

Accessories list

MSX-Exxxx

Intelligent Ethernet systems



Accessories for the MSX-E systems

In this document, you will find the accessories needed for the different MSX-E systems. Detailed information on the accessories is listed following the tables on the next pages.


Contents

1	Product assignment	3
1.1	Cables.....	3
1.1.1	Power supply	3
1.1.2	Power supply (cascading)	4
1.1.3	Trigger/Synchro	4
1.1.4	Trigger/Synchro (cascading)	5
1.1.5	Ethernet.....	5
1.1.6	Ethernet (cascading)	6
1.1.7	Connection to peripherals.....	6
1.2	Terminals	7
1.3	Options	8
1.3.1	Mounting.....	8
1.3.2	Protection caps.....	9
1.3.3	Connectors.....	10
2	Product details	11
2.1	Cables.....	11
2.2	Terminals	12
2.3	Options	13
2.3.1	Mounting.....	13
2.3.2	Protection caps.....	13
2.3.3	Connectors.....	13


1 Product assignment

1.1 Cables


1.1.1 Power supply

Cables	CMX-20	CMX-21	CMX-22	CMX-23	CMX-29
	1.5 m	3 m	5 m	10 m	Length on request
MSX-E1516	x	x	x	x	x
MSX-E1701 MSX-E1711 MSX-E1721	x	x	x	x	x
MSX-E3011 MSX-E3021	x	x	x	x	x
MSX-E3211	x	x	x	x	x
MSX-E3311	x	x	x	x	x
MSX-E3511	x	x	x	x	x
MSX-E3601	x	x	x	x	x
MSX-E3700					
MSX-E3701	x	x	x	x	x
MSX-E3711	x	x	x	x	x


1.1.2 Power supply (cascading)

Cables	CMX-30	CMX-31	CMX-32	CMX-38	CMX-39
	1 m	3 m	5 m	0.6 m	Length on request
MSX-E1516	x	x	x	x	x
MSX-E1701 MSX-E1711 MSX-E1721	x	x	x	x	x
MSX-E3011 MSX-E3021	x	x	x	x	x
MSX-E3211	x	x	x	x	x
MSX-E3311	x	x	x	x	x
MSX-E3511	x	x	x	x	x
MSX-E3601	x	x	x	x	x
MSX-E3700					
MSX-E3701	x	x	x	x	x
MSX-E3711	x	x	x	x	x


1.1.3 Trigger/Synchro

Cables	CMX-40	CMX-41	CMX-42	CMX-43	CMX-49
	1.5 m	3 m	5 m	10 m	Length on request
MSX-E1516	x	x	x	x	x
MSX-E1701 MSX-E1711 MSX-E1721	x	x	x	x	x
MSX-E3011 MSX-E3021	x	x	x	x	x
MSX-E3211	x	x	x	x	x
MSX-E3311	x	x	x	x	x
MSX-E3511	x	x	x	x	x
MSX-E3601	x	x	x	x	x
MSX-E3700					
MSX-E3701	x	x	x	x	x
MSX-E3711	x	x	x	x	x


1.1.4 Trigger/Synchro (cascading)

Cables	CMX-50	CMX-51	CMX-52	CMX-58	CMX-59
	1 m	3 m	5 m	0.6 m	Length on request
MSX-E1516	x	x	x	x	x
MSX-E1701 MSX-E1711 MSX-E1721	x	x	x	x	x
MSX-E3011 MSX-E3021	x	x	x	x	x
MSX-E3211	x	x	x	x	x
MSX-E3311	x	x	x	x	x
MSX-E3511	x	x	x	x	x
MSX-E3601	x	x	x	x	x
MSX-E3700					
MSX-E3701	x	x	x	x	x
MSX-E3711	x	x	x	x	x


1.1.5 Ethernet

Cables	CMX-60	CMX-61	CMX-62	CMX-69
	2 m	5 m	10 m	Length on request
MSX-E1516	x	x	x	x
MSX-E1701 MSX-E1711 MSX-E1721	x	x	x	x
MSX-E3011 MSX-E3021	x	x	x	x
MSX-E3211	x	x	x	x
MSX-E3311	x	x	x	x
MSX-E3511	x	x	x	x
MSX-E3601	x	x	x	x
MSX-E3700				
MSX-E3701	x	x	x	x
MSX-E3711	x	x	x	x





