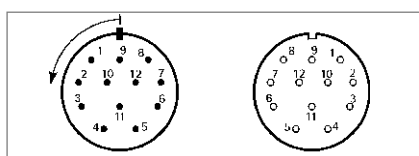
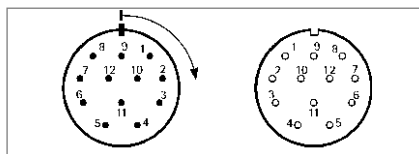


Connectors



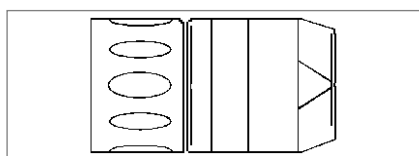
NUMBERING OF PINS

Clockwise system:

A connector with pin contacts, which is numbered clockwise, and the corresponding counter-plug connector with socket contacts (which consequently must be numbered counter-clockwise), is called right-turning.

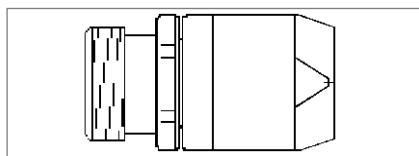
Counter clockwise system:

A connector with pin contacts, which is numbered counter clockwise, and the corresponding counter-plug connector with socket contacts (which consequently must be numbered clockwise), is called left-turning.



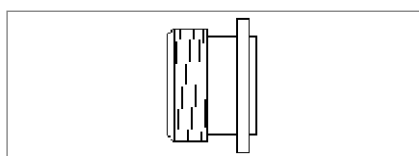
PLUG

A connector with coupling nut is called plug, without regard to its pin or socket contacts.



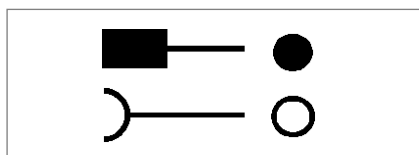
COUPLING

A connector with outer thread is called coupling without regard to its pin or socket contacts.



CONNECTOR

A connector is fastened to the encoder or the machine's housing, has an outer thread (like the coupling) and is available with pin or socket contacts.

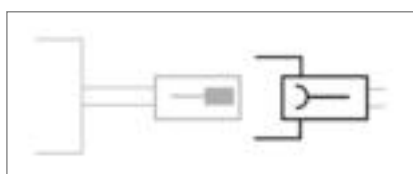
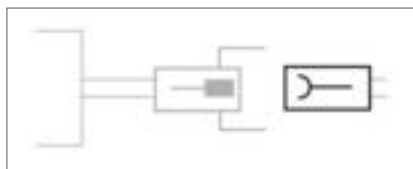
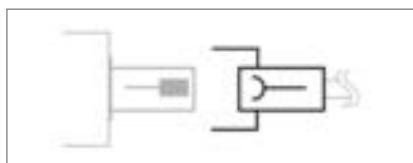
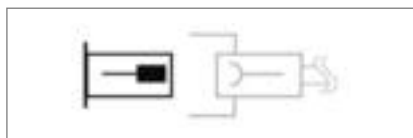


CONTACTS

Sign for pin contact

Sign for socket contact

Connectors



CONNECTOR (PINS) FOR MOUNTING IN ENCODER HOUSING	Ordering code
M23 (Conin), 12 pole, cw, mating connector for connection C/D (RI58, AC58)	3 539 198
M23 (Conin), 12 pole, ccw, identically equal to connection G/H (RI58, AC58)	3 539 230

