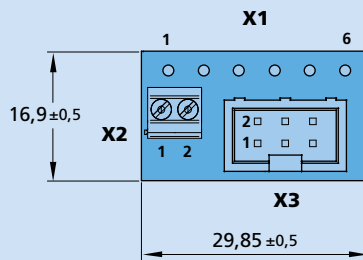


## Accessories

### Adapter for Motion Controller V2.5 and Speed Controller

#### Encoder Adapter MC, V2.5/SC » IE2/IEH2



6501.00063

#### Connection

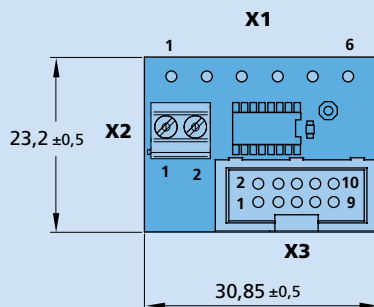
##### Pin Connection X1, X3

Pin	Connection X1, X3
1	Motor -
2	Motor +
3	SGND
4	U <sub>DB</sub>
5	Channel B
6	Channel A

##### Pin Connection X2

Pin	Connection X2
1	Motor -
2	Motor +

#### Encoder Adapter MC, V2.5/SC » IE3L/IER3L/IER53L/HEDL



6501.00064

#### Connection

##### Pin Connection X1

Pin	Connection X1
1	Motor -
2	Motor +
3	SGND
4	U <sub>DB</sub>
5	Channel B
6	Channel A

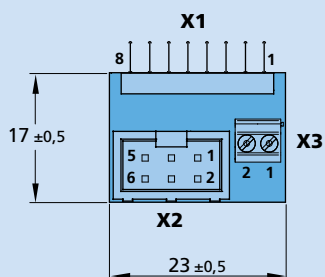
##### Pin Connection X2

Pin	Connection X2
1	Motor -
2	Motor +

##### Pin Connection X3

Pin	Connection X3
1	Motor -
2	U <sub>DB</sub>
3	SGND
4	Motor +
5	Channel A
6	Channel B
7	Channel A
8	Channel B
9	Channel I
10	Channel I

#### Encoder Adapter MC, V2.5/SC » IE2/IEH2



6501.00084

#### Connection

##### Pin Connection X1

Pin	Connection X1
1	n.c.
2	Motor -
3	Motor +
4	SGND
5	U <sub>DB</sub>
6	Channel B
7	Channel A
8	n.c.

##### Pin Connection X2

Pin	Connection X2
1	Motor -
2	Motor +
3	SGND
4	U <sub>DB</sub>
5	Channel B
6	Channel A

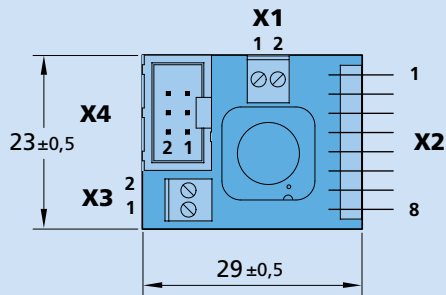
##### Pin Connection X3

Pin	Connection X3
1	Motor -
2	Motor +

## Accessories

### Adapter for Motion Controller V2.5 and Speed Controller

#### Encoder Adapter MC, V2.5/SC » IE2/IEH2



6501.00143

#### Connection

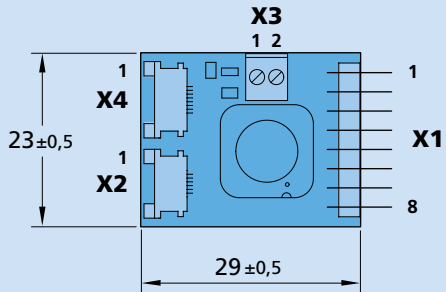
Pin	Connection X1
1	5. In
2	4. In

Pin	Connection X3
1	Motor -
2	Motor +

Pin	Connection X2
1	4. In
2	Channel A
3	Channel B
4	U <sub>DD</sub>
5	SGND
6	Motor +
7	Motor -
8	5. In

Pin	Connection X4
1	Motor -
2	Motor +
3	SGND
4	U <sub>DD</sub>
5	Channel B
6	Channel A