1.1.6 Ethernet (cascading)

Cables	CMX-70	CMX-71	CMX-72	CMX-78	CMX-79
	2 m	5 m	10 m	1 m	Length on request
MSX-E1516	x	x	x	x	x
MSX-E1701 MSX-E1711 MSX-E1721	x	x	x	x	x
MSX-E3011 MSX-E3021	x	x	x	x	x
MSX-E3211	x	x	x	x	x
MSX-E3311	x	x	x	x	x
MSX-E3511	x	x	x	x	x
MSX-E3601	x	x	x	x	x
MSX-E3700					
MSX-E3701	x	x	x	x	x
MSX-E3711	x	x	x	x	x

1.1.7 Connection to peripherals

Cables	CMX-80	CMX-81	CMX-83	CMX-89
	1.5 m	3 m	10 m	Length on request
MSX-E1516	x	x	x	x
MSX-E1701 MSX-E1711 MSX-E1721	x	x	x	x
MSX-E3011 MSX-E3021	x	x	x	x
MSX-E3211				
MSX-E3311				
MSX-E3511	x	x	x	x
MSX-E3601				
MSX-E3700				
MSX-E3701				
MSX-E3711				

1.2 Terminals





Terminals	Power supply			Trigger/Synchro
	SMX-10	SMX-11	SMX-12	SMX-20
				
MSX-E1516				
MSX-E1701				
MSX-E1711				
MSX-E1721				
MSX-E3011				
MSX-E3021				
MSX-E3211				
MSX-E3311				
MSX-E3511				
MSX-E3601				
MSX-E3700	X	X	X	X
MSX-E3701				
MSX-E3711				

1.3 Options





1.3.1 Mounting

Mounting	MX-Clip	MX-Rail	MX-Screw
			
MSX-E1516	X	X	X
MSX-E1701 MSX-E1711 MSX-E1721	X	X	X
MSX-E3011 MSX-E3021	X	X	X
MSX-E3211		X	X
MSX-E3311		X	X
MSX-E3511	X	X	X
MSX-E3601	X	X	X
MSX-E3700	X	X	X
MSX-E3701	X	X	X
MSX-E3711	X	X	X

1.3.2 Protection caps

Protection caps	PCMX-10	PCMX-11	PCMX-12	PCMX-13
				
MSX-E1516	X			X
MSX-E1701				
MSX-E1711	X		X	X
MSX-E1721				
MSX-E3011	X			X
MSX-E3021				
MSX-E3211	X			X
MSX-E3311	X			X
MSX-E3511	X			X
MSX-E3601	X			
MSX-E3700		X		
MSX-E3701	X	X		
MSX-E3711	X	X	X	X

1.3.3 Connectors

	SC-M12 SC-M12-ABGW SC-M12-BU-ABGW	SC-M12-Y-M12	SC-M12-8 SC-M12-8-ABGW	SC-M23
Connectors				
MSX-E1516	X	X		
MSX-E1701		X		X
MSX-E1711	X			X
MSX-E1721				
MSX-E3011	X			
MSX-E3021				
MSX-E3211	X		X	
MSX-E3311	X		X	
MSX-E3511	X			
MSX-E3601	X			
MSX-E3700	X			
MSX-E3701	X			
MSX-E3711	X			X

