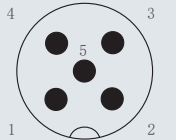


DATA CONNECTORS AND CABLES

Fieldbus Components - Prefabricated Cables

Prefabricated cable, DeviceNet™/CANopen®, M12



Technical parameters

Rated voltage	[V]	Bus cable	60	M12 Quick connection	60
	[A]	4	4	4	4
Contact resistance			≤ 5mΩ		≤ 5mΩ
Cross-section of the signal line			0.2		0.2
Cross-section of power cables			0.32		0.32
It complies with the flame retardant grade determined by UL94			HB		HB
Cable diameter	[mm]		6.70mm		6.70mm
Pin insertion/Pin insertion surface coating			CuSn//Ni/Au		CuSn//Ni/Au
Core material			TPU GF		TPU GF
Protection grade			IP65/IP67/IP69K		IP65/IP67/IP69K
Temperature parameter					
Cable, fixed installation	[°C]		-40 ... 80		-40 ... 80
Cable, movable installation	[°C]		-20 ... 75		-20 ... 75
Needle type/hole type	[°C]		-25 ... 90		-25 ... 90

Order data

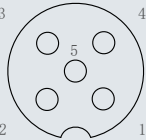
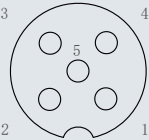
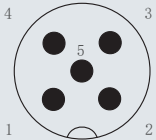
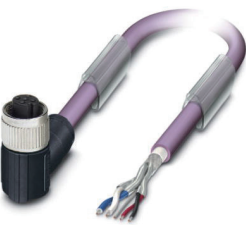
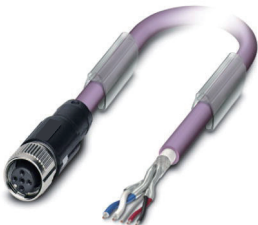
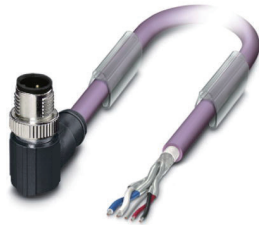
	Model	Order Number	Model	Order Number
0.3m	DC-OE-OE-8BR/L0003	3343000003	DC-MSB-OE-8BR/L0003	3343100003
0.5m	DC-OE-OE-8BR/L0005	3343000005	DC-MSB-OE-8BR/L0005	3343100005
1m	DC-OE-OE-8BR/L0010	3343000010	DC-MSB-OE-8BR/L0010	3343100010
2m	DC-OE-OE-8BR/L0020	3343000020	DC-MSB-OE-8BR/L0020	3343100020
5m	DC-OE-OE-8BR/L0050	3343000050	DC-MSB-OE-8BR/L0050	3343100050
10m	DC-OE-OE-8BR/L0100	3343000100	DC-MSB-OE-8BR/L0100	3343100100
15m	DC-OE-OE-8BR/L0150	3343000150	DC-MSB-OE-8BR/L0150	3343100150
20m	DC-OE-OE-8BR/L0200	3343000200	DC-MSB-OE-8BR/L0200	3343100200
Customizable	DC-OE-OE-8BR/L0000	3343000000	DC-MSB-OE-8BR/L0000	3343100000

