PIPING

HEATING CABLES Domestic use

ch

SELF-REGULATING

MCA

Self-regulating cable for anti-freeze use or for maintaining temperatures for general use.

For anti-freeze use on pipes or tanks or for maintaining process temperatures under 65°C, even in hazardous areas. Maintenance-free, reliable, easy to install. Suitable even in the presence of mild inorganic solutions.

		Minimum		TEMPERATURE MAX			
	Power voltage	installation temperature	Power at 10°C	Continuous cable powered	Intermittent cable not powered		
Product	(V)	(°C)	(W/m)	(°C)	(°C)		
MCA3	220-240	-30	10	65	80		
MCA5	220-240	-30	15	65	80		
MCA8	220-240	-30	25	65	80		

		MAXI	MUM LI	ENGTH	OF THE CIRCUITS IN THE HEATING CABLE (1					LE (m)
ELECTRICAL SIZING	MCA3			MCA5			MCA8			
Starting temperature (°C)		+10°	-10°	-20°	+10°	-10°	-20°	+10°	-10°	-20°
Switchgear	10 A	-	-	-	103	71	62	64	47	37
protection (A), with C curve and	16 A	177	144	125	160	114	99	103	75	60
30mA* differential	20 A	-	149	139	-	133	124	126	94	75
protection*	25 A	-	-	-	-	-	-	-	107	94



* Suggested where protection of people is requested; installations with no personnel admittance can be performed with 100 to 300 mA.

		Thermal insulation thickness										
Pipe Ø		10	mm 20 mm		mm	30 mm		40 mm		50 mm		
			Outer temperature					(°C)				
inch	mm	-10	-20	-10	-20	-10	-20	-10	-20	-10	-20	
1/2"	15	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1- 3	1-3	
3/4"	20	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1- 3	1-3	
1"	25	1-3	1-8	1-3	1-3	1-3	1-3	1-3	1-3	1- 3	1-3	
11⁄4"	32	1-3	1-8	1-3	1-3	1-3	1-3	1-3	1-3	1- 3	1-3	
11⁄2"	40	1-3	1-8	1-3	1-3	1-3	1-3	1-3	1-3	1- 3	1-3	
2"	50	1-8	1-8	1-3	1-8	1-3	1-3	1-3	1-3	1- 3	1- 3	
21⁄2"	65	1- 8	1-8	1-3	1-8	1-3	1-3	1-3	1-3	1- 3	1-3	
3"	80	1- 8	2- 8	1-3	1- 8	1-3	1-5	1-3	1-3	1- 3	1-3	
4"	100	1- 8	2- 8	1-5	1- 8	1-3	1-5	1-3	1-5	1-3	1-3	
6"	150	2- 8	2- 8	1-8	2- 8	1- 8	1- 8	1-3	1-8	1- 3	1-8	
8"	200	2 -8	-	1-8	2 -8	1-8	1-8	1-8	1-8	1-3	1-8	
10"	250	2- 8	-	2- 8	-	1- 8	2- 8	1- 8	1-8	1- 8	1-8	

HOW TO CHOOSE MCA CABLE FOR ANTIFREEZE PROTECTION

The table gives the cable quantity for tube lenght unit (1st number) and the MCA cable code number (2nd number) versus tube diameter, thermal insulation thickness (for rockwod) and min outer temperature.

For uses other than anti-freeze, request design from Raytech technical direction.

MCA connection accessories



MCA Universal IP68 Connection kit integrated with the terminal box. • Termination Kit. • Joint Kit.



MCA-BOX3 / 4 Connection boxes between heating cables or heating and power cables.



MCA-AL

Thermal

insulation

kit.

pass-through







Aluminium self adhesive tape 25 or 75 mm.

For other accessories see page 219

MCA-FV

tape.



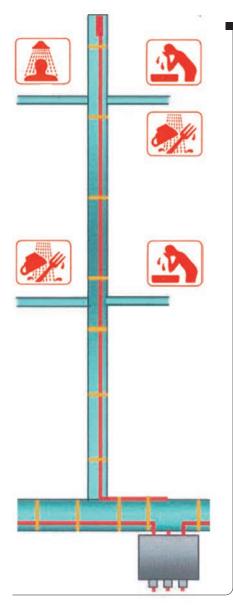
PIPING

SELF-REGULATING

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HEATING CABLES

Domestic use



MCA

Self-regulating cable for pipe tracing for domestic hot water.

The tracing of domestic hot water systems allows you to always have the water at the ideal temperature available at each pick up point: this allows an energy saving (approximately up to 70%) also for the elimination of thermal losses in recirculation pipes. The pipes must always be insulated with suitable thermal insulation; for the choice and the project, please contact Raytech.

			МСАЗ	MCA5	MCA8	MCA10-I GF
	max operat	ing	65°	65°	65°	120°
TEMPERATURE (°C)	max exposu	ıre*	80°	80°	80°	120°
	maintenance**		45°	55°	60°	80°
Available power a 40°C (W/m)		6	8	14	25	
Max length		16 A	177	160	103	85
to be supplied wirstarting at 10°C		20 A	-	-	126	114
through a switche	gear	30 A	-	-	126	-
RECOMMENDED FOR		Small villas	Blocks of flats Buildings	Blocks of flats Buildings	Hotels Hospitals	

*Circuit breakers with "C" curve, with a 30 mA differential.

**The indicated data is the limit maintenance temperature for which the cable can be used; for insulation sizing, please contact Raytech.

MCA connection accessories



MCA Universal IP68 Connection kit integrated with the terminal box. • Termination Kit. • Joint Kit.



MCA-BOX3 / 4 Connection boxes between heating cables or heating

and power cables.



Thermal

insulation

kit.

pass-through



Cable gland.









MCA-ALL Aluminium self adhesive tape 25 or 75 mm.

For other accessories see page 219

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