2 Product details

2.1 Cables

Cables	Description
	Power supply
CMX-20	Shielded cable, 5-pin M12 female connector / open end, length: 1.5 m, bending radius: 59 mm, IP 65
CMX-21	Like CMX-20, length: 3 m, open end
CMX-22	Like CMX-20, length: 5 m, open end
CMX-23	Like CMX-20, length: 10 m, open end
CMX-29	Like CMX-20, length on request, open end
	Power supply (cascading)
CMX-30	Shielded cable, 5-pin M12 female connector / male connector, length: 1.5 m, bending radius: 59 mm, IP 65, for cascading two MSX-E systems
CMX-31	Like CMX-30, length: 3 m
CMX-32	Like CMX-30, length: 5 m
CMX-38	Like CMX-30, length: 0.6 m
CMX-39	Like CMX-30, length on request
	Trigger/Synchro
CMX-40	Shielded cable, 5-pin M12 female connector / open end, length: 1.5 m, bending radius: 59 mm, IP 65
CMX-41	Like CMX-40, length: 3 m, open end
CMX-42	Like CMX-40, length: 5 m, open end
CMX-43	Like CMX-40, length: 10 m, open end
CMX-49	Like CMX-40, length on request, open end
	Trigger/Synchro (cascading)
CMX-50	Shielded cable, 5-pin M12 female connector / male connector, length: 1.5 m, bending radius: 59 mm, IP 65, for cascading the trigger/synchro signals of two MSX-E systems
CMX-51	Like CMX-50, length: 3 m
CMX-52	Like CMX-50, length: 5 m
CMX-58	Like CMX-50, length: 0.6 m
CMX-59	Like CMX-50, length on request
	Ethernet
CMX-60	Shielded CAT5E cable, D-coded M12 male connector / RJ45 connector, length: 2 m, bending radius: 32.5 mm, IP 67, for the connection of the MSX-E system to an Ethernet switch or computer (LAN 10/100)
CMX-61	Like CMX-60, length: 5 m
CMX-62	Like CMX-60, length: 10 m
CMX-69	Like CMX-60, length on request

Cables	Description
CMX-70	Ethernet (cascading) Shielded CAT5E cable, 2 x D-coded M12 male connector, length: 2 m, bending radius: 32.5 mm, IP 67, for cascading the Ethernet signals of two MSX-E systems
CMX-71	Like CMX-70, length: 5 m
CMX-72	Like CMX-70, length: 10 m
CMX-78	Like CMX-70, length: 1 m
CMX-79	Like CMX-70, length on request
CMX-80	Connection to peripherals Shielded cable, 5-pin M12 male connector / open end, length: 3 m, bending radius: 59 mm, IP 65, for the connection of actuators/sensors
CMX-81	Like CMX-80, length: 3 m
CMX-83	Like CMX-80, length: 10 m
CMX-89	Like CMX-80, length on request

2.2 Terminals

Terminals	Description
SMX-10¹	Terminal for power supply, 3-pin standard terminal, 5.08 mm grid, 1-row screw connector
SMX-11	Terminal for power supply, 3-pin standard terminal, 5.08 mm grid, 2-row screw connector, for cascading the power supply
SMX-12	Terminal for power supply, 3-pin standard terminal, 5.08 mm grid, 2-row spring-cage connector, for cascading the power supply
SMX-20¹	2 terminals for trigger and trigger/synchro, 3-pin standard terminal

¹ included in standard delivery

2.3 Options

2.3.1 Mounting

Mounting	Description
MX-Clip	2 clamps for mounting the MSX-E systems on a DIN rail or directly on devices and machines
MX-Rail²	2 solid aluminium fixtures for DIN rail incl. screw set for mounting the MSX-E systems on a DIN rail
MX-Screw	4 angle brackets with screw set for mounting the MSX-E systems directly on devices and machines

2.3.2 Protection caps

Protection caps	Description
PCMX-10	Protection caps for M12 connectors (Power supply, Trigger/Synchro, Ethernet), 4 x female connector, 1 x male connector
PCMX-11	10 protection caps for M18 female connectors (transducer inputs)
PCMX-12	1 protection cap for M23 female connector (counter inputs)
PCMX-13	10 protection caps for M12 female connectors (digital, analog, temperature, pressure)

2.3.3 Connectors

Connectors	Description
SC-M12	5-pin M12 male connector for the connection of cables with an open end
SC-M12-ABGW	5-pin M12 male connector for the connection of cables with an open end, bent by 90°
SC-M12-BU-ABGW	5-pin M12 female connector for the connection of cables with an open end, bent by 90°
SC-M12-Y-M12	5-pin Y-divider (M12 male connector / 2 x M12 female connector)
SC-M12-8	8-pin M12 male connector for the connection of cables with an open end
SC-M12-8-ABGW	8-pin M12 male connector for the connection of cables with an open end, bent by 90°
SC-M23	12-pin M23 male connector for the direct connection of shaft encoders, gauges, digital transducers, etc.

² Please specify when ordering the MSX-E system!