Signal Indication, Line Allocation

M12	Core wire color	Signal
5	blue	CAN_L
4	white	CAN_H
2	red	V+
3	black	V-

DATA CONNECTORS AND CABLES

Fieldbus Components - Prefabricated Cables



M12	60	M12	60	M12	60
4	4	4	4	4	4
≤ 5mΩ	≤ 5mΩ	≤ 5mΩ	≤ 5mΩ	≤ 5mΩ	≤ 5mΩ
0.2	0.2	0.2	0.2	0.2	0.2
0.32	0.32	0.32	0.32	0.32	0.32
HB	HB	HB	HB	HB	HB
6.70mm	6.70mm	6.70mm	6.70mm	6.70mm	6.70mm
CuSn//Ni/Au	CuSn//Ni/Au	CuSn//Ni/Au	CuSn//Ni/Au	CuSn//Ni/Au	CuSn//Ni/Au
TPU GF	TPU GF	TPU GF	TPU GF	TPU GF	TPU GF
IP65/IP67/IP69K	IP65/IP67/IP69K	IP65/IP67/IP69K	IP65/IP67/IP69K	IP65/IP67/IP69K	IP65/IP67/IP69K
-40 ... 80	-40 ... 80	-40 ... 80	-40 ... 80	-40 ... 80	-40 ... 80
-20 ... 75	-20 ... 75	-20 ... 75	-20 ... 75	-20 ... 75	-20 ... 75
-25 ... 90	-25 ... 90	-25 ... 90	-25 ... 90	-25 ... 90	-25 ... 90

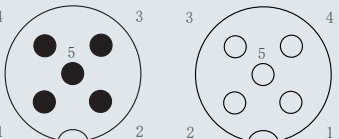
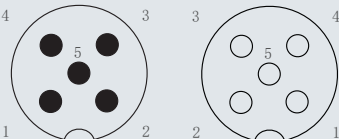
Model	Order Number	Model	Order Number	Model	Order Number
DC-MRB-OE-8BR/L0003	3343200003	DC-FSB-OE-8BR/L0003	3343300003	DC-FRB-OE-8BR/L0003	3343400003
DC-MRB-OE-8BR/L0005	3343200005	DC-FSB-OE-8BR/L0005	3343300005	DC-FRB-OE-8BR/L0005	3343400005
DC-MRB-OE-8BR/L0010	3343200010	DC-FSB-OE-8BR/L0010	3343300010	DC-FRB-OE-8BR/L0010	3343400010
DC-MRB-OE-8BR/L0020	3343200020	DC-FSB-OE-8BR/L0020	3343300020	DC-FRB-OE-8BR/L0020	3343400020
DC-MRB-OE-8BR/L0050	3343200050	DC-FSB-OE-8BR/L0050	3343300050	DC-FRB-OE-8BR/L0050	3343400050
DC-MRB-OE-8BR/L0100	3343200100	DC-FSB-OE-8BR/L0100	3343300100	DC-FRB-OE-8BR/L0100	3343400100
DC-MRB-OE-8BR/L0150	3343200150	DC-FSB-OE-8BR/L0150	3343300150	DC-FRB-OE-8BR/L0150	3343400150
DC-MRB-OE-8BR/L0200	3343200200	DC-FSB-OE-8BR/L0200	3343300200	DC-FRB-OE-8BR/L0200	3343400200
DC-MRB-OE-8BR/L0000	3343200000	DC-FSB-OE-8BR/L0000	3343300000	DC-FRB-OE-8BR/L0000	3343400000

M12	Core wire color	Signal	M12	Core wire color	Signal	M12	Core wire color	Signal
5	blue	CAN_L	5	blue	CAN_L	5	blue	CAN_L
4	white	CAN_H	4	white	CAN_H	4	white	CAN_H
2	red	V+	2	red	V+	2	red	V+
3	black	V-	3	black	V-	3	black	V-

