



Melexis Universal Master Interface Cable Description

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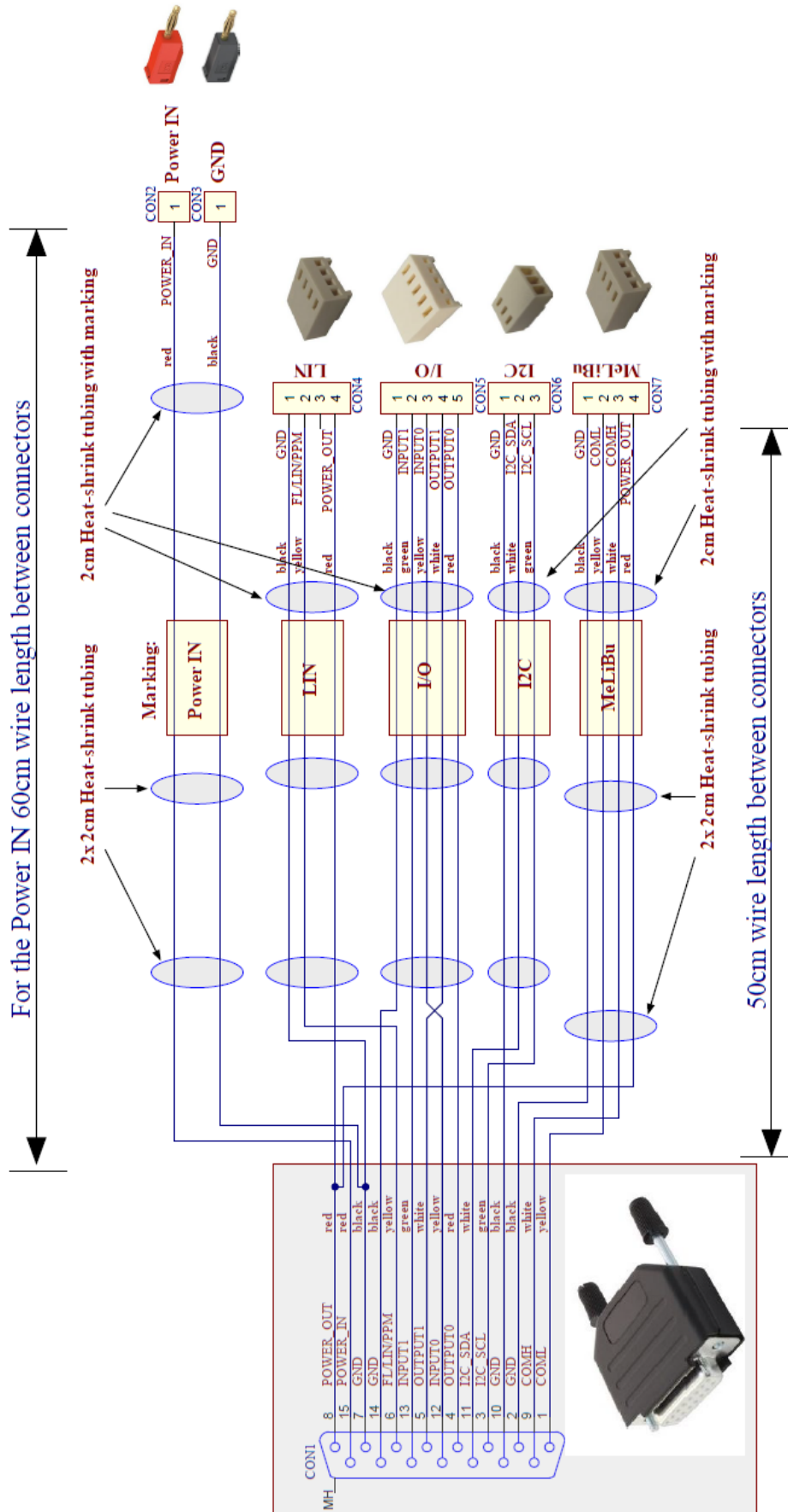
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1. Scope

This document is intended to give a brief introduction of the “Melexis Universal Master Interface Cable”. This cable is designed to connect the “Melexis Universal Master” with different Melexis EVBs.

