

MOSAIC MCT BUS TRANSFER

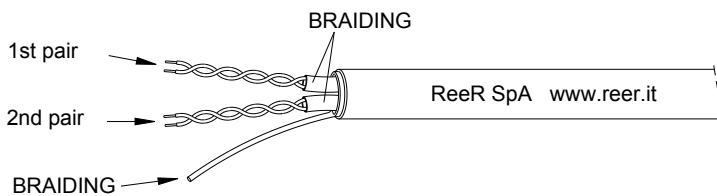
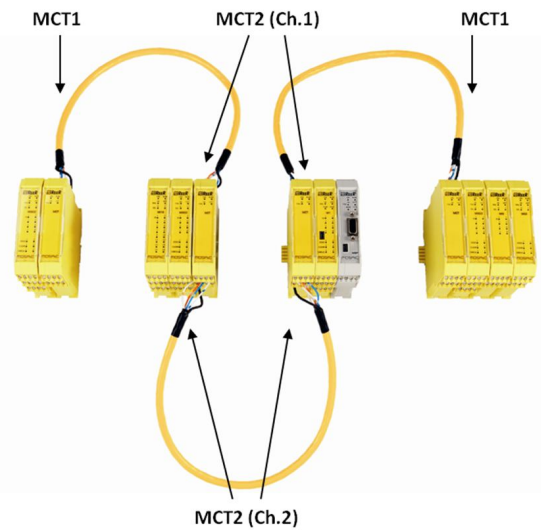
Mosaic MCT is an expansion module which allows the connection of M1 with other slave modules placed at great distances (<50m).

Through the use of a shielded cable (**REER MC25, MC50 or in accordance with the table of technical data cable**) two MCT modules placed at the desired distance can be linked together.

Each MCT2 has two independent connection channels; the connection of two MCT2 can be performed by wiring a channel of your choice. MCT1 has only one channel and must be connected as the first or last module.

The figure beside shows an example of connection.

⇒ The system response time does not change with the use of MCT modules.

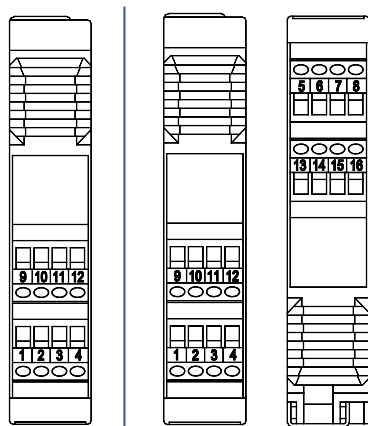


MC25, MC50 shielded cable

Cable technical data

ELEMENT	DESCRIPTION/VALUE
CONDUCTORS	2 pairs of twistate conductors with braiding
NOMINAL IMPEDANCE	120 Ω
NOMINAL CAPACITANCE	< 42pF/m
NOMINAL RESISTANCE	< 95 mΩ/m

Electrical connections



MCT1

MCT2

TERMINAL	CABLE CONNECTIONS	SIGNAL		TYPE
		MCT1	MCT2	
1		24VDC	24VDC	Power supply 24VDC
2		n.c.	n.c.	-
3		BRAIDING CH1	BRAIDING CH1	-
4		0VDC	0VDC	Power supply 0VDC
5		n.c.	n.c.	-
6		n.c.	n.c.	-
7		n.c.	BRAIDING CH2	-
8		n.c.	n.c.	-
9	1st pair twistate conductors	CH 1 – A	CH 1 – A	Be sure to connect to the corresponding terminals of the remote MCT: A <-> A B <-> B C <-> C D <-> D BRAIDING <-> BRAIDING You can also connect CH1 with CH2 (MCT2)
10		CH 1 – B	CH 1 – B	
11	2nd pair twistate conductors	CH 1 – C	CH 1 – C	
12		CH 1 – D	CH 1 – D	
13	1st pair twistate conductors	n.c.	CH 2 – A	
14		n.c.	CH 2 – B	
15	2nd pair twistate conductors	n.c.	CH 2 – C	
16		n.c.	CH 2 – D	

Signals



MEANING	LED			
	ON (GREEN)	RUN (GREEN)	IN FAIL (RED)	EXT FAIL (RED)
INITIAL TEST	ON	ON	ON	ON
NORMAL OPERATION	ON	OFF > BLINKING > ON	OFF OPERATION OK	OFF OPERATION OK
INTERNAL FAULT DETECTED <i>(Not recoverable. Restart the system)</i>	ON	OFF	BLINKING <i>Follows M1 error codification (see MOSAIC MANUAL)</i>	OFF
FAULT DETECTED ON TERMINAL CONNECTION <i>(Recoverable)</i>	ON	OFF	OFF	ON

MCT Technical Data

Interface module	Mosaic MCT1	Mosaic MCT2
Connection channels	1	2
Connections	MSC 5-poles rear connector – Terminal block 16 poles	
Modules connections	<ul style="list-style-type: none"> • Max number of connectable MCT = 6 • The possible bus module present in the system can be only allocated close to the first remote MCT or to M1 directly 	
Max length of connection	< 50m (each section)	
Operating temperature	-10 ÷ 55°C	
Storage temperature	-20 ÷ 85°C	
Relative humidity	10% ÷ 95%	
Dimensions (h x l x d)	108 x 22,5 x 114,5	