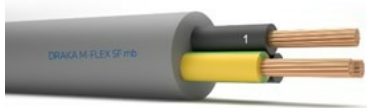


SF mb

Flexible, oil resistant control cable



NEN: VMvLomb 300/500 V
CLC: H05VV5-F

Application:

- Control cable for industrial application

Properties regarding fire performance:

- Flame retardant in accordance with NEN-EN 50266-2-4 (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

Remarks:

- In areas effected by EMI use screened cables, see ASF (HOVVC4V5-K)

Construction:

Conductor: flexible plain copper (class 5)
Insulation: polyvinyl chloride (PVC)
Assembly: cores cabled together
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
Screen over stranding	None
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

SF mb

Flexible, oil resistant control cable

Product Range

Product nr.	Nominal cross section conductor (mm ²)	Nominal diameter over insulation (mm)	Nominal overall diameter (mm)	Minimum bending radius ² (mm)	Maximum tensile strength ³ (N)	Approx weight (kg/km)
112364	2x0,75	2,3	6,2	35	22	55
112368	2x1	2,5	6,5	35	30	65
115655	2x1,5	3	7,4	40	45	85
112382	2x2,5	3,6	9,1	50	75	130
115652	3x0,75	2,3	6,5	35	33	65
112369	3x1	2,5	6,9	35	45	75
112378	3x1,5	3	8,1	45	67	105
115658	3x2,5	3,6	9,9	50	110	160
115653	4x0,75	2,3	7,1	40	45	80
112370	4x1	2,5	7,6	40	60	95
112379	4x1,5	3	8,8	45	90	130
112383	4x2,5	3,6	10,8	55	150	200
112365	5x0,75	2,3	8,0	40	56	100
112371	5x1	2,5	8,5	45	75	115
115656	5x1,5	3	9,9	50	110	160
112384	5x2,5	3,6	12,1	75	185	245
119028	6x1	2,5	9,6	50	90	150
115654	7x0,75	2,3	9,7	50	78	145
112372	7x1	2,5	10,2	55	105	165
115657	7x1,5	3	12,1	75	155	235
112385	7x2,5	3,6	14,5	90	260	350
119029	8x1	2,5	11,5	60	120	210
113377	10x0,75	2,3	11,5	60	110	170
113378	10x2,5	3,6	17,7	110	375	440
115660	12x0,75	2,3	11,8	60	135	190
112373	12x1	2,5	12,7	80	180	230
115662	12x1,5	3	14,8	90	270	320
112386	12x2,5	3,6	17,9	110	450	485
115661	18x0,75	2,3	14,2	90	200	290
112374	18x1	2,5	15,0	90	270	360
115663	18x1,5	3	17,7	110	405	485
112387	18x2,5	3,6	21,9	135	675	775
113379	24x0,75	2,3	16,8	105	270	410
113380	24x1	2,5	17,9	110	360	485
113381	24x1,5	3	21,4	130	540	700
112366	27x0,75	2,3	17,5	105	300	435
112375	27x1	2,5	18,7	115	405	520
112380	27x1,5	3	21,6	130	605	710
112367	36x0,75	2,3	19,6	120	405	570
112376	36x1	2,5	21,2	130	540	695
112381	36x1,5	3	25,0	150	810	970

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.

SF mb

Flexible, oil resistant control cable

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)
112364	2x0,75	26,0	30,082	6	0,34
112368	2x1	19,5	22,5615	10	0,32
115655	2x1,5	13,3	15,3881	16	0,3
112382	2x2,5	7,98	9,2329	25	0,28
115652	3x0,75	26,0	30,082	6	0,34
112369	3x1	19,5	22,5615	10	0,32
112378	3x1,5	13,3	15,3881	16	0,3
115658	3x2,5	7,98	9,2329	25	0,28
115653	4x0,75	26,0	30,082	5	0,37
112370	4x1	19,5	22,5615	9	0,34
112379	4x1,5	13,3	15,3881	14	0,32
112383	4x2,5	7,98	9,2329	22	0,3
112365	5x0,75	26,0	30,082	5	0,37
112371	5x1	19,5	22,5615	9	0,34
115656	5x1,5	13,3	15,3881	14	0,32
112384	5x2,5	7,98	9,2329	22	0,3
119028	6x1	19,5	22,5615	7	-
115654	7x0,75	26,0	30,082	4	-
112372	7x1	19,5	22,5615	7	-
115657	7x1,5	13,3	15,3881	11	-
112385	7x2,5	7,98	9,2329	17	-
119029	8x1	19,5	22,5615	6	-
113377	10x0,75	26,0	30,082	3	-
113378	10x2,5	7,98	9,2329	14	-
115660	12x0,75	26,0	30,082	3	-
112373	12x1	19,5	22,5615	5	-
115662	12x1,5	13,3	15,3881	9	-
112386	12x2,5	7,98	9,2329	13	-
115661	18x0,75	26,0	30,082	3	-
112374	18x1	19,5	22,5615	5	-
115663	18x1,5	13,3	15,3881	7	-
112387	18x2,5	7,98	9,2329	11	-
113379	24x0,75	26,0	30,082	2	-
113380	24x1	19,5	22,5615	4	-
113381	24x1,5	13,3	15,3881	6	-
112366	27x0,75	26	30,082	2	-
112375	27x1	19,5	22,5615	4	-
112380	27x1,5	13,3	15,3881	6	-
112367	36x0,75	26	30,082	2	-
112376	36x1	19,5	22,5615	4	-
112381	36x1,5	13,3	15,3881	6	-

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.