DATA CONNECTORS AND CABLES

Fieldbus Components - Prefabricated Cables

Prefabricated cable, DeviceNet™/CANopen®, M12



Technical parameters

Rated voltage Rated voltage Contact resistance Cross-section of the signal line Cross-section of power cables It complies with the flame retardant grade determined by UL94 Cable diameter Pin insertion/Pin insertion surface coating Core material Protection grade Temperature parameter Cable, fixed installation Cable, movable installation Needle type/hole type	[V]	M12 60	M12 60 4 ≤ 5mΩ 0.2 0.32 HB 6.70mm CuSn//Ni/Au TPU GF IP65/IP67/IP69K -40 ... 80 -20 ... 75 -25 ... 90
	[A]	4	
	[mm²]	≤ 5mΩ	
	[mm²]	0.2	
	[mm²]	0.32	
		HB	
	[mm]	6.70mm	
		CuSn//Ni/Au	
		TPU GF	
	[°C]	IP65/IP67/IP69K	
Rated voltage Rated voltage Contact resistance Cross-section of the signal line Cross-section of power cables It complies with the flame retardant grade determined by UL94 Cable diameter Pin insertion/Pin insertion surface coating Core material Protection grade Temperature parameter Cable, fixed installation Cable, movable installation Needle type/hole type	[V]	M12 60	
	[A]	4	
	[mm²]	≤ 5mΩ	
	[mm²]	0.2	
	[mm²]	0.32	
		HB	
	[mm]	6.70mm	
		CuSn//Ni/Au	
		TPU GF	
	[°C]	IP65/IP67/IP69K	

Order data

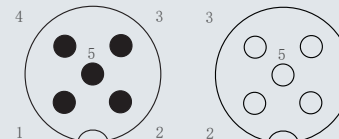
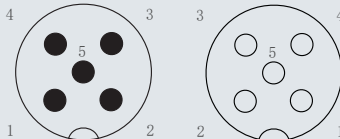
	Model	Order Number	Model	Order Number
0.3m	DC-MSB-FSB-8BR/L0003	3343130003	DC-MRB-FSB-8BR/L0003	3343230003
0.5m	DC-MSB-FSB-8BR/L0005	3343130005	DC-MRB-FSB-8BR/L0005	3343230005
1m	DC-MSB-FSB-8BR/L0010	3343130010	DC-MRB-FSB-8BR/L0010	3343230010
2m	DC-MSB-FSB-8BR/L0020	3343130020	DC-MRB-FSB-8BR/L0020	3343230020
5m	DC-MSB-FSB-8BR/L0050	3343130050	DC-MRB-FSB-8BR/L0050	3343230050
10m	DC-MSB-FSB-8BR/L0100	3343130100	DC-MRB-FSB-8BR/L0100	3343230100
15m	DC-MSB-FSB-8BR/L0150	3343130150	DC-MRB-FSB-8BR/L0150	3343230150
20m	DC-MSB-FSB-8BR/L0200	3343130200	DC-MRB-FSB-8BR/L0200	3343230200
Customizable	DC-MSB-FSB-8BR/L0000	3343130000	DC-MRB-FSB-8BR/L0000	3343230000

Signal Indication, Line Allocation

M12	Core wire color	Signal	M12	M12	Core wire color	Signal	M12
5	blue	CAN_L	5	5	blue	CAN_L	5
4	white	CAN_H	4	4	white	CAN_H	4
2	red	V+	2	2	red	V+	2
3	black	V-	3	3	black	V-	3

DATA CONNECTORS AND CABLES

Fieldbus Components - Prefabricated Cables



Technical parameters

Rated voltage Rated voltage Contact resistance Cross-section of the signal line Cross-section of power cables It complies with the flame retardant grade determined by UL94 Cable diameter Pin insertion/Pin insertion surface coating Core material Protection grade Temperature parameter Cable, fixed installation Cable, movable installation Needle type/hole type	[V]	M12 60	M12 60 4 ≤ 5mΩ 0.2 0.32 HB 6.70mm CuSn//Ni/Au TPU GF IP65/IP67/IP69K -40 ... 80 -20 ... 75 -25 ... 90
	[A]	4	
	[mm²]	≤ 5mΩ	
	[mm²]	0.2	
	[mm²]	0.32	
		HB	
	[mm]	6.70mm	
		CuSn//Ni/Au	
		TPU GF	
	[°C]	IP65/IP67/IP69K	
Rated voltage Rated voltage Contact resistance Cross-section of the signal line Cross-section of power cables It complies with the flame retardant grade determined by UL94 Cable diameter Pin insertion/Pin insertion surface coating Core material Protection grade Temperature parameter Cable, fixed installation Cable, movable installation Needle type/hole type	[V]	M12 60	
	[A]	4	
	[mm²]	≤ 5mΩ	
	[mm²]	0.2	
	[mm²]	0.32	
		HB	
	[mm]	6.70mm	
		CuSn//Ni/Au	
		TPU GF	
	[°C]	IP65/IP67/IP69K	

