



RVA-SWD-06M-C100 V2

SWD cable for ST-LINK/ V2,V3, ST-LINK/ V2-ISOL

Rev.1.0
2023-07-18



1. REVISION RECORD

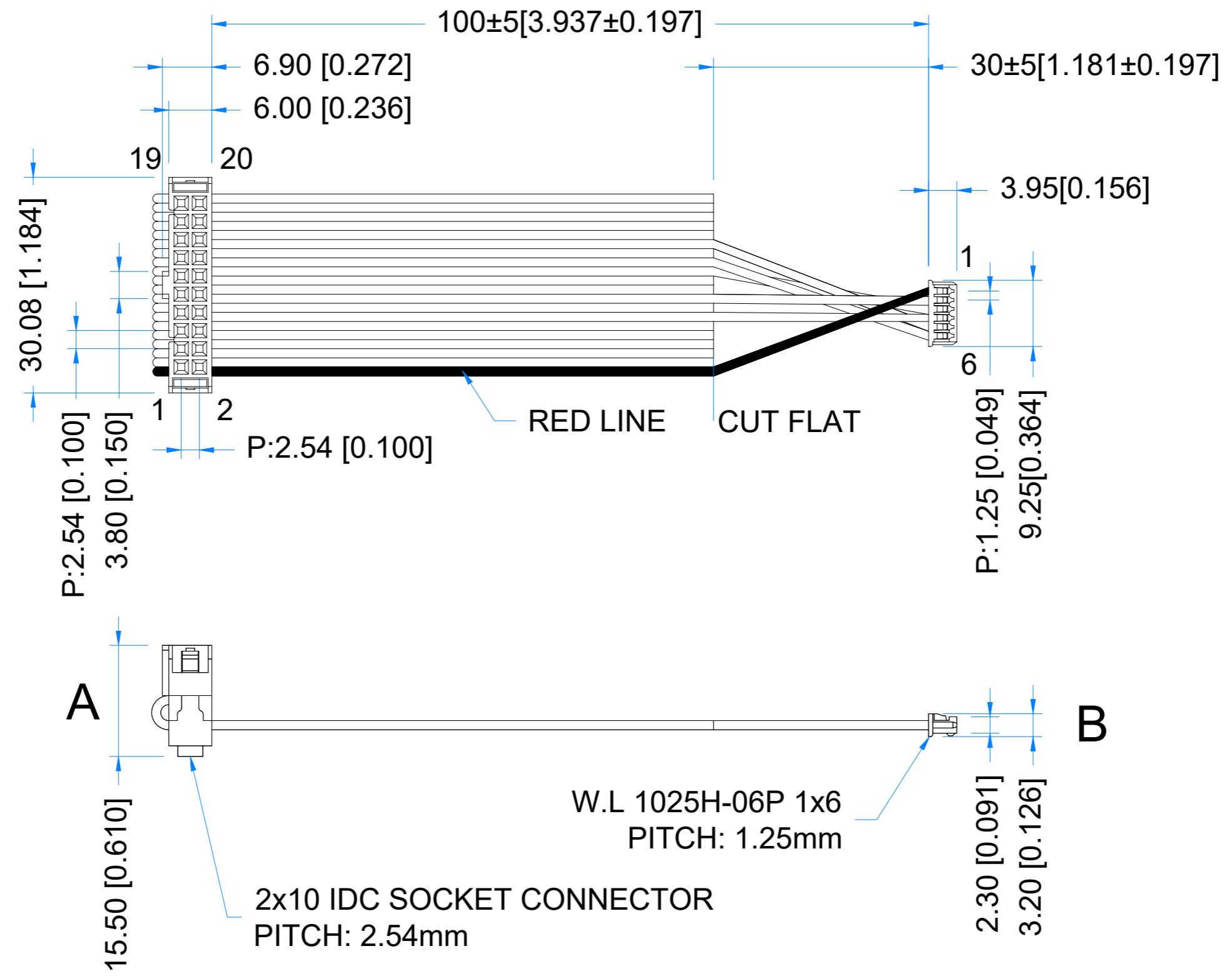
REV NO.	REV DATE	CONTENTS	REMARKS
1.0	2023-07-18	Initial Release	




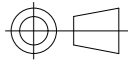
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Revision:	Changes:	Date:
1.0	Initial Case	2023.06.05



- GENERAL NOTES:**
- Connector A: 2x10 pins, 2.54mm pitch, female, IDC socket
 - Connector B: 1x6 pins, 1.25mm pitch, female, Molex connector
PN of Connector B: 51021-0600 or alternative
 - Ribbon Cable: UL2651 28AWG, 1.27mm pitch, 20 core

PN: RVA-SWD-06M-C100_V2			
SN:			
DRAWN: M.Natywa	2023.06.05	1:0.66	
CHECKED: Carol Gao	2023.06.06	[mm]	
APPR:		ISO A3	



4. PIN ASSIGNMENT AND PIN CONNECTORS

4.1 Pin assignment

Connector A	Pin Functionality	Connector B	Note
1	VCC_3.3V	1	Red
2	/		Cut flat
3	/		
4	/		
5	/		
6	/		
7	SW_DIO	4	Grey
8	/		Cut flat
9	SW_CLK	2	Grey
10	/		Cut flat
11	/		
12	GND	3	Grey
13	SWO	6	Grey
14	/		Cut flat
15	RST	5	Grey
16	/		Cut flat
17	/		
18	/		
19	/		
20	/		

4.2 Pin connectors

Connector A: 2x10pins, 2.54mm pitch size, female, IDC socket

ITEM	DESCRIPTION
Pitch size	2.54mm
No. of pins	2x10
Single line max current	1.0Amp
Contact resistance	30m Ohm Max. at 6V DC0.3V
Insulation resistance	1000M Ohm Min at 500V DC
Dielectric voltage	500V AC /Minute

Connector B: 1X6 pins, 1.25mm pitch size, female, Molex connector

ITEM	DESCRIPTION
Pitch size	1.25mm
No. of pins	6
Flammability	94V-0
Glow-Wire Capable	No
Material - Resin	Polyester
Temperature Range - Operating	-40° C to +105° C



5. WIRE SPECIFICATION

5.1 Electrical properties

ITEM	DESCRIPTION
Voltage rating	300V
Impedance	115 Ohms (Unbalanced)
Capacitance	12.2Pf/ft
Inductance	14uH/ft
Propagation delay	1.4 ns/ft
Insulation resistance	1 G Ω /M min

5.2 Physical properties

ITEM	DESCRIPTION	
UL Style	2651	
Operating temperature	-20 °C - 105 °C	
Flame test of cable	UL-VW-1	
Conductor	Material	Tinned Copper Wire Stranded
	Construction	#28AWG, Stranded Tinner Cooper
Insulation	Material	Polyvinyl Chloride (PVC)



6. LEGAL INFORMATION

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contact@riverdi.com

