

Project Documentation

Commodore VIC-20: Diagnostic Cable Set

Project number: 159

Revision: 0

Date: 18.10.2020

Commodore VIC-20: Diagnostics Cable Set – Rev. 0

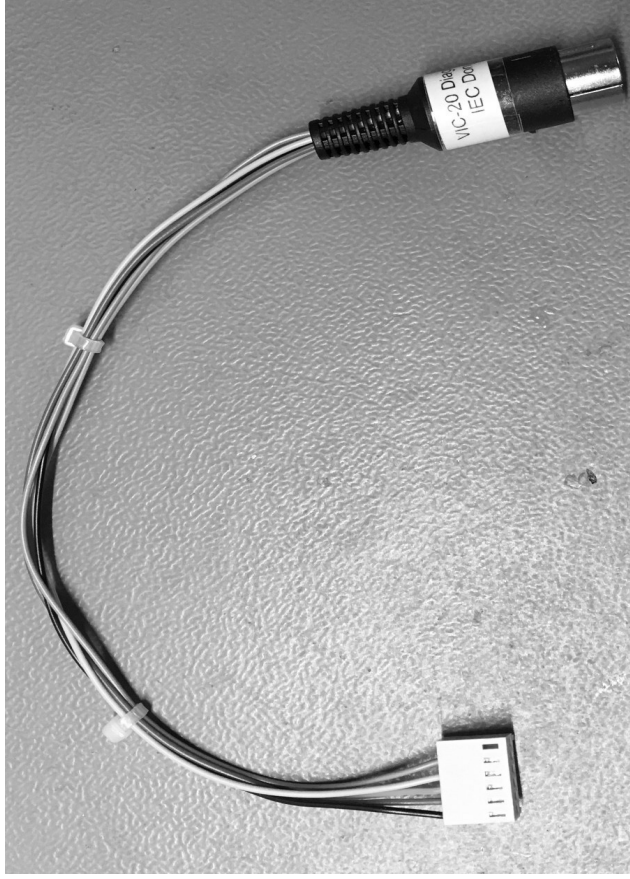
Module Description

The Diagnostic cable set is one components of the VIC-20 Diagnostics Harness. It consists of four cables:

- The IEC Port Cable (Doc.-No. 159-3-01-**)
- The Control Port Cable (Doc.-No. 159-3-02-**)
- The Cassette Port Cable (Doc.-No. 159-3-03-**)
- The Keyboard RESTORE cable (Doc.-No. 159-3-04-**)

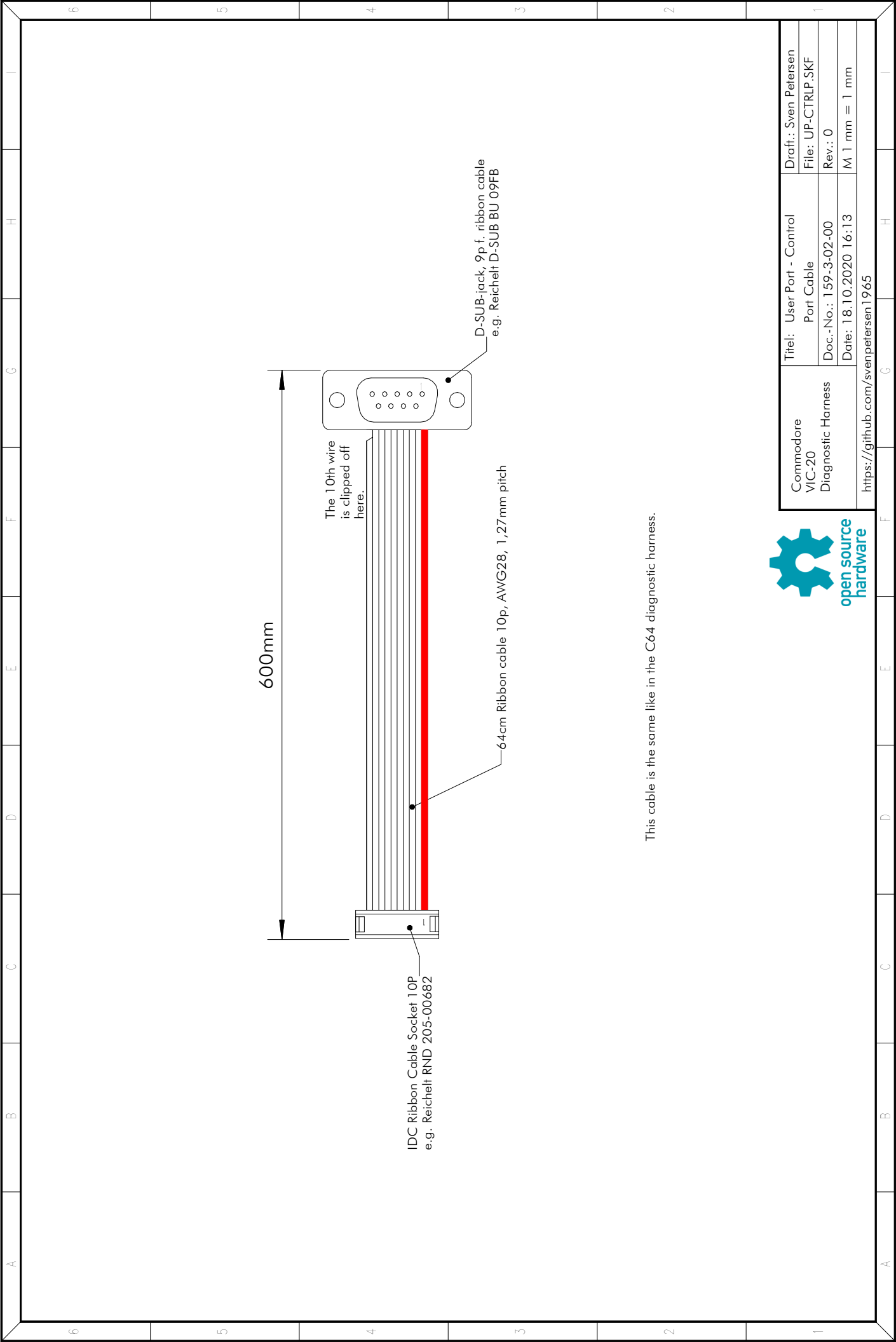
The Keyboard RESTORE cable is attached to the Keyboard PCB (Project-No. 156), a know serves as a strain relief.