The package includes beside of the cable itself also adapters 2/4mm for CON2/3

2. Cable overview



2.1. Cable

Color	Manufacturer	Manufacturer Part No:	Description
Red	STAUBLI	60.7003-22	Farnell: 4326763
Black	STAUBLI	60.7003-21	Farnell: 4326751
Yellow	STAUBLI	60.7003-24	Farnell: 4326787
Green	STAUBLI	60.7003-25	Farnell: 4326799
White	STAUBLI	60.7003-29	Buerklin: 94F1125

2.2. Connectors

2.2.1. Overview

Connector	Pin count	Manufacturer	Manufacturer Part No:	Description
CON1 MUM	15	MULTICOMP PRO MULTICOMP PRO Kit: MULTICOMP	5501-15SA-02-F1 MC-DPPK15-K Kit: MC-DPPK15-S-SDR-K	Farnell: 1084679 (connector) Farnell: 2346823 (housing) Kit: Farnell: 2916882
CON2 Power IN	1	STAUBLI	SLS205 Red 22.2616-22	Buerklin: 82F170 RS-online: 445-015 Farnell: 1085489
CON3 GND	1	STAUBLI	SLS205 Black 22.2616-21	Buerklin: 82F172 RS-online: 445-009 Farnell: 1085490
CON4 LIN	4	WURTH ELEKTRONIK	61900411621 61900113722DEC	Farnell: 1841379 Farnell: 1841425
CON5 I/O	5	WURTH ELEKTRONIK	61900511621 61900113722DEC	Farnell: 1841383 Farnell: 1841425
CON6 I2C	3	WURTH ELEKTRONIK	61900311621 61900113722DEC	Farnell: 1841375 Farnell: 1841425
CON7 MeLiBu	4	WURTH ELEKTRONIK	61900411621 61900113722DEC	Farnell: 1841379 Farnell: 1841425

2.2.2. CON1 - MUM

Pin	Color	Description
1	yellow	COML
2	black	GND
3	green	I2C SCL
4	red	OUTPUT0
5	white	OUTPUT1
6	yellow	FL/LIN/PPM
7	black	GND
8	red	POWER OUT
9	white	COMH
10	black	GND
11	white	I2C SDA
12	yellow	INPUT0
13	green	INPUT1
14	black	GND
15	red	POWER IN

2.2.3. CON2 – Power IN

Pin	Color	Description
1	red	POWER IN

2.2.4. CON3 – GND

Pin	Color	Description
1	black	GND

2.2.5. CON4 - LIN

Pin	Color	Description
1	black	GND
2	yellow	FL/LIN/PPM
3		Not used
4	red	POWER OUT from MUM

2.2.6. CON5 – I/O

Pin	Color	Description
1	black	GND
2	green	INPUT1
3	yellow	INPUT0
4	white	OUTPUT1
5	red	OUTPUT0



2.2.7. CON6 – I2C

Pin	Color	Description
1	black	GND
2	white	I2C SDA
3	green	I2C SCL

2.2.8. CON7 - MeLiBu

Pin	Color	Description
1	black	GND
2	yellow	COML
3	white	COMH
4	red	POWER OUT from MUM

2.3. Adapters 2/4mm for CON2/3

Color	Manufacturer	Manufacturer Part No:	Description	
Red	STAUBLI	24.0106-22	Farnell: 152742	
Black	STAUBLI	24.0106-21	Farnell: 152743	

2.4. Print Stickers for Cables

The connectors CON4, CON5, CON6 and CON7 should be labeled with one of the following kind of stickers (see Figure 1 and Figure 2).