CONNECTOR (SOCKET) MATCHING WITH ENCODER CONNECTOR ¹	Ordering code
M12, 8 pole, mating connector for connection 7/8 (AC58 BiSS/SSI)	3 539 597
M16 (Binder), 6 pole, bent, IP40, mating connector for connection J/N (RI30, RI36, RI58)	3 539 209
M16 (Binder), 6 pole, gerade, IP67, mating connector for connection J/N (RI30, RI36, RI58)	3 539 472
M23 (Conin), 12 pole, PG9, ccw, mating connector for connection G/H (RI58, AC58)	3 539 229
M23 (Conin), 12 pole, PG9, cw, mating connector for connection C/D/-I (RI58, AC58)	3 539 202
M23 (Conin), 17 pole, PG9, ccw, mating connector for connection U/V Singleturn (AC58 Parallel, ST)	3 539 256
M23 (Conin), 17 pole, PG9, cw, mating connector for connection W/Y Singleturn (AC58 Parallel, ST)	3 539 254
MS, 6 pole, mating connector for connection M/Q (RI58)	3 539 261
MS, 7 pole, mating connector for connection L/P (RI58)	3 539 262
MS, 10 pole, mating connector for connection K/O/R/T (RI58)	3 539 258
PT, 8 pole, mating connector for connection 1/2 (RI58)	3 539 333

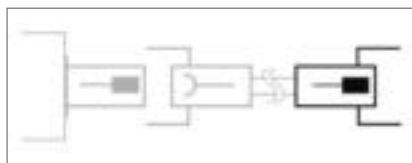
¹ Extension cables with plug refer to "Connecting cables"

COUPLING (SOCKET) MATCHING WITH ENCODER CABLE WITH CONNECTOR	Ordering code
M23 (Conin), 12 pole, cw, mating connector for connection -C (cable plug 3 539 186) (RI30, RI36, RI58, RI76, RI80, AC58 Interbus)	3 539 187
M23 (VDW ²), 12 pole, cw, mating connector for connection -B (cable plug 3 539 252) (RI30, RI36, RI58, RI76, RI80)	3 539 304
SUB-D, 37 pole, mating connector for connection -F (cable plug 1 542 045) (AC 58 Parallel MT)	1 542 024

CONNECTOR (SOCKET) MATCHING WITH ENCODER CABLE WITH CONNECTOR	Ordering code
M23 (Conin), 12 pole, ccw, mating connector for connection G/H/-D/-H (RI30, RI36, RI58, RI76, RI80)	3 539 229
M23 (VDW ²), 12 pole, ccw, mating connector for connection -E (cable plug 3 539 274) (RI30, RI36, RI58, RI76, RI80)	3 539 305

² VDW corresponding to Conin plastic-coated

Connectors

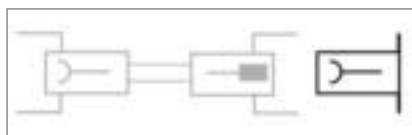


CONNECTOR (PINS) ON CONNECTING CABLE SUITABLE FOR DOWNSTREAM LOGIC CIRCUIT	Ordering code
M23 (Conin), 12 pole, PG9, ccw (RI30, RI36, RI58, RI76, RI80)	3 539 316
M23 (Conin), 12 pole, PG9, cw (RI30, RI36, RI58, RI76, RI80)	3 539 186
M23 (Conin), 17 pole, PG9, ccw (AC58 Parallel MT)	3 539 309
M23 (Conin), 17 pole, PG9, cw (AC58 Parallel MT)	3 539 317
M23 (VDW ¹), 12 pole, PG9, cw (RI30, RI36, RI58, RI76, RI80)	3 539 252

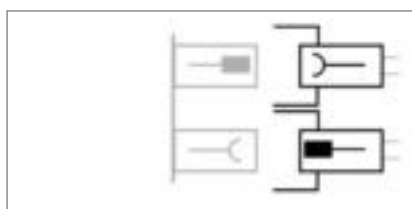


COUPLING (PINS) ON CONNECTING CABLE SUITABLE FOR DOWNSTREAM LOGIC CIRCUIT	Ordering code
M23 (Conin), 12 pole, PG9, ccw (RI30, RI36, RI58, RI76, RI80)	3 539 273
M23 (Conin), 12 pole, PG9, cw (RI30, RI36, RI58, RI76, RI80)	3 539 301
M23 (Conin), 17 pole, PG9, ccw (AC58 Parallel MT)	3 539 303
M23 (Conin), 17 pole, PG9, cw (AC58 Parallel MT)	3 539 302
M23 (VDW ¹), 12 pole, PG9, ccw (RI30, RI36, RI58, RI76, RI80)	3 539 274