The Control Port cable and the Cassette Port cable are both identical to the cables of the C64 diagnostic harness.



open source
hardware

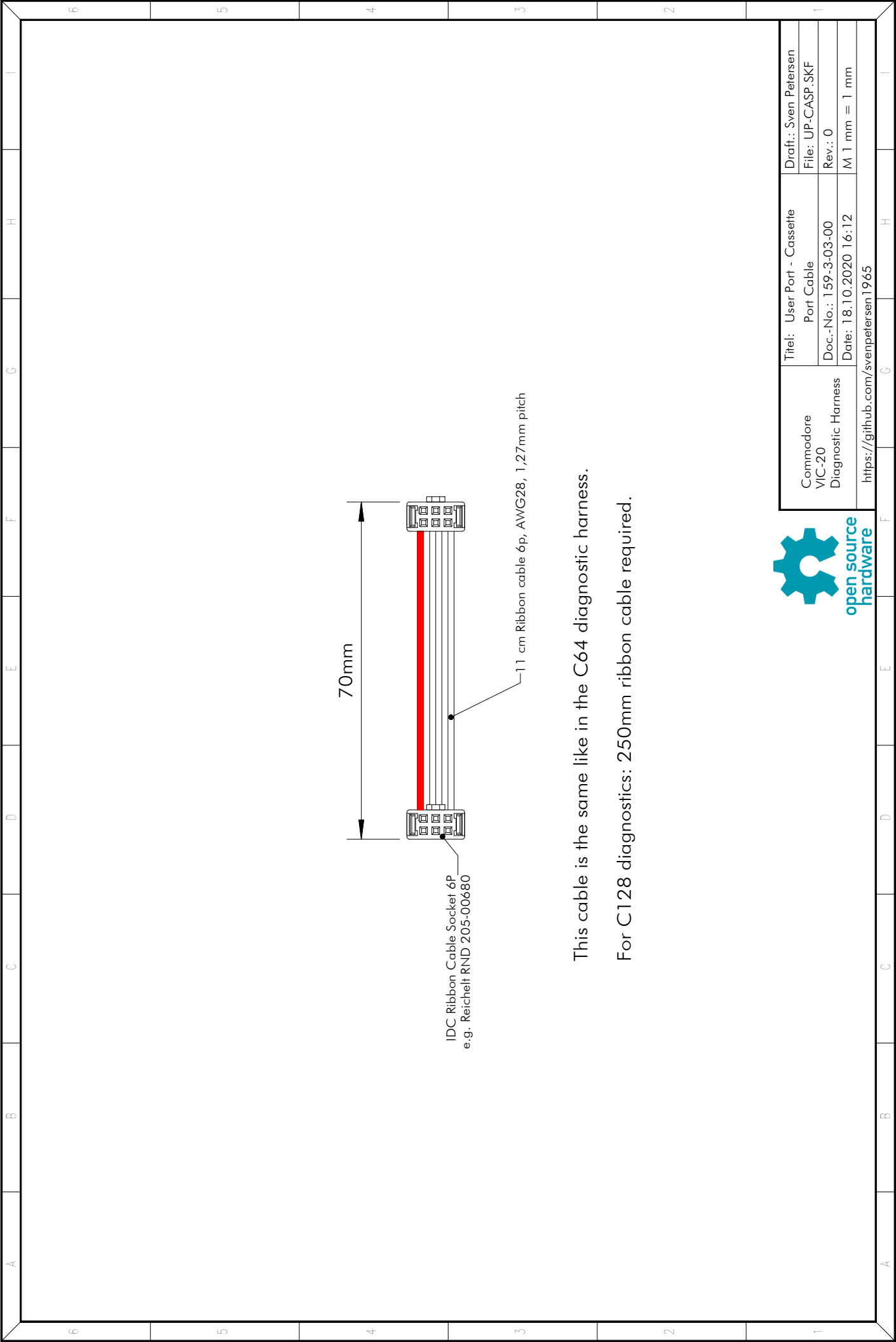
Commodore VIC-20 Diagnostic Harness	Titel: IEC-Dongle		Draft.: Sven Petersen
			File: IEC.SKF
	Doc.-No.: 159-3-01-00		Rev.: 0
	Date: 14.10.2020 15:22		M 1 mm = 1 mm
https://github.com/svenpetersen1965			