#### Encoder Adapter MC, V2.5/SC » PA2



6501.00144

#### Connection

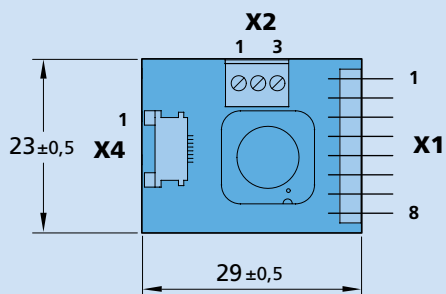
Pin	Connection X1
1	4. In
2	Channel A
3	Channel B
4	U <sub>DD</sub> = 5V
5	SGND
6	Motor +
7	Motor -
8	5. In

Pin	Connection X3
1	5. In
2	4. In

Pin	Connection X2
1	Motor +
2	U <sub>DD</sub> = 3,3V
3	Channel A
4	Channel B
5	SGND
6	Motor -

Pin	Connection X4
1	Motor +
2	Motor +
3	U <sub>DD</sub> = 3,3V
4	Channel A
5	Channel B
6	SGND
7	Motor -
8	Motor -

#### Encoder Adapter MC, V2.5/SC » HXM3



6501.00145

#### Connection

Pin	Connection X1
1	4. In
2	Channel A
3	Channel B
4	U <sub>DD</sub> = 5V
5	SGND
6	Motor +
7	Motor -
8	5. In

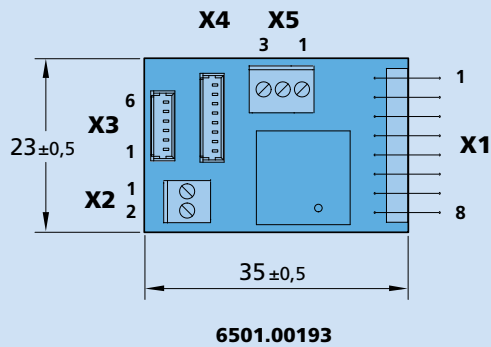
Pin	Connection X4
1	Motor +
2	U <sub>DD</sub> = 5V
3	Kanal I
4	Channel A
5	Channel B
6	N.C.
7	SGND
8	Motor -

Pin	Connection X2
1	Channel I
2	5. In
3	4. In

## Accessories

### Adapter for Motion Controller V2.5 and Speed Controller

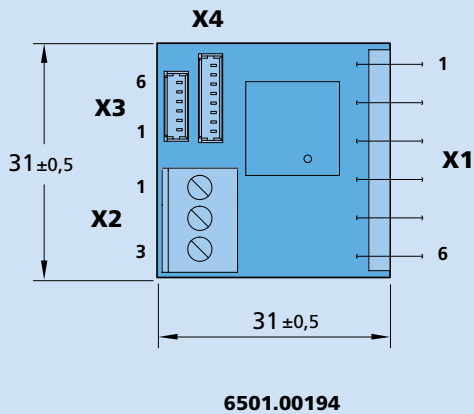
#### Encoder Adapter MC, V2.5/SC »IE3/IEH3/IER3/IER3



#### Connection

Pin	Connection X1	Pin	Connection X2
1	4. In	1	Motor +
2	Channel A	2	Motor -
3	Channel B		
4	U <sub>DD</sub> = 5V	Pin	Connection X4
5	SGND	1	N.C.
6	Motor +	2	Motor -
7	Motor -	3	Motor +
8	5. In	4	SGND
		5	U <sub>DD</sub> = 5V
Pin	Connection X3	6	Channel B
1	N.C.	7	Channel A
2	Channel I	8	Channel I
3	SGND		
4	U <sub>DD</sub> = 5V	Pin	Connection X5
5	Channel B	1	4. In
6	Channel A	2	5. In
		3	Channel I

