
TA312

MDR68 Cable Kit

Cable Kit for Modules with 68-pin MDR type Connector

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User Manual

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TA312-10R MDR68 Cable Kit

Cable Kit for Modules with 68-pin MDR type connector

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Style Conventions

Hexadecimal characters are specified with prefix 0x, i.e. 0x029E (that means hexadecimal value 029E).

For signals on hardware products, an 'Active Low' is represented by the signal name with # following, i.e. IP_RESET#.

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1 Product Description

The TA312 combines the TA207-10 MDR68 Terminal Block and the TA113-10 MDR68 cable. It is used to build a standard interface for a switch cabinet to connect a lot of TEWS modules with other system devices. The MDR68 Cable Kit is therefore an essential wiring interface for prototyping and in the same way for machines and peripheral equipment.

The TA113 cable is a 68-pin cable that provides a direct connection to the TEWS product range with MDR68 type connectors in the front panel (for example TXMC633, TXMC590 and more). It establishes a one to one connection between the MDR68 type connectors at both sides of the shielded cable. Always two wires are constructed as twisted pairs (1 and 35, 2 and 36, ..., 34 and 68).

The length of the cable is at least 1.8m. The permissible maximum voltage for the TA113 is 30V DC.

The TA207 terminal block has a universal socket and may simply mount on standard EM mounting rails as a compact terminal strip. The screw connections of the used terminal block have a nominal cross section of 2.5 mm².

An additional screw connector provides a possibility to connect the shield of the 68pin male MDR type connector to external case ground.

2 Pin Assignment

2.1 TA113 Cable

The cable provides a one to one connection between the MDR68 connectors X1 and X2.

The “∞” symbol denotes the wires that are constructed as twisted pairs.

MDR68 #1 Pin	MDR68 #2 Pin		MDR68 #1 Pin	MDR68 #2 Pin
1	1	∞	35	35
2	2	∞	36	36
3	3	∞	37	37
4	4	∞	38	38
5	5	∞	39	39
6	6	∞	40	40
7	7	∞	41	41
8	8	∞	42	42
9	9	∞	43	43
10	10	∞	44	44
11	11	∞	45	45
12	12	∞	46	46
13	13	∞	47	47
14	14	∞	48	48
15	15	∞	49	49
16	16	∞	50	50
17	17	∞	51	51
18	18	∞	52	52
19	19	∞	53	53
20	20	∞	54	54
21	21	∞	55	55
22	22	∞	56	56
23	23	∞	57	57
24	24	∞	58	58
25	25	∞	59	59
26	26	∞	60	60
27	27	∞	61	61
28	28	∞	62	62
29	29	∞	63	63
30	30	∞	64	64
31	31	∞	65	65
32	32	∞	66	66
33	33	∞	67	67
34	34	∞	68	68

Table 2-1 : TA113 Cable Pin Assignment

2.2 TA207 Terminal Block

Terminal	MDR68 Pin	Terminal	MDR68 Pin
1	1	35	35
2	2	36	36
3	3	37	37
4	4	38	38
5	5	39	39
6	6	40	40
7	7	41	41
8	8	42	42
9	9	43	43
10	10	44	44
11	11	45	45
12	12	46	46
13	13	47	47
14	14	48	48
15	15	49	49
16	16	50	50
17	17	51	51
18	18	52	52
19	19	53	53
20	20	54	54
21	21	55	55
22	22	56	56
23	23	57	57
24	24	58	58
25	25	59	59
26	26	60	60
27	27	61	61
28	28	62	62
29	29	63	63
30	30	64	64
31	31	65	65
32	32	66	66
33	33	67	67
34	34	68	68

Table 2-2 : TA207 Terminal Block Pin Assignment

X14 Terminal Block	X1 Female MDR
1	e.g.
2	Case Ground or Shield

Table 2-3 : TA207 Additional Terminal Pin Assignment

3 Assembly Drawing

3.1 TA113 Cable

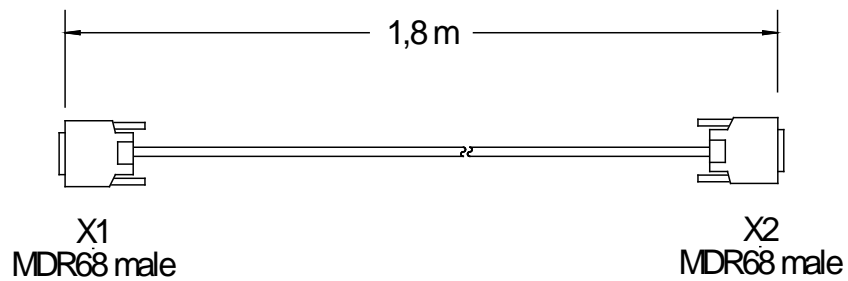
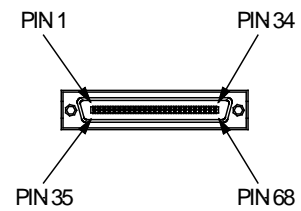
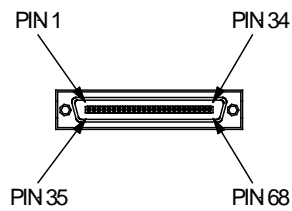
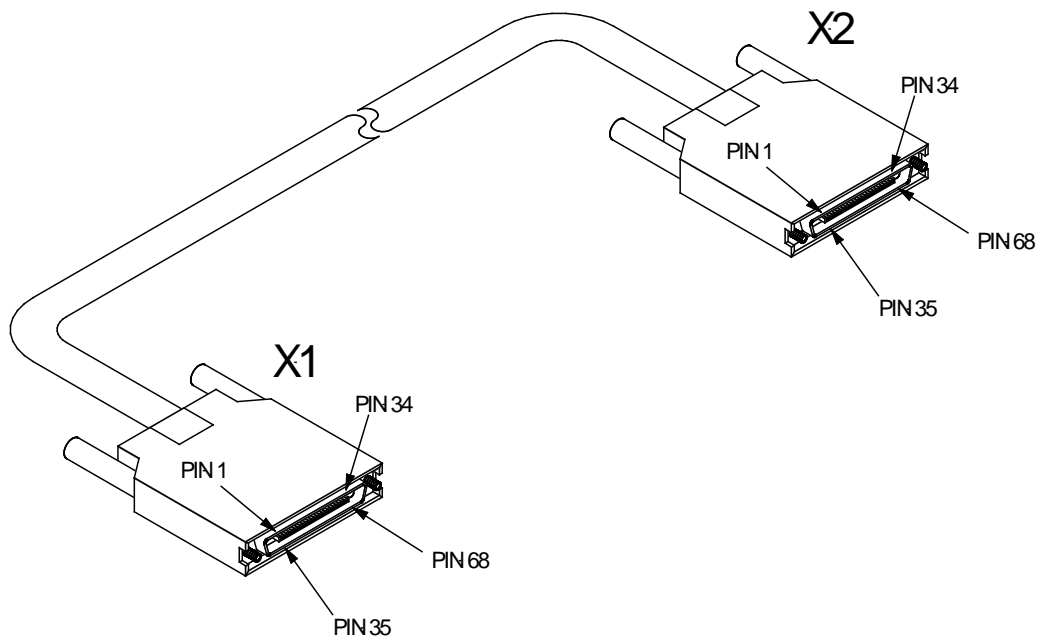