Order data

	Model	Order Number	Model	Order Number
0.3m	DC-MSB-FRB-8BR/L0003	3343140003	DC-MRB-FRB-8BR/L0003	3343240003
0.5m	DC-MSB-FRB-8BR/L0005	3343140005	DC-MRB-FRB-8BR/L0005	3343240005
1m	DC-MSB-FRB-8BR/L0010	3343140010	DC-MRB-FRB-8BR/L0010	3343240010
2m	DC-MSB-FRB-8BR/L0020	3343140020	DC-MRB-FRB-8BR/L0020	3343240020
5m	DC-MSB-FRB-8BR/L0050	3343140050	DC-MRB-FRB-8BR/L0050	3343240050
10m	DC-MSB-FRB-8BR/L0100	3343140100	DC-MRB-FRB-8BR/L0100	3343240100
15m	DC-MSB-FRB-8BR/L0150	3343140150	DC-MRB-FRB-8BR/L0150	3343240150
20m	DC-MSB-FRB-8BR/L0200	3343140200	DC-MRB-FRB-8BR/L0200	3343240200
Customizable	DC-MSB-FRB-8BR/L0000	3343140000	DC-MRB-FRB-8BR/L0000	3343240000

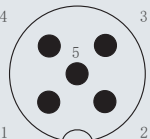
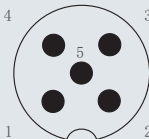
Signal Indication, Line Allocation

M12	Core wire color	Signal	M12	M12	Core wire color	Signal	M12
5	blue	CAN_L	5	5	blue	CAN_L	5
4	white	CAN_H	4	4	white	CAN_H	4
2	red	V+	2	2	red	V+	2
3	black	V-	3	3	black	V-	3

DATA CONNECTORS AND CABLES

Fieldbus Components - Prefabricated Cables

Prefabricated cable, DeviceNet™/CANopen®, M12



Technical parameters

Rated voltage	[V]	60	60
Rated current	[A]	4	4
Contact resistance		< 5mΩ	< 5mΩ
Pin insertion material		CuSn	CuSn
Material of the pin insertion surface		Ni/Au	Ni/Au
Plug material		TPU	TPU
Protection grade		IP65/IP67/IP69K	IP65/IP67/IP69K
Temperature parameter		-25 ... 90	-25 ... 90
Needle type/hole type	[°C]		

Order data

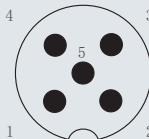
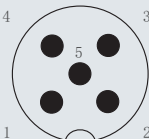
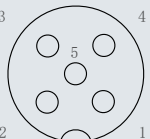
	Model	Order Number	Model	Order Number
0.3m	DC-MSA-OE-8BO/L0003	3341100003	DC-MRA-OE-8BO/L0003	3341200003
0.5m	DC-MSA-OE-8BO/L0005	3341100005	DC-MRA-OE-8BO/L0005	3341200005
1m	DC-MSA-OE-8BO/L0010	3341100010	DC-MRA-OE-8BO/L0010	3341200010
2m	DC-MSA-OE-8BO/L0020	3341100020	DC-MRA-OE-8BO/L0020	3341200020
5m	DC-MSA-OE-8BO/L0050	3341100050	DC-MRA-OE-8BO/L0050	3341200050
10m	DC-MSA-OE-8BO/L0100	3341100100	DC-MRA-OE-8BO/L0100	3341200100
15m	DC-MSA-OE-8BO/L0150	3341100150	DC-MRA-OE-8BO/L0150	3341200150
20m	DC-MSA-OE-8BO/L0200	3341100200	DC-MRA-OE-8BO/L0200	3341200200
Customizable	DC-MSA-OE-8BO/L0000	3341100000	DC-MRA-OE-8BO/L0000	3341200000

