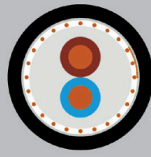


## MCMK 3-core

1 kV power cable with PVC insulated copper conductors



### Application

For fixed installation indoors, outdoors and underground as well as in building structures, e.g. directly in concrete. Not for installations subject to severe electrical interference (see MCMK).

### Standards

SFS 4880, HD 603-3F S1, IEC 60502-1, IEC 60332-1

### Certificate/approval

CE, EEI, FI, S

### Rated voltage

$U_0/U = 0,6/1$  kV,  $U_m = 1,2$  kV

### Temperature range

Highest permissible conductor temperature:

- in continuous operation . . . . . 70 °C

- in a short circuit (duration up to 5 s) . . . . . 160 °C

Lowest recommended temperature during laying . . . -15 °C

### Construction

Conductor . . . . . annealed copper;

1,5-6 mm<sup>2</sup> - solid;

10 mm<sup>2</sup> - stranded, round (RM)

Insulation . . . . . lead-free PVC

Laying up . . . . . phase conductor and neutral conductor stranded together

Filling . . . . . filling compound

PE conductor . . . . . concentric layer of copper wires and an open helix of parallel copper wires

Sheath . . . . . black, lead-free PVC compound

### Identification of cores

Colour marking . . . blue, brown

According to HD 308 S2:2002.

### Marking

Manufacturer, product name, FI-mark, year and week of manufacture, meter marking.

Basic cable data			MCMK	MCMK	MCMK	MCMK
			2x1,5/1,5 1 kV	2x2,5/2,5 1 kV	2x6/6 1 kV	2x10/10 RM 1 kV
EAN code		64 100+	06 021 22-2	06 021 23-9	06 021 25-3	06 021 26-0
Construction data						
External cable diameter <sup>(1)</sup>		mm	11,5	12,5	16,5	19
Weight <sup>(1)</sup>	copper	kg/km	41	66	159	268
	cable	kg/km	165	200	370	550
Delivery data						
Standard delivery length		m	1000	1000	500	500
Drum			K8	K8	K8	K9
Total weight <sup>(1)</sup>		kg	210	225	220	320
Mechanical data <sup>(2)</sup>						
Minimum permissible bending radius during laying		m	0,14	0,15	0,19	0,23
Minimum permissible bending radius at final installation <sup>(3)</sup>		m	0,09	0,10	0,13	0,16
Maximum permissible pulling force, pulling by phase conductors		kN	0,15	0,25	0,60	1,00
Electrical data <sup>(2)</sup>						
Maximum DC resistance of conductor 20 °C		Ω/km	12,1	7,41	3,08	1,83
Maximum AC resistance of conductor 70 °C		Ω/km	14,5	8,87	3,69	2,19
Maximum DC resistance of PE conductor 20 °C		Ω/km	12,1	7,41	3,08	1,83
Inductance <sup>(1)</sup>		mH/km	0,34	0,32	0,30	0,28
Operating capacitance <sup>(1)</sup>		μF/km	0,25	0,30	0,35	0,40
Current ratings <sup>(2)</sup>						
In ground		A	26	35	57	77
In air		A	14	20	33	62
Short circuit currents <sup>(2)</sup>						
Maximum permissible short circuit current for 1 second	phase and neutral conductor <sup>(4)</sup>	kA	0,18	0,30	0,70	1,1
	PE conductor <sup>(5)</sup>	kA	0,24	0,42	1,0	1,7

1) Approximate value.

2) See the basic assumptions at general information of products.

3) Final installation with careful single bending.

4) Initial temperature of conductor before short circuit 70 °C, final temperature of conductor after short circuit 160 °C.

5) Initial temperature of PE conductor before short circuit 60 °C, final temperature of PE conductor after short circuit 160 °C.