This cable is the same like in the C64 diagnostic harness.



Commodore VIC-20 Diagnostic Harness	Titel: User Port - Control Port Cable		Draft.: Sven Petersen
	Doc.-No.: 159-3-02-00		File: UP-CTRLP.SKF
	Date: 18.10.2020 16:13		Rev.: 0
	https://github.com/svenpetersen1965		M 1 mm = 1 mm

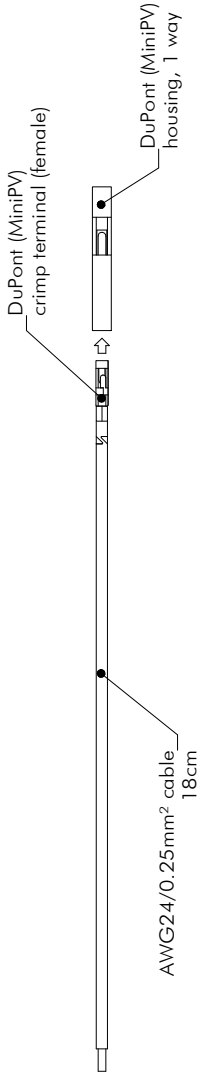


This cable is the same like in the C64 diagnostic harness.
For C128 diagnostics: 250mm ribbon cable required.



Commodore VIC-20 Diagnostic Harness https://github.com/svenpetersen1965	Titel: User Port - Cassette Port Cable		Draft.: Sven Petersen
	Doc.-No.: 159-3-03-00		File: UP-CASP.SKF
	Date: 18.10.2020 16:12		Rev.: 0
		M 1 mm = 1 mm	

The RESTORE cable is soldered to the Keyboard PCB
and secured with a knot.



Commodore VIC-20 Diagnostic Harness	Titel: User Port - Keyboard RESTORE Cable		Draft.: Sven Petersen
	Doc.-No.: 159-3-04-00		File: KB_RESTORE.SKF
	Date: 18.10.2020 16:09		Rev.: 0
	https://github.com/svenpetersen1965		M 1 mm = 1 mm

VIC-20 Diagnostic Cable Set Rev. 0

Bill of Material Rev. 0.0

Pos.	Qty	Value	Comment
1	1	KF2510/6 way	Crimp housing KF2510 (6 way) (Reichelt RND 205-00666) or AliExpress or Molex 22-01-3067 (Reichelt MOLEX 22013067)
2	5	KF2510 Terminals	Crimp Terminals for KF2510 (Reichelt RND 205-00696) or AliExpress or Molex 0850-0032 (Reichelt MOLEX 8500032). Attention: KF2510 crimp terminals do not mic with Molex
3	5	25cm Wire AWG24	or 5 way ribbon cable AWG28. Different colors are recommended
4	2	cable ties	small cable ties
5	1	DIN Plug 6 way	e.g. Hirschmann MAS60 (Reichelt MAS 60)
6	1	IDC ribbon cable socket 10 way	e.g. Reichelt IDC Ribbon Cable Socket 10P
7	1	64cm ribbon cable	10w, AWG28, 1.27mm pitch (standard)
8	1	Dsub 9, for ribbon cable	e.g. Reichelt D-SUB BU 09FB
9	2	IDC ribbon cable socket 6 way	e.g. Reichelt RND 205-00680
10	1	11cm ribbon cable	6w, AWG28, 1.27mm pitch (standard) (or 25cm for combining with C128 diagnostics)
11	1	18cm Wire AWG24	
12	1	DuPont crimp terminal	(DuPont aka MiniPV). Ebay, AliExpress, other online stores
13	1	DuPont housing 1 way	(DuPont aka MiniPV). Ebay, AliExpress, other online stores