Signal Indication, Line Allocation

M12	Core wire color	Signal	M12	Core wire color	Signal
1	Shielding		1	Shielding	
2	red	V+	2	red	V+
3	black	V-	3	black	V-
4	white	CAN_H	4	white	CAN_H
5	blue	CAN_L	5	blue	CAN_L

DATA CONNECTORS AND CABLES

Fieldbus Components - Prefabricated Cables

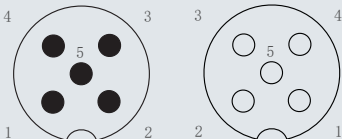
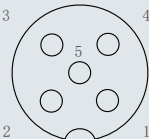


60	60	60
4	4	4
< 5mΩ	< 5mΩ	< 5mΩ
CuSn	CuSn	CuSn
Ni/Au	Ni/Au	Ni/Au
TPU	TPU	TPU
IP65/IP67/IP69K	IP65/IP67/IP69K	IP65/IP67/IP69K
-25 ... 90	-25 ... 90	-25 ... 90

Model	Order Number	Model	Order Number	Model	Order Number
DC-FSA-OE-8BO/L0003	3341300003	DC-MSA-FSA-8BO/L0003	3341130003	DC-MRA-FSA-8BO/L0003	3341230003
DC-FSA-OE-8BO/L0005	3341300005	DC-MSA-FSA-8BO/L0005	3341130005	DC-MRA-FSA-8BO/L0005	3341230005
DC-FSA-OE-8BO/L0010	3341300010	DC-MSA-FSA-8BO/L0010	3341130010	DC-MRA-FSA-8BO/L0010	3341230010
DC-FSA-OE-8BO/L0020	3341300020	DC-MSA-FSA-8BO/L0020	3341130020	DC-MRA-FSA-8BO/L0020	3341230020
DC-FSA-OE-8BO/L0050	3341300050	DC-MSA-FSA-8BO/L0050	3341130050	DC-MRA-FSA-8BO/L0050	3341230050
DC-FSA-OE-8BO/L0100	3341300100	DC-MSA-FSA-8BO/L0100	3341130100	DC-MRA-FSA-8BO/L0100	3341230100
DC-FSA-OE-8BO/L0150	3341300150	DC-MSA-FSA-8BO/L0150	3341130150	DC-MRA-FSA-8BO/L0150	3341230150
DC-FSA-OE-8BO/L0200	3341300200	DC-MSA-FSA-8BO/L0200	3341130200	DC-MRA-FSA-8BO/L0200	3341230200
DC-FSA-OE-8BO/L0000	3341300000	DC-MSA-FSA-8BO/L0000	3341130000	DC-MRA-FSA-8BO/L0000	3341230000

M12	Core wire color	Signal	M12	Core wire color	Signal	M12	Core wire color	Signal	M12	Core wire color	Signal
1	Shielding		1	Shielding		1	Shielding		1	Shielding	
2	red	V+	2	red	V+	2	red	V+	2	red	V+
3	black	V-	3	black	V-	3	black	V-	3	black	V-
4	white	CAN_H	4	white	CAN_H	4	white	CAN_H	4	white	CAN_H
5	blue	CAN_L	5	blue	CAN_L	5	blue	CAN_L	5	blue	CAN_L

Prefabricated cable, DeviceNet™/CANopen®, M12



Technical parameters

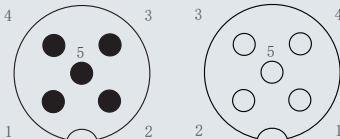
Rated voltage	[V]	60	60
Rated current	[A]	4	4
Contact resistance		< 5mΩ	< 5mΩ
Pin insertion material		CuSn	CuSn
Material of the pin insertion surface		Ni/Au	Ni/Au
Plug material		TPU	TPU
Protection grade		IP65/IP67/IP69K	IP65/IP67/IP69K
Temperature parameter		-25 ... 90	-25 ... 90
Needle type/hole type	[°C]		