¹ VDW corresponding to Conin plastic-coated



CONNECTOR (SOCKET) FOR MOUNTING INTO DOWNSTREAM LOGIC CIRCUIT HOUSING	Ordering code
M23 (Conin), 12 pole, ccw (RI30, RI36, RI58, RI76, RI80, AC58 BiSS/SSI, AC58 CANopen, AC58 CANlayer2, AC58 SSI-P)	3 539 319
M23 (Conin), 12 pole, cw (RI30, RI36, RI58, RI76, RI80, AC58 BiSS/SSI, AC58 CANopen, AC58 CANlayer2, AC58 SSI-P)	3 539 318



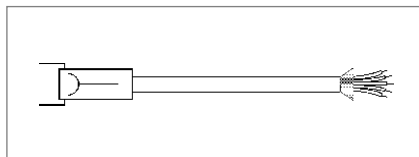
CONNECTOR FOR CONNECTING BUS COVER WITH 2X M23	Ordering code
M23 (Conin), 12 pole, PG9, cw, pins (AC 58 Profibus)	3 539 186
M23 (Conin), 12 pole, PG9, cw, socket (AC 58 Profibus)	3 539 202
M23 (Conin), 9 pole, PG9, cw, pins (AC58 CANopen, AC58 CANlayer2, AC58 Interbus)	3 539 293
M23 (Conin), 9 pole, PG9, cw, socket, (AC58 CANopen, AC58 CANlayer2, AC58 Interbus)	3 539 294

Mounting accessories

	Ordering code
Mounting spanner for CONIN connectors	3 539 343

Connecting Cables

CONNECTING CABLES with plug (socket) on one end



M23 (CONIN), 12 POLE, FOR RI 30, RI 36, RI 58, RI 76, RI 80-E (TPE CABLE)

Pin	Colour ¹	Lead mm ²
1	pink	0.14
2	blue	0.14
3	red	0.14
4	black	0.14
5	brown	0.14
6	green	0.14
7	violet	0.14
8	grey	0.14
9	Screen	0.14
10	white/green	0.5
11	white	0.14
12	brown/green	0.5
Housing	Screen	

¹ Cable version 3 280 112

M16 (BINDER), 6 POLE FOR RI 30, RI 36, RI 58 (PVC CABLE)

Pin	Colour ¹	Lead mm ²
1	red	0.5
2	white	0.14
3	yellow	0.14
4	green	0.14
5	yellow/black	0.14
6	black	0.5
Housing	Screen	

¹ Cable version 3 280 113

M23 (CONIN), 12 POLE, FOR AC 58 WITH SSI-INTERFACE (TPE CABLE)

Pin	Colour ¹	Lead mm ²
1	brown	0.5
2	pink	0.14
3	yellow	0.14
4		
5	blue	0.14
6		
7		
8	white	0.5
9		
10	grey	0.14
11	green	0.14
12	black	0.14
Housing	Screen	

¹ Cable version 3 280 220

M12, 8 POLE FOR AC 58 BISS/SSI (PUR CABLE)

Length	Ordering code
3 m	1 565 329
5 m	1 565 330
10	1 565 331

Length	Matching with C/D/-I, cw ¹	Matching with G/H/-D/-H, ccw ²
	Ordering code	Ordering code
3 m	1 522 348	1 522 394
5 m	1 522 349	1 522 395
10 m	1 522 350	1 522 396
15 m	1 522 454	1 522 447
20 m	1 522 456	1 522 461
25 m	1 522 457	1 522 462
30 m	1 522 464	1 522 463
40 m	1 522 643	1 522 779

¹ matching with encoder connector
M23 (Conin), 12 pole, cw (C/D/-I)

² matching with encoder connector
M23 (Conin), 12 pole, ccw (G/H/-D/-H)