#### Encoder Adapter MC, V2.5/SC »IE3/IEH3/IER3/IER3



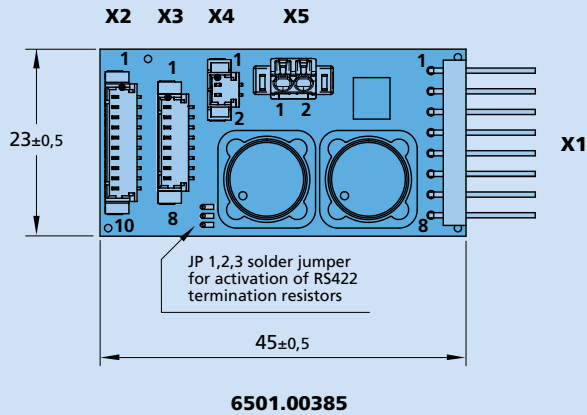
#### Connection

Pin	Connection X1	Pin	Connection X3
1	Channel A	1	N.C.
2	Channel B	2	Channel I
3	U <sub>DD</sub> = 5V	3	SGND
4	SGND	4	U <sub>DD</sub> = 5V
5	Motor +	5	Channel B
6	Motor -	6	Channel A
Pin	Connection X2	Pin	Connection X4
1	Channel I	1	N.C.
2	Motor +	2	Motor -
3	Motor -	3	Motor +
		4	SGND
		5	U <sub>DD</sub> = 5V
		6	Channel B
		7	Channel A
		8	Channel I

## Accessories

### Adapter for Speed Controller

#### Encoder Adapter SC » IEP3



#### Connection

Pin	X1 - Header	Pin	X2
1	Channel I	1	Motor -
2	Channel B	2	U <sub>DD</sub>
3	Channel A	3	GND
4	U <sub>DD</sub>	4	Motor +
5	GND	5	Channel A
6	Motor +	6	Channel A
7	Motor -	7	Channel B
8	Reserved	8	Channel B
		9	Channel I
		10	Channel I

Pin	X3 Encoder IEP3
1	N.C.
2	Motor -
3	Motor +
4	GND
5	U <sub>DD</sub>
6	Channel B
7	Channel A
8	Channel I

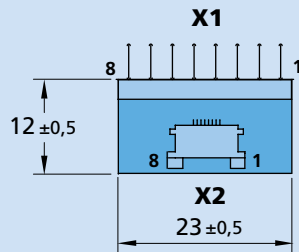
  

Pin	X4 - Motor
1	Motor +
2	Motor -

Pin	X5 - Motor
1	Motor +
2	Motor -

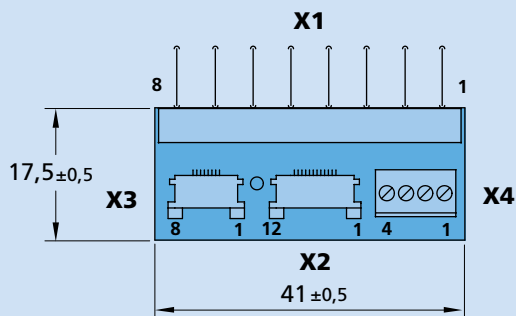
#### Motor Adapter SC » 0620...B



#### Connection

Pin	Connection X1	Pin	Connection X2
1	Motor C	1	Motor C
2	Motor B	2	Motor B
3	Motor A	3	Hall Sensor C
4	SGND	4	U <sub>DD</sub>
5	U <sub>DD</sub>	5	SGND
6	Hall Sensor C	6	Hall Sensor A
7	Hall Sensor B	7	Hall Sensor B
8	Hall Sensor A	8	Motor A

#### Motor Adapter SC » 0824...B/1028...B-IEM3



#### Connection

Pin	Connection X1	Pin	Connection X2
1	Motor C	1	Motor C
2	Motor B	2	Motor B
3	Motor A	3	Motor A
4	SGND	4	SGND
5	U <sub>DD</sub>	5	U <sub>DD</sub>
6	Hall Sensor C	6	Hall Sensor C
7	Hall Sensor B	7	Hall Sensor B
8	Hall Sensor A	8	Hall Sensor A
		9	Channel B
		10	Channel A
		11	Channel I
		12	n.c.