Order data

	Model	Order Number	Model	Order Number
0.3m	DC-FRA-OE-8BO/L0003	3341400003	DC-MSA-FRA-8BO/L0003	3341140003
0.5m	DC-FRA-OE-8BO/L0005	3341400005	DC-MSA-FRA-8BO/L0005	3341140005
1m	DC-FRA-OE-8BO/L0010	3341400010	DC-MSA-FRA-8BO/L0010	3341140010
2m	DC-FRA-OE-8BO/L0020	3341400020	DC-MSA-FRA-8BO/L0020	3341140020
5m	DC-FRA-OE-8BO/L0050	3341400050	DC-MSA-FRA-8BO/L0050	3341140050
10m	DC-FRA-OE-8BO/L0100	3341400100	DC-MSA-FRA-8BO/L0100	3341140100
15m	DC-FRA-OE-8BO/L0150	3341400150	DC-MSA-FRA-8BO/L0150	3341140150
20m	DC-FRA-OE-8BO/L0200	3341400200	DC-MSA-FRA-8BO/L0200	3341140200
Customizable	DC-FRA-OE-8BO/L0000	3341400000	DC-MSA-FRA-8BO/L0000	3341140000

Signal Indication, Line Allocation

M12	Core wire color	Signal	M12	Core wire color	Signal	M12
1	Shielding		1	Shielding		1
2	red	V+	2	red	V+	2
3	black	V-	3	black	V-	3
4	white	CAN_H	4	white	CAN_H	4
5	blue	CAN_L	5	blue	CAN_L	5



Technical parameters

Rated voltage	[V]	60	60
Rated current	[A]	4	4
Contact resistance		< 5mΩ	< 5mΩ
Pin insertion material		CuSn	CuSn
Material of the pin insertion surface		Ni/Au	Ni/Au
Plug material		TPU	TPU
Protection grade		IP65/IP67/IP69K	IP65/IP67/IP69K
Temperature parameter		-25 ... 90	-25 ... 90
Needle type/hole type	[°C]		

Order data

	Model	Order Number		Model	Order Number
0.3m	DC-MRA-FRA-8BO/L0003	3341240003	0.3m	DC-MRA-FRA-8BO/L0003	3341240003
0.5m	DC-MRA-FRA-8BO/L0005	3341240005	0.5m	DC-MRA-FRA-8BO/L0005	3341240005
1m	DC-MRA-FRA-8BO/L0010	3341240010	1m	DC-MRA-FRA-8BO/L0010	3341240010
2m	DC-MRA-FRA-8BO/L0020	3341240020	2m	DC-MRA-FRA-8BO/L0020	3341240020
5m	DC-MRA-FRA-8BO/L0050	3341240050	5m	DC-MRA-FRA-8BO/L0050	3341240050
10m	DC-MRA-FRA-8BO/L0100	3341240100	10m	DC-MRA-FRA-8BO/L0100	3341240100
15m	DC-MRA-FRA-8BO/L0150	3341240150	15m	DC-MRA-FRA-8BO/L0150	3341240150
20m	DC-MRA-FRA-8BO/L0200	3341240200	20m	DC-MRA-FRA-8BO/L0200	3341240200
Customizable	DC-MRA-FRA-8BO/L0000	3341240000	Customizable	DC-MRA-FRA-8BO/L0000	3341240000

Signal Indication, Line Allocation

M12	Core wire color	Signal	M12	Core wire color	Signal	M12
1	Shielding		1	Shielding		1
2	red	V+	2	red	V+	2
3	black	V-	3	black	V-	3
4	white	CAN_H	4	white	CAN_H	4
5	blue	CAN_L	5	blue	CAN_L	5