0,32	255
112362	4x2,5	7,98	9,2329	22	0,3	270
112347	5x0,75	26,0	30,082	5	0,37	225
112353	5x1	19,5	22,5615	9	0,34	245
112358	5x1,5	13,3	15,3881	14	0,32	260
119036	5x2,5	7,98	9,2329	22	0,3	275
112321	7x0,75	26,0	30,082	4	-	240
112354	7x1	19,5	22,5615	7	-	260
112322	7x1,5	13,3	15,3881	11	-	280
112363	7x2,5	7,98	9,2329	17	-	290
114052	8x1,5	13,3	15,3881	10	-	280
121866	10x0,75	26	30,082	3	-	240
113374	10x1	19,5	22,5615	5	-	260
113375	10x1,5	13,3	15,3881	9	-	280
112348	12x0,75	26,0	30,082	3	-	240
112355	12x1	19,5	22,5615	5	-	260
112359	12x1,5	13,3	15,3881	9	-	280
112349	18x0,75	26	30,082	3	-	240
112356	18x1	19,5	22,5615	5	-	260
112360	18x1,5	13,3	15,3881	7	-	280
122623	24x1	19,5	22,5615	4	-	260

1) The letter G in this column indicates presence of a green-and-yellow core. The letter x indicates absence of a green-and-yellow core.

2) The maximum current rating applies to one cable in free air, at an ambient temperature of 30 °C based on HD 516 and NEN 1010:2007, table E.52-1. Correction factors for other ambient temperatures than 30 °C are given in table E.52-6. For 4- and 5-cores cables the maximum current is given for 3 cores loaded.

3) For 4- and 5-cores the working self-inductance for 2 not adjacent cores is given. For multicore cables the values are available on request.

4) The working capacitance for asymmetric alternating current- or symmetric three phase current. The working capacitance of multicore cables is depending of the circuit.