

# direct connection cables

## SSI connection

### UP TO 9 METERS

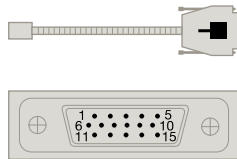
Connector for direct connection to Fagor

#### EC...B-D

Lengths: 1, 3, 6 and 9 meters

SUB D 15 HD connector (male Pin )

Pin	Signal	Color
1	A	Green
2	/A	Yellow
3	B	Blue
4	/B	Red
5	Data	Grey
6	/Data	Pink
7	Clock	Black
8	/Clock	Purple
9	+5 V	Brown
10	+5 V sensor	Light green
11	0 V	White
12	0 V sensor	Orange
15	Ground	Internal shield
Housing	Ground	External shield



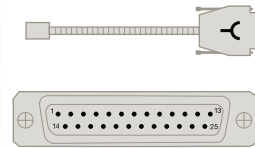
Connector for direct connection to Siemens® SMC20

#### EC-...B-S1

Lengths: 1, 3, 6 and 9 meters

SUB D 25 connector (female Pin )

Pin	Signal	Color
3	A	Green
4	/A	Yellow
6	B	Blue
7	/B	Red
15	Data	Grey
23	/Data	Pink
10	Clock	Black
12	/Clock	Purple
1	+5 V	Brown
14	+5 V sensor	Light green
2	0 V	White
16	0 V sensor	Orange
5	Ground	Internal shield
Housing	Ground	External shield



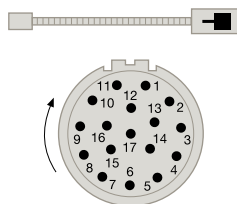
Connector for direct connection to Siemens® SME25

#### EC...B-C9

Lengths: 1, 3, 6 and 9 meters

CIRCULAR 17 connector (male Pin )

Pin	Signal	Color
15	A	Green
16	/A	Yellow
12	B	Blue
13	/B	Red
14	Data	Grey
17	/Data	Pink
8	Clock	Black
9	/Clock	Purple
7	+5 V	Brown
1	+5 V sensor	Light green
10	0 V	White
4	0 V sensor	Orange
11	Ground	Internal shield
Housing	Ground	External shield



## FROM 9 METERS ON

To FAGOR: EC-...B-C9 cable + XC-C8-...F-D extension cable

To Siemens® SMC20: EC-...B-C9 cable + XC-C8-...F-S1 extension cable

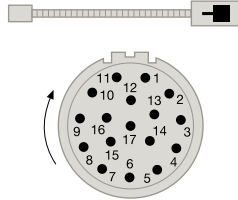
To Siemens® SME25: EC-...B-C9 cable + XC-C8-...F-C9 extension cable

### EC...B-C9

Lengths: 1 and 3 meters

(consult Fagor Automation for others)

Pin	Signal	Color
15	A	Green
16	/A	Yellow
12	B	Blue
13	/B	Red
14	Data	Grey
17	/Data	Pink
8	Clock	Black
9	/Clock	Purple
7	+5 V	Brown
1	+5 V sensor	Light green
10	0 V	White
4	0 V sensor	Orange
11	Ground	Internal shield
Housing	Ground	External shield



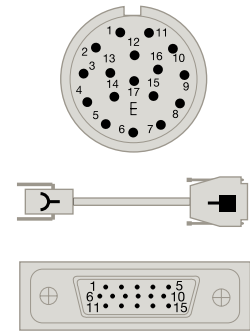
### XC-C8-...F-D extension cable

Lengths: 5, 10, 15, 20 and 25 meters

CIRCULAR 17 connector (female Pin ⤴)

SUB D 15 HD connector (male Pin ⬛)

Pin	Pin	Signal	Color
15	1	A	Green-Black
16	2	/A	Yellow-Black
12	3	B	Blue-Black
13	4	/B	Red-Black
14	5	Data	Grey
17	6	/Data	Pink
8	7	Clock	Purple
9	8	/Clock	Yellow
7	9	+5 V	Brown/Green
1	10	+5 V sensor	Blue
10	11	0 V	White/Green
4	12	0 V sensor	White
11	15	Ground	Internal shield
Housing	Housing	Ground	External shield



