

CABLE-FCN40/...M/M340

System cables for Telemecanique Modicon® M340

INTERFACE

Data sheet
103912_en_00

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1 Description

These system cables are plugged into Modicon® M340 I/O boards, which are connected via Fujitsu connectors.

Two connection options are available:

CABLE-FCN40/1X50/...M/M340

- Signal transfer of 32 channels

CABLE-FCN40/4X14/...M/M340

- Splitting of 32 channels into 4 x 8 channels

The following I/O boards can be connected:

- BMX DDI 3202K
- BMX DDI 6402K
- BMX DD0 3202K
- BMX DD0 6402K
- BMX DDM 3202K



Make sure you always use the latest documentation.
It can be downloaded at www.phoenixcontact.net/download.



This data sheet is valid for all products listed on the following page:

2 Ordering data

System cables

Description	Cable length	Type	Order No.	Pcs./Pkt.
Assembled round cable , 40-pos. Fujitsu strip on 50-pos. FLK strip (for connecting 32 channels to MODICON® M340 I/O boards)	0.5 m	CABLE-FCN40/1X50/0,5M/M340	2321635	1
	1.0 m	CABLE-FCN40/1X50/1,0M/M340	2321648	1
	2.0 m	CABLE-FCN40/1X50/2,0M/M340	2321651	1
	3.0 m	CABLE-FCN40/1X50/3,0M/M340	2321664	1
	4.0 m	CABLE-FCN40/1X50/4,0M/M340	2321677	1
	6.0 m	CABLE-FCN40/1X50/6,0M/M340	2321680	1
	8.0 m	CABLE-FCN40/1X50/8,0M/M340	2321693	1
	10.0 m	CABLE-FCN40/1X50/10,0M/M340	2321703	1
Assembled round cable , 40-pos. Fujitsu strip on four 14-pos. FLK strips (for connecting 32 channels to MODICON® M340 I/O boards)	0.5 m	CABLE-FCN40/4X14/0,5M/M340	2321716	1
	1.0 m	CABLE-FCN40/4X14/1,0M/M340	2321729	1
	2.0 m	CABLE-FCN40/4X14/2,0M/M340	2321732	1
	3.0 m	CABLE-FCN40/4X14/3,0M/M340	2321745	1
	4.0 m	CABLE-FCN40/4X14/4,0M/M340	2321758	1
	6.0 m	CABLE-FCN40/4X14/6,0M/M340	2321761	1
	8.0 m	CABLE-FCN40/4X14/8,0M/M340	2321774	1
	10.0 m	CABLE-FCN40/4X14/10,0M/M340	2321787	1

3 Technical data

General data	CABLE-FCN40/1X50/.../M340	CABLE-FCN40/4X14/.../M340
Nominal voltage UN	< 50 V AC/60 V DC	
Maximum permissible current carrying capacity per path	1 A	
Maximum conductor resistance	0.16 Ω/m	
Ambient temperature range		
Operation	-20°C ... +50°C	
Storage/transport	-20°C ... +70°C	
Conductor cross-section	0.14 mm ² (26 AWG)	
Conductor structure	7 litz wires, Cu tin-plated	
Outside diameter	10 mm	6.3 mm
Assembly	IDC IEC 60352-4/DIN EN 60352-4	
Connector, control side	40-pos. Fujitsu FCN connection	
Connector, module side	50-pos. flat-ribbon cable connection	4 x 14-pos. flat-ribbon cable connection

4 Color code and pin assignment

CABLE-FCN40/1X50/...M/M340

Connector, control side	Connector, module side	Conductor color
A1	47(-)	Black
B1	37(+)	Brown
A2	35(-)	Red
B2	25(+)	Orange
A3	46	Yellow
B3	45	Green
A4	44	Blue
B4	43	Violet
A5	42	Gray
B5	41	White
A6	40	White-black
B6	39	White-brown
A7	34	White-red
B7	33	White-orange
A8	32	White-yellow
B8	31	White-green
A9	30	White-blue
B9	29	White-violet
A10	28	White-gray
B10	27	Brown-black
A11	23(-)	Brown-red
B11	13(+)	Brown-orange
A12	11(-)	Brown-yellow
B12	1(+)	Brown-green
A13	22	Brown-blue
B13	21	Brown-violet
A14	20	Brown-gray
B14	19	Brown-white
A15	18	Green-black
B15	17	Green-brown
A16	16	Green-red
B16	15	Green-orange
A17	10	Green-blue
B17	9	Green-violet
A18	8	Green-gray
B18	7	Green-white
A19	6	Yellow-black
B19	5	Yellow-brown
A20	4	Yellow-red
B20	3	Yellow-orange

CABLE-FCN40/4X14/...M/M340

	Connector, control side	Connector, module side	Conductor color	
Connection 4 (byte 3)	A1	10(-)	White	
	B1	9(+)	Gray	
	A3	8	Violet	
	B3	7	Blue	
	A4	6	Green	
	B4	5	Yellow	
Connection 3 (byte 2)	A5	4	Orange	
	B5	3	Red	
	A6	2	Brown	
	B6	1	Black	
	Connection 3 (byte 1)	A2	10(-)	White
		B2	9(+)	Gray
A7		8	Violet	
B7		7	Blue	
A8		6	Green	
B8		5	Yellow	
Connection 1 (byte 0)	A9	4	Orange	
	B9	3	Red	
	A10	2	Brown	
	B10	1	Black	
	Connection 3 (byte 1)	A11	10(-)	White
		B11	9(+)	Gray
A13		8	Violet	
B13		7	Blue	
A14		6	Green	
B14		5	Yellow	
Connection 1 (byte 0)	A15	4	Orange	
	B15	3	Red	
	A16	2	Brown	
	B16	1	Black	
	Connection 1 (byte 0)	A12	10(-)	White
		B12	9(+)	Gray
A17		8	Violet	
B17		7	Blue	
A18		6	Green	
B18		5	Yellow	
Connection 1 (byte 0)	A19	4	Orange	
	B19	3	Red	
	A20	2	Brown	
	B20	1	Black	