Pin	Connection X3
1	Motor C
2	Motor B
3	Motor A
4	SGND
5	U <sub>DD</sub>
6	Hall Sensor C
7	Hall Sensor B
8	Hall Sensor A

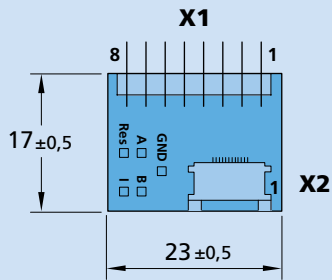
  

Pin	Connection X4
1	SGND
2	Channel B
3	Channel A
4	Channel I

## Accessories

### Adapter for Speed Controller

Motor Adapter SC » 0824...B/1028...B-IEM3



6501.00163

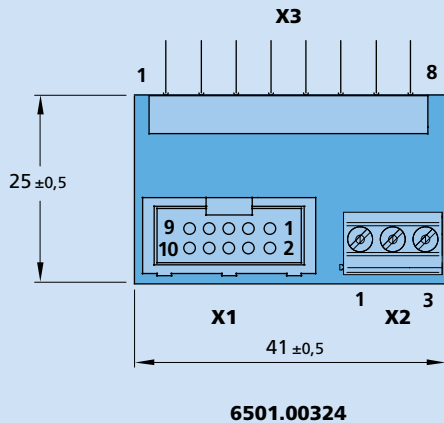
#### Connection

Pin	Connection X1	Pin	Connection X2
1	Phase C	1	Phase C
2	Phase B	2	Phase B
3	Phase A	3	Phase A
4	GND	4	GND
5	U <sub>DD</sub>	5	U <sub>DD</sub>
6	Hall Sensor C	6	Hall Sensor C
7	Hall Sensor B	7	Hall Sensor B
8	Hall Sensor A	8	Hall Sensor A
		9	Channel B
		10	Channel A
		11	Channel I
		12	N.C.

## Accessories

### Adapter for Motion Controller MC V2.5 and Speed Controller

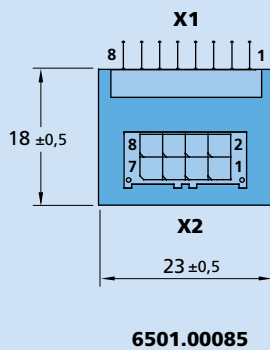
#### Motor Adapter SC » 1660...BHx



#### Connection

Pin	Connection X1	Pin	Connection X2
1	SGND	1	Phase A
2	U <sub>DD</sub>	2	Phase B
3	Hall Sensor C	3	Phase C
4	Hall Sensor C		
5	Hall Sensor B		
6	Hall Sensor B	Pin	Connection X3
7	Hall Sensor A	1	Hall Sensor A
8	Hall Sensor A	2	Hall Sensor B
9	n.c.	3	Hall Sensor C
10	n.c.	4	U <sub>DD</sub>
		5	SGND
		6	Phase A
		7	Phase B
		8	Phase C

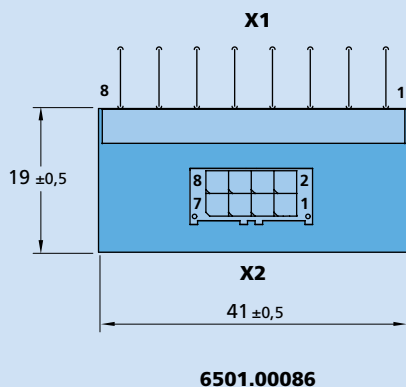
#### Motor Adapter MC, V2.5/SC » BX4 (Hall sensors)



#### Connection

Pin	Connection X1 and X2
1	Phase C
2	Phase B
3	Phase A
4	SGND
5	U <sub>DD</sub>
6	Hall Sensor C
7	Hall Sensor B
8	Hall Sensor A

#### Motor Adapter MC, V2.5/SC » BX4 (Hall sensors)



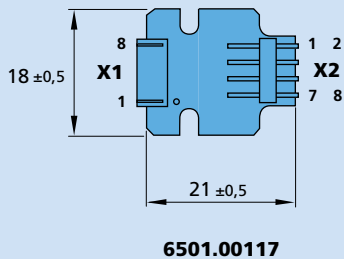
#### Connection

Pin	Connection X1 and X2
1	Phase C
2	Phase B
3	Phase A
4	SGND
5	U <sub>DD</sub>
6	Hall Sensor C
7	Hall Sensor B
8	Hall Sensor A

## Accessories

### Adapter for Motion Controller MC V2.5

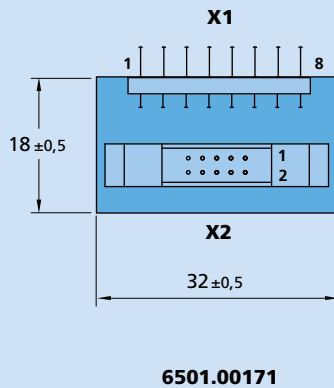
#### Motor Adapter MC, V2.5 » LM0830-...-01