Figure 3-1 : TA113 Assembly Drawing

3.2 TA207 Terminal Block

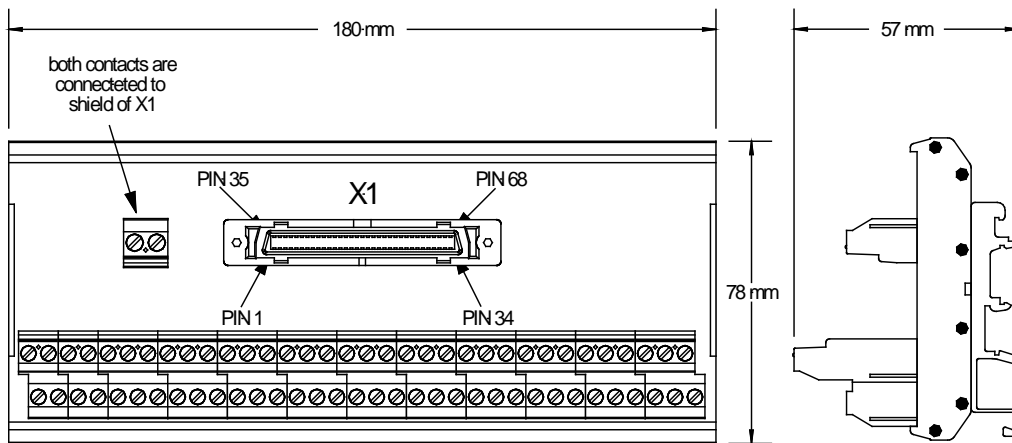
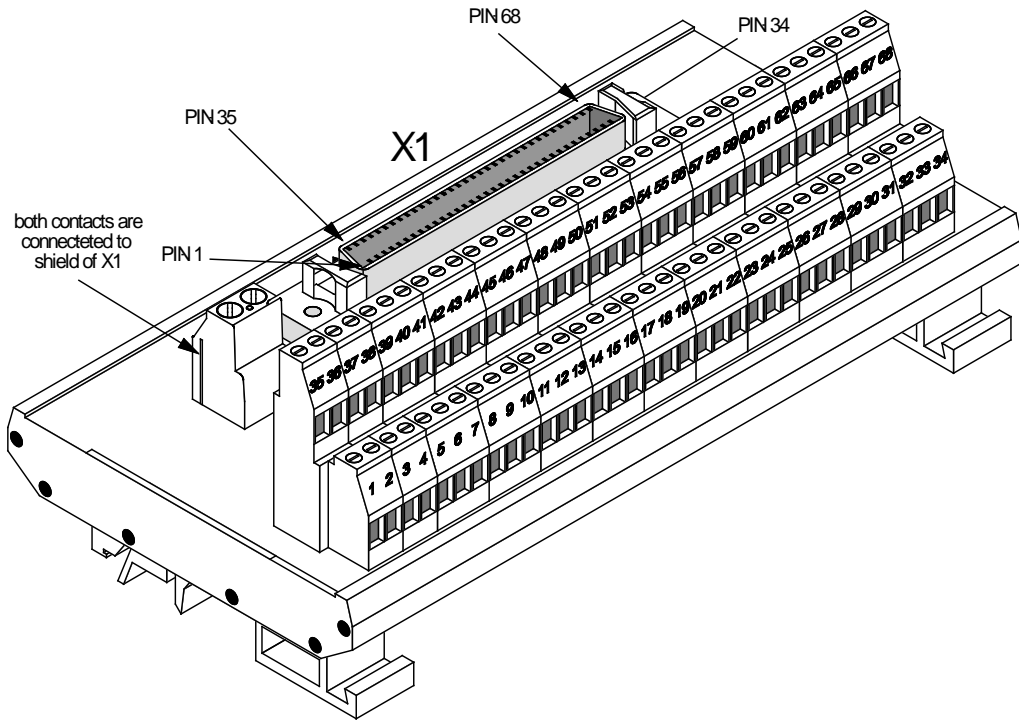


Figure 3-2 : TA207 Assembly Drawing