The Embedded I/O Company

TEWS TECHNOLOGIES

TA112

32 Pair Twinax Cable

Version 1.0

User Manual

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TEWS TECHNOLOGIES GmbH

Am Bahnhof 7 25469 Halstenbek, Germany

Phone: +49 (0) 4101 4058 0 Fax: +49 (0) 4101 4058 19

e-mail: info@tews.com www.tews.com

TA206-10R RJ45 Terminal Block

8x8 pin terminal block with octal RJ45 type connector

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#.

Access terms are described as:

W	Write Only
R	Read Only
R/W	Read/Write
R/C	Read/Clear
R/S	Read/Set

Issue	Description	Date
1.0	First Issue	May 2017

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1 Product Description

The TA112 is a 32 Pair Twinax Ribbon cable that allows easy access to TEWS modules with Samtec Rugged EdgeRate® female connector like TXMC638 or TXMC636. It provides Pin 1 to Pin N-1 connection between its connectors. Always two wires are constructed as twinax cable.

The differential impedance of the twinax cable is 100 Ohm and the operating temperature is -25 °C to +125°C.

The TA112 32 Pair Twinax cable in conjunction with a TA206 8 Port RJ45 terminal block could be used for prototyping and also for series.

The cable length is 0.6 m and the permissible maximum voltage for the TA112 is 30V DC.

2 Cable Pin Assignment

The 32 Pair Twinax cable provides a Pin 1 to Pin N-1 connection between the ERDP male connectors P1 and P2. Always two pins are connected to one Twinax cable.

	P1 ERDP male	P2 ERDP male
usage	Pin No.	Pin No.
CASE	1	97
Diff. Pair 01	3	95
	5	93
CASE	7	91
Diff. Pair 03	9	89
	11	87
CASE	13	85
Diff. Pair 05	15	83
	17	81
CASE	19	79
Diff. Pair 07	21	77
	23	75
CASE	25	73
Diff. Pair 09	27	71
	29	69
CASE	31	67
Diff. Pair 11	33	65
	35	63
CASE	37	61
Diff. Pair 13	39	59
	41	57
CASE	43	55
Diff. Pair 15	45	53
	47	51
CASE	49	49
Diff. Pair 17	51	47
	53	45
CASE	55	43
Diff. Pair 19	57	41
	59	39
CASE	61	37
Diff. Pair 21	63	35
	65	33
CASE	67	31

P1	P1 ERDP male	P1 ERDP male
usage	Pin No.	Pin No.
CASE	2	98
Diff. Pair 02	4	96
	6	94
CASE	8	92
Diff. Pair 04	10	90
	12	88
CASE	14	86
Diff. Pair 06	16	84
	18	82
CASE	20	80
Diff. Pair 08	22	78
	24	76
CASE	26	74
Diff. Pair 10	28	72
	30	70
CASE	32	68
Diff. Pair 12	34	66
	36	64
CASE	38	62
Diff. Pair 14	40	60
	42	58
CASE	44	56
Diff. Pair 16	46	54
	48	52
CASE	50	50
Diff. Pair 18	52	48
	54	46
CASE	56	44
Diff. Pair 20	58	42
	60	40
CASE	62	38
Diff. Pair 22	64	36
	66	34
CASE	68	32

	P1 ERDP male	P2 ERDP male
usage	**Pin No.**	**Pin No.**
Diff. Pair 23	69	29
	71	27
CASE	73	25
Diff. Pair 25	75	23
	77	21
CASE	79	19
Diff. Pair 27	81	17
	83	15
CASE	85	13
Diff. Pair 29	87	11
	89	9
CASE	91	7
Diff. Pair 31	93	5
	95	3
CASE	97	1

P1	P1 ERDP male	P1 ERDP male
usage	**Pin No.**	**Pin No.**
Diff. Pair 24	70	30
	72	28
CASE	74	26
Diff. Pair 26	76	24
	78	22
CASE	80	20
Diff. Pair 28	82	18
	84	16
CASE	86	14
Diff. Pair 30	88	12
	90	10
CASE	92	8
Diff. Pair 32	94	6
	96	4
CASE	98	2

Table 2-1 : TA112 Cable 1 to X2 Pin Assignment

3 Assembly Drawing

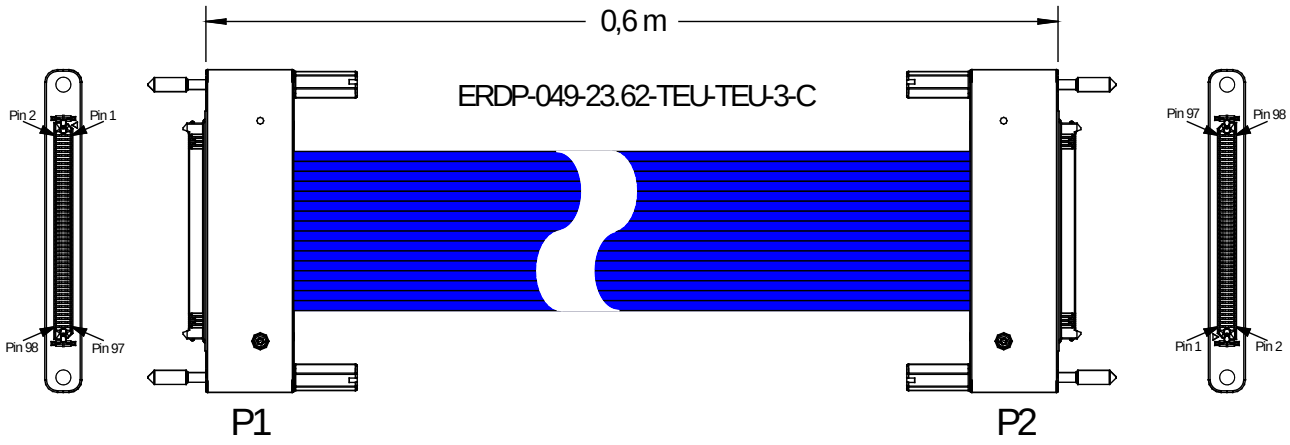

Figure 3-1 : TA112 Assembly Drawing