#### Connection

Connectors X1		Connectors X2	
1	Motor C	1	Motor C
2	Motor B	2	Hall Sensor A
3	Motor A	3	+5V
4	SGND	4	SGND
5	+5V	5	Hall Sensor B
6	Hall Sensor C	6	Hall Sensor C
7	Hall Sensor B	7	Motor B
8	Hall Sensor A	8	Motor A

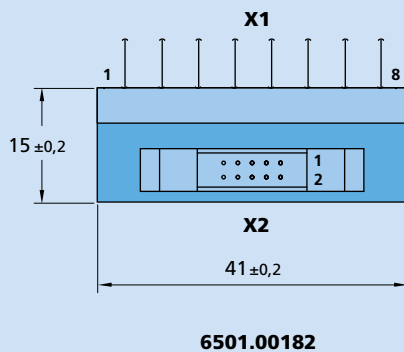
#### Motor Adapter MC, V2.5 » LM1247-...-11C/LM1483-...-11C



#### Connection

Pin	Connection X1	Pin	Connection X2
1	Hall Sensor A	1	Phase C
2	Hall Sensor B	2	Phase B
3	Hall Sensor C	3	Phase A
4	U <sub>DD</sub>	4	SGND
5	SGND	5	U <sub>DD</sub>
6	Phase A	6	Hall Sensor C
7	Phase B	7	Hall Sensor B
8	Phase C	8	Hall Sensor A
		9	n.c.
		10	n.c.

#### Motor Adapter MC, V2.5 » LM1247-...-11C/LM1483-...-11C/LM2070-...-11C



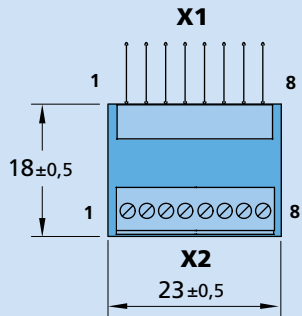
#### Connection

Pin	Connection X1	Pin	Connection X2
1	Hall Sensor A	1	Phase C
2	Hall Sensor B	2	Phase B
3	Hall Sensor C	3	Phase A
4	+ 5V	4	SGND
5	SGND	5	+ 5V
6	Phase A	6	Hall Sensor C
7	Phase B	7	Hall Sensor B
8	Phase C	8	Hall Sensor A
		9	n.c.
		10	n.c.

## Accessories

### Adapter for Motion Controller MC V2.5/V3.0

#### Motor Adapter MC, V2.5 » 0620 ... B

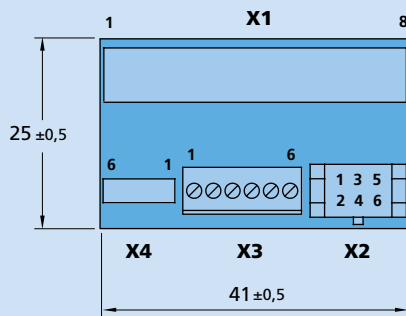


6501.00321

#### Connection

Pin	Connection X1, X2
1	Hall Sensor A
2	Hall Sensor B
3	Hall Sensor C
4	U <sub>DD</sub>
5	SGND
6	Phase A
7	Phase B
8	Phase C

#### Connection Adapter SCS » USB



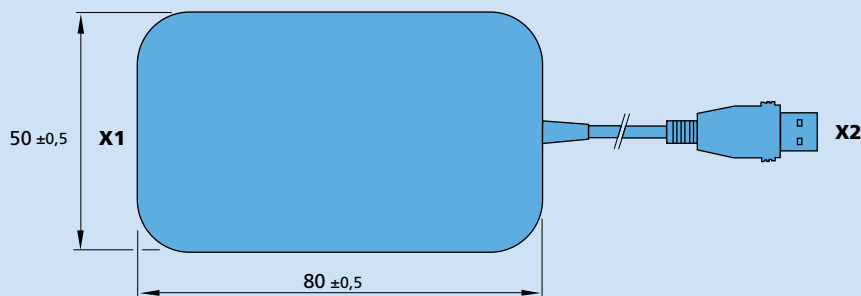
6501.00112

#### Connection

Pin	Connection X1	Pin	Connection X2, X3, X4
1	U <sub>P</sub>	1	U <sub>P</sub>
2	U <sub>mot</sub>	2	U <sub>mot</sub>
3	SGND	3	SGND
4	U <sub>rsoll</sub>	4	U <sub>rsoll</sub>
5	DIR	5	DIR
6	FG	6	FG
7	IO2		
8	IO1		