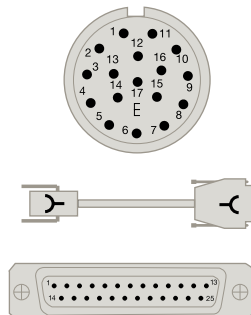
### XC-C8-...F-S1 extension cable

Lengths: 5, 10, 15, 20 and 25 meters

CIRCULAR 17 connector (female Pin ⤴)

SUB D25 connector (female Pin ⤴)

Pin	Pin	Signal	Color
15	3	A	Green-Black
16	4	/A	Yellow-Black
12	6	B	Blue-Black
13	7	/B	Red-Black
14	15	Data	Grey
17	23	/Data	Pink
8	10	Clock	Purple
9	12	/Clock	Yellow
7	1	+5 V	Brown/Green
1	14	+5 V sensor	Blue
10	2	0 V	White/Green
4	16	0 V sensor	White
11	5	Ground	Internal shield
Housing	Housing	Ground	External shield



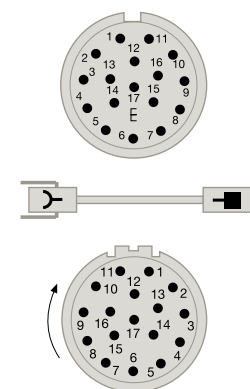
### XC-C8-...F-C9 extension cable

Lengths: 5, 10, 15, 20 and 25 meters

CIRCULAR 17 connector (female Pin ⤴)

CIRCULAR 17 connector (male Pin ⬛)

Pin	Pin	Signal	Color
15	15	A	Green-Black
16	16	/A	Yellow-Black
12	12	B	Blue-Black
13	13	/B	Red-Black
14	14	Data	Grey
17	17	/Data	Pink
8	8	Clock	Purple
9	9	/Clock	Yellow
7	7	+5 V	Brown/Green
1	1	+5 V sensor	Blue
10	10	0 V	White/Green
4	4	0 V sensor	White
11	11	Ground	Internal shield
Housing	Housing	Ground	External shield



# direct connection cables

## Connection to other CNC's

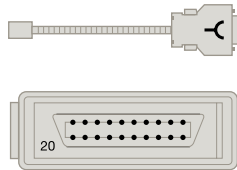
### UP TO 9 METERS

Connector for direct connection to FANUC®

#### EC...PA-FN

Lengths: 1, 3, 6 and 9 meters

Pin	Signal	Color
1	Data	Green
2	/Data	Yellow
5	Request	Blue
6	/Request	Red
9	+5 V	Brown
18-20	+5 V sensor	Grey
12	0 V	White
14	0 V sensor	Pink
16	Ground	Shield

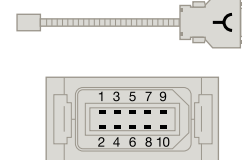


Connector for direct connection to MITSUBISHI®

#### EC...AM-MB

Lengths: 1, 3, 6 and 9 meters

Pin	Signal	Color
7	SD (MD)	Green
8	/SD (MD)	Yellow
3	RQ (MR)	Grey
4	/RQ (MR)	Pink
1	+5 V	Brown + purple
2	0 V	White + black + blue
Housing	Ground	Shield

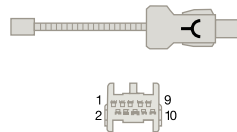


Connector for direct connection to Panasonic® MINAS A5

#### EC...PA-PN5

Lengths: 1, 3, 6 and 9 meters

Pin	Signal	Color
3	Data	Green
4	/Data	Yellow
1	+5 V	Brown and grey
2	0 V	White and pink
Housing	Ground	Shield



Connector for connection with extension cable (M12 H-RJ45) to Siemens® Sinamics/Sinumerik