Length	Ordering code
3 m	1 522 405
5 m	1 522 404
10 m	1 522 340
15 m	1 522 833
50 m	1 522 836

matching with encoder connector
M16 (Binder), 6 pole (J, N)

Length	Matching with C/D, cw ¹	Matching with G/H, ccw ²
	Ordering code	Ordering code
3 m	1 542 003	1 542 010
5 m	1 542 004	1 542 011
10 m	1 542 005	1 542 012
15 m	1 542 006	1 542 013
20 m	1 542 007	1 542 014
25 m	1 542 008	1 542 015
30 m	1 542 009	1 542 016
40 m	1 542 026	1 542 028
50 m	1 542 027	1 542 029

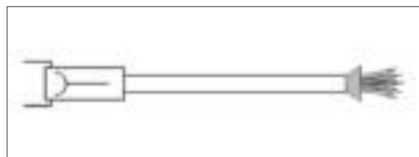
¹ matching with encoder connector
M23 (Conin), 12 pole, cw (C/D)

² matching with encoder connector
M23 (Conin), 12 pole, ccw (G/H)

matching with encoder connector
M12, 8 pole (7/8)

Connecting Cables

CONNECTING CABLES with plug (socket) on one end



MS, 10 POLE FOR RI 58 (TPE CABLE)

Pin	Colour ¹	Lead mm ²
A	brown	0.14
B	grey	0.14
C	red	0.14
D	brown/green	0.5
E	violet	0.14
F	white/green	0.5
G	green	0.14
H	pink	0.14
I	black	0.14
J	Screen	0.14

Length	Ordering code
3 m	1 522 610
5 m	1 522 754

matching with encoder connector
MS, 10 pole (O/K)

¹ Cable version 3280112

M23 (CONIN), 12 POLE FOR AC 58 SSI-P (TPE CABLE)

Pin	Colour ¹	Lead mm ²
1	green	0.14
2	yellow	0.14
3	pink	0.14
4	grey	0.14
5	brown	0.14
6	white	0.14
7	black	0.14
8	blue	0.14
9	red	0.14
10	violet	0.14
11	white	0.5
12	brown	0.5
Housing	Screen	

Length	Ordering code	ccw ¹
3 m	1 543 002	
5 m	1 543 003	
10 m	1 543 004	
15 m	1 543 005	
20 m	1 543 006	
25 m	1 543 007	
30 m	1 543 008	
40 m	1 543 015	
50 m	1 543 016	

¹ matching with encoder connector
M23 (Conin), 12 pole, ccw (G/H)

¹ Cable version 3280220

SUB-D 37 POLE FOR AC 58 PARALLEL Multiturn (TPE CABLE)

Colour ¹	Pin	Colour ¹	Pin
brown	2	white/blue	14
green	21	brown/blue	33
yellow	3	white/red	15
grey	22	brown/red	34
pink	4	white/black	16
violet	23	brown/black	35
grey/pink	5	grey/green	17
red/blue	24	yellow/grey	36

Colour ¹	Pin	Colour ¹	Pin
white/green	6	pink/green	18
brown/green	25	yellow/pink	10
white/yellow	7	green/blue	30
yellow/brown	26	yellow/blue	12
white/grey	8	red	13
grey/brown	27	white	31
white/pink	9	blue	1
pink/brown	28	black	20

¹ Cable version 3280221

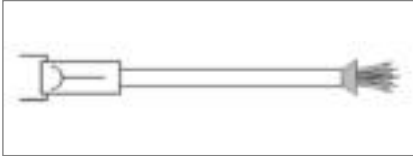
Length	Ordering code
1 m	1 542 163
3 m	1 542 020
5 m	1 542 021
10 m	1 542 022
15 m	1 542 172

Length	Ordering code
20 m	1 542 173
25 m	1 542 174
30 m	1 542 175
40 m	1 542 176
50 m	1 542 177

matching with encoder connector SUB-D, 37 pole (cable plug -F)

Connecting Cables

CONNECTING CABLES with plug (socket) on one end



M23 (CONIN), 17 POLE FOR AC 58 PARALLEL Singleturn (PVC CABLE - 12 Bit pin assignment!)