#### Adapter PC-MC, V2.5 » USB-CAN

Scale reduced



6501.00128

#### Connection

Connection X1
CAN (Sub-D9)

Connection X2
USB

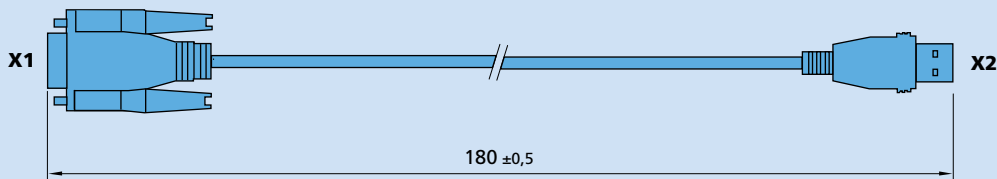


## Accessories

### Adapter for Motion Controller MC V2.5/V3.0

#### Adapter PC-MC, V2.5 » USB-RS232

Scale reduced



6501.00170

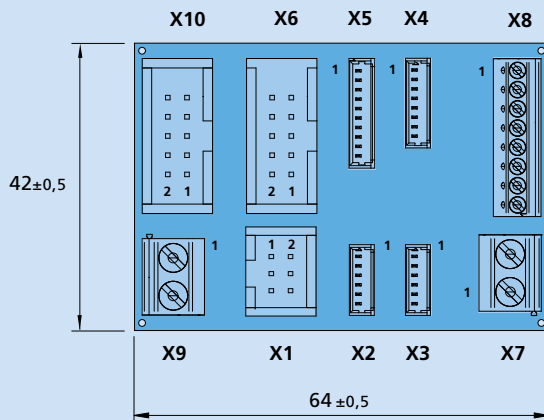
#### Connection

**Connection X1**  
RS232

**Connection X2**  
USB

#### Adapter Set MC50xx, V3.0 » Encoder

Scale reduced



6501.00323

#### Connection

No.	Function	Pin	Connection X8
X1	IE2, IEH2	1	U <sub>DD</sub>
X2	IE2, IEH2	2	GND
X3	IE3, IEF3, IER3, IERS3	3	Channel $\bar{A}$
X4	IEH3	4	Channel $\bar{A}$
X5	IE3L, IEF3L, IER3L, IERS3L, HEDL, AESL	5	Channel $\bar{B}$
X6	IE3L, IEF3L, IER3L, IERS3L, HEDL, AESL	6	Channel $\bar{B}$
X7	DC-phase	7	Channel $\bar{T}$
X8	Generic Encoder	8	Channel $\bar{I}$
X9	DC-phase		
X10	Controller		

## Accessories

### Cable

#### Cable for Motion Control Systems

Article no.	Type	Version	Length mm
6501.00270	Cable MCS, V3.0	EtherCAT, connector M8-M8, straight	1 500
6501.00210	Cable MCS, V3.0	EtherCAT, connector M8-M8, angled	1 500
6501.00271	Cable MCS, V3.0	EtherCAT, connector M8-RJ45, straight	1 500
6501.00211	Cable MCS, V3.0	EtherCAT, connector M8-RJ45, angled	1 500
6501.00255	Cable MCS, V3.0	Supply, connector M12, 4-pin, straight	1 500
6501.00256	Cable MCS, V3.0	Supply, connector M12, 4-pin, angled	1 500
6501.00257	Cable MCS, V3.0	I/O, connector M12, 12-pin, straight	1 500
6501.00258	Cable MCS, V3.0	I/O, connector M12, 12-pin, angled	1 500
6501.00140	Cable CxD, V2.5	BX4	1 000