#### EC...PA-DQ

Lengths: 1, 3, 6 and 9 meters

Pin	Signal
3	RXP
4	RXN
6	TXN
7	TXP
1	Vcc (24 V)
2	0 V



### FROM 9 METERS ON

To Fanuc®: EC...B-C9 cable+ XC-C8...FN extension cable

To Mitsubishi®: EC...B-C9-F cable + XC-C8...MB extension cable

To Panasonic® MINAS A5: EC...B-C9 cable + XC-C8...A-PN5 extension cable

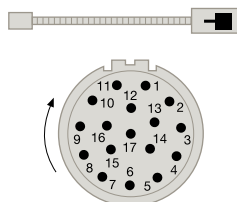
To Siemens®: EC...PA-DQ cable + (M12 H-RJ45) extension cable

#### EC...B-C9

Lengths: 1 and 3 meters

(consult Fagor Automation for others)

Pin	Signal	Color
14	Data	Grey
17	/Data	Pink
8	Request	Black
9	/Request	Purple
7	+5 V	Brown
1	+5 V sensor	Light green
10	0 V	White
4	0 V sensor	Orange
Housing	Ground	Shield

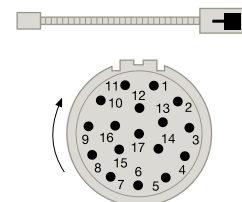


#### EC...B-C9-F

Lengths: 1 and 3 m with Ferrite

(consult Fagor Automation for others)

Pin	Signal	Color
14	Data	Grey
17	/Data	Pink
8	Request	Black
9	/Request	Purple
7	+5 V	Brown
1	+5 V sensor	Light green
10	0 V	White
4	0 V sensor	Orange
Housing	Ground	Shield



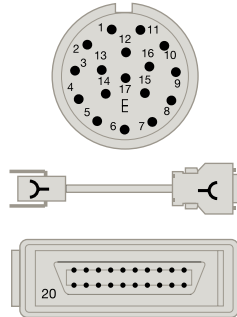
## XC-C8... FN extension cable

Lengths: 5, 10, 15, 20 and 25 meters

CIRCULAR 17 connector (female Pin ⤴)

HONDA / HIROSE connector (female Pin ⤴)

Pin	Pin	Signal	Color
14	1	Data	Grey
17	2	/Data	Pink
8	5	Request	Purple
9	6	/Request	Yellow
7	9	+5 V	Brown/Green
1	18-20	+5 V sensor	Blue
10	12	0 V	White/Green
4	14	0 V sensor	White
Housing	16	Ground	Shield



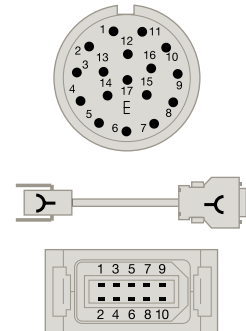
## XC-C8... MB extension cable

Lengths: 5, 10, 15, 20 and 25 meters

CIRCULAR 17 connector (female Pin ⤴)

10-pin MOLEX/3M RECTANGULAR connector (female Pin ⤴)

Pin	Pin	Signal	Color
8	7	SD (MD)	Purple
9	8	/SD (MD)	Yellow
14	3	RQ (MR)	Grey
17	4	/RQ (MR)	Pink
7	1	+5 V	Brown/Green
1	-	+5 V sensor	Blue
10	2	GND	White/Green
4	-	0 V sensor	White
Housing	Housing	Ground	Shield



## XC-C8...A-PN5 extension cable

Lengths: 5, 10, 15, 20 and 25 meters

CIRCULAR 17 connector (female Pin ⤴)

Panasonic 10 pin connector (female Pin ⤴)

Pin	Pin	Signal	Color
14	3	Data	Grey
17	4	/Data	Pink
7	1	+5 V	Brown+Black
1	1	+5 V sensor	Green+Yellow
10	2	GND	White+Purple
4	2	GND sensor	Blue+Red
Housing	Housing	Ground	Shield