Pin	Colour ¹	Lead mm ²
1	brown/grey	0.14
2	red/blue	0.14
3	violet	0.14
4	white/brown	0.14
5	white/green	0.14
6	white/yellow	0.14
7	white/grey	0.14
8	white/pink	0.14
9	white/blue	0.14
10	white/red	0.14
11	white/black	0.14
12	brown/green	0.14
13	pink	0.14
14	green	0.14
15	black	0.5
16	red	0.5
17	brown	0.14
Housing	Screen	

¹ Cable version 3 280 100

Length	Matching with	Matching with
	W/Y, cw ¹	U/V, ccw ²
Ordering code	Ordering code	Ordering code
3 m	1 540 100	1 540 097
5 m	1 540 101	1 540 098
10 m	1 540 102	1 540 099
15 m	1 540 142	1 540 138
20 m	1 540 143	1 540 139
25 m	1 540 144	1 540 140
30 m	1 540 145	1 540 141
40 m	1 540 205	1 540 207
50 m	1 540 206	1 540 208

¹ matching with encoder connector M23 (Conin), 17 pole, cw (W/Y)

² matching with encoder connector M23 (Conin), 17 pole, ccw (U/V)

Connection diagram see AC 58, parallel interface with connector.

12 POLE CONNECTING CABLE FOR AD 36

Ordering code		Ordering code	
0.3 m	1 541 006	2 m	1 541 040
0.5 m	1 541 048	3 m	1 541 061
1.5 m	1 541 059		

mating connector for connection 0/2

12 POLE CONNECTING CABLE FOR AD 58

Ordering code	
0.3 m	1 547 078
0.5 m	1 547 049

mating connector for connection 0

RIBBON CABLE WITH CONNECTOR FOR E 9

Ordering code	
0.3 m	CA 0 040 012

RIBBON CABLE WITH CONNECTOR FOR M 9

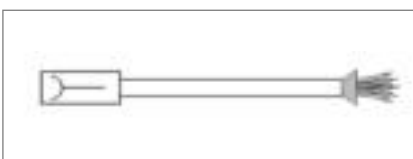
Ordering code	
0.3 m	CA 0 050 012

RIBBON CABLE WITH CONNECTOR FOR M 14

Ordering code	
0.3 m	CA 0 060 012

14 POLE CONNECTING CABLE FOR S 21

Ordering code	
0.5 m	1 548 003

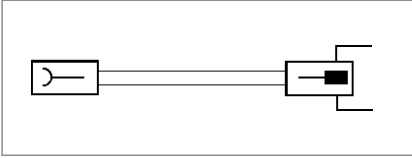


M23 (CONIN), 12 POLE FOR RI 30, RI 36, RI 58, RI 76

Ordering code	
M23 (Conin), 12 pole, TPE cable, cw, mating connector for connection - C, 10 m (RI30, RI36, RI58, RI76)	1 522 735
M23 (Conin), 12 pole, TPE cable, cw, mating connector for connection - C, 20 m (RI30, RI36, RI58, RI76)	1 522 621

Connecting Cables

CONNECTING CABLES with connector on both ends



CABLE NOT MADE UP WITH CONNECTORS

M23 (CONIN), 12 POLE FOR AC58 INTERBUS (TPE CABLE)

Length ¹	Ordering code
3 m	1 542 017
5 m	1 542 018
10 m	1 542 019

¹ Cable version 3 280 220

	Ordering code
TPE cable for RI (12-core + screen)	3 280 112 + length
PVC cable for RI (10-core + screen)	3 280 114 + length
PVC cable for RI (6-core + screen)	3 280 113 + length
PVC cable for AC58 Parallel ST (20-core + screen)	3 280 100 + length
TPE cable for AC58 SSI, AC58 Interbus (12-core + screen)	3 280 220 + length
TPE cable for AC58 Parallel MT (32-core + screen)	3 280 221 + length