#### Cable for Speed Controller

Article no.	Type	Version	Length mm
6501.00025	Cable SC	IE2, IEH2	200
6501.00141	Cable SC	BX4 (Hall sensors)	300
6501.00002	Adapter cable for encoder DC SC	HEDS	600
6501.00287	Adapter cable for encoder DC SC	HEDS	300

#### Cable for Motion Controller V2.5

Article no.	Type	Version	Length mm
6501.00025	Cable MC, V2.5	IE2, IEH2	200
6501.00118	Cable MC, V2.5	LM0830	200
6501.00141	Cable MC, V2.5	BX4 (Hall sensors)	300
6501.00002	Adapter cable for encoder DC MC, V2.5	HEDS	600
6501.00287	Adapter cable for encoder DC MC, V2.5	HEDS	300
6501.00003	Cable (zero modem) PC-MC, V2.5	RS232-RS232	3 000

#### Cable for Motion Controller V3.0

Article no.	Type	Version	Length mm
6501.00224	Cable MC50xx	USB 2.0, A-MINI B	1 000
6501.00377	Cable MC50xx, MC3001, MC3603, V3.0	IE3L, IER3L, IERS3L, HEDL, AESL	2 000
6501.00262	Cable MC5010, V3.0	BL Phase (3274...BP4, 4490...B/BS)	2 000
6501.00263	Cable MC5010, V3.0	3274...BP4, Hall sensors	2 000
6501.00264	Cable MC50xx, V3.0	BL Hall sensors+Phases	2 000
6501.00265	Cable MC50xx, V3.0	DC supply	2 000
6501.00266	Cable MC50xx, MC3001, MC3603, V3.0	IEH3	2 000
6501.00267	Cable MC50xx, MC3001, MC3603, V3.0	IE3, IE2, IEH2, IER3, IERS3, HEDS	2 000
6501.00268	Cable MC50xx, V3.0	RS232	300
6501.00269	Cable MC50xx, V3.0	CAN	300
6501.00272	Cable MC5004, V3.0	EtherCAT, RJ45-RJ45 straight (board connection)	200
6501.00274	Cable MC50xx, V3.0	EtherCAT, RJ45-RJ45	2 000
6501.00327	Cable MC50xx, V3.0	BHx (Hall sensors + IEM3)	300
6501.00328	Cable MC50xx, V3.0	BHx (Phases)	300
6501.00338	Cable MC50xx, V3.0	BX4 (Phases)	2 000
6501.00275	Adapter cable for encoder DC MC, V3.0	HEDS	130
6501.00278	Ribbon cable MC5004, V3.0	EtherCAT, DIN-DIN (board connection)	100
6501.00279	Ribbon cable MC5004, V3.0	EtherCAT, DIN-DIN (motherboard connection)	250
6501.00369	Cable MC30xx, MC36xx, V3.0	Battery adapter AEMTL	150
6501.00370	Cable MC50xx, MC3001, MC3603, V3.0	AEMTL	2 000
6501.00371	Cable MC30xx, MC36xx, V3.0	BL Hall sensors+Phases	2 000
6501.00372	Cable MC30xx, MC36xx, V3.0	DC Phases	2 000
6501.00373	Cable MC30xx, MC36xx, V3.0	IEH3L	75

#### Cable for Motion Controller Stepper Motors

Article no.	Type	Version	Length mm
6502.00509	Cable MCST3601	DM66200H	250

**Notice:** Other cable lengths are available on request.

# Accessories

## Other accessories

**Other accessories**

Article no.	Type	Version
6501.00375	Installation set MC V2.5/V3.0, SC (Housing variant)	Top-hat rail
6501.00223	Installation set MC5005/5010, V3.0	Top-hat rail
6502.00338	Mounting adapter foot MC V2.5/V3.0, SC (Housing variant)	Top-hat rail
6501.00221	Connector set MC5005/5010, V3.0	Supply side
6501.00222	Connector set MC5005/5010, V3.0	Motor side
6500.01676	Motherboard MB4 MC5004, V3.0	Horizontal connector
6500.01681	Motherboard MB4 MC5004, V3.0	Vertical connector
6501.00234	Connector set Motherboard MB4 MC5004, V3.0	Supply side
6501.00276	Connector set Motherboard MB4 MC5004, V3.0	Controller
6501.00362	Connector set MC3001/3603, V3.0	Supply side and Motor side (for MC3001 with MB 6500.01802 or MC3603)