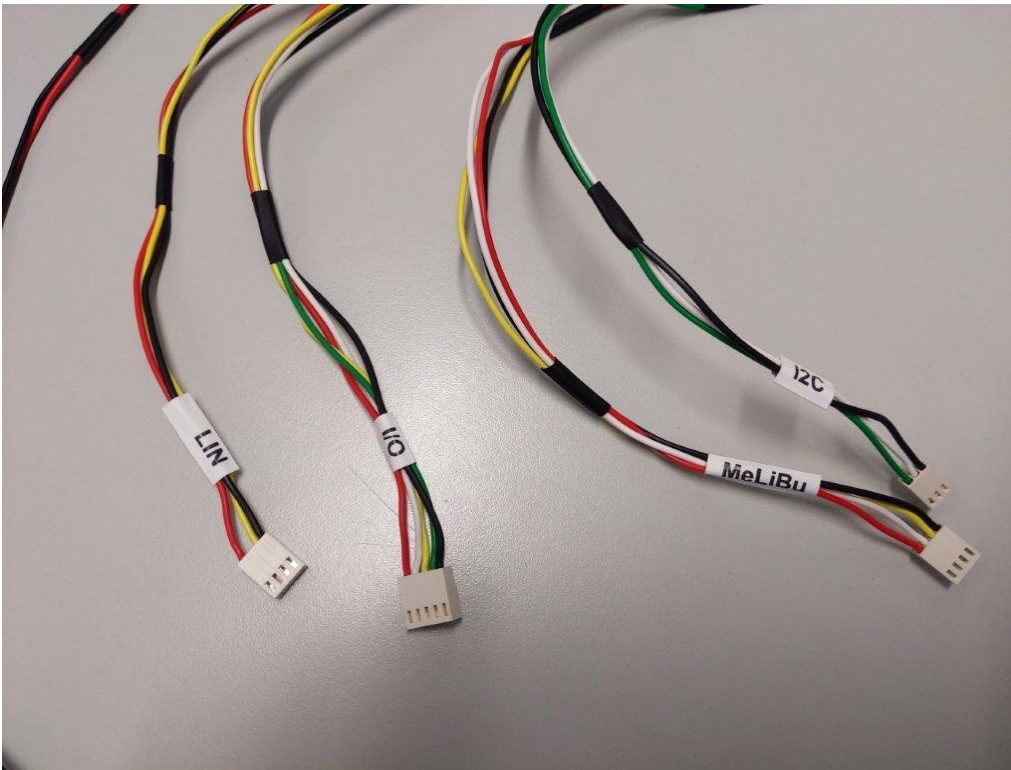


Figure 1 – Printed heat-shrink tube

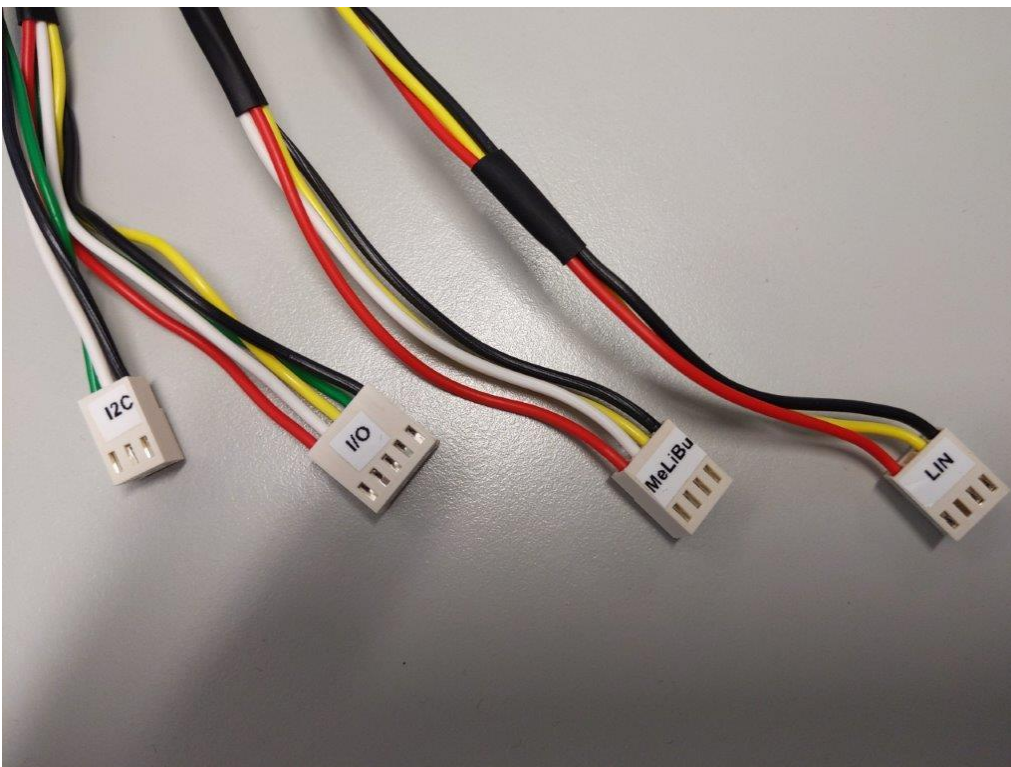


Figure 2 - Printed Labels

Application note MLX81116

Melexis Universal Master Interface Cable Description

The connectors should have following label description:


Connector	Label Description
CON4	LIN
CON5	I/O
CON6	I2C
CON7	MeLiBu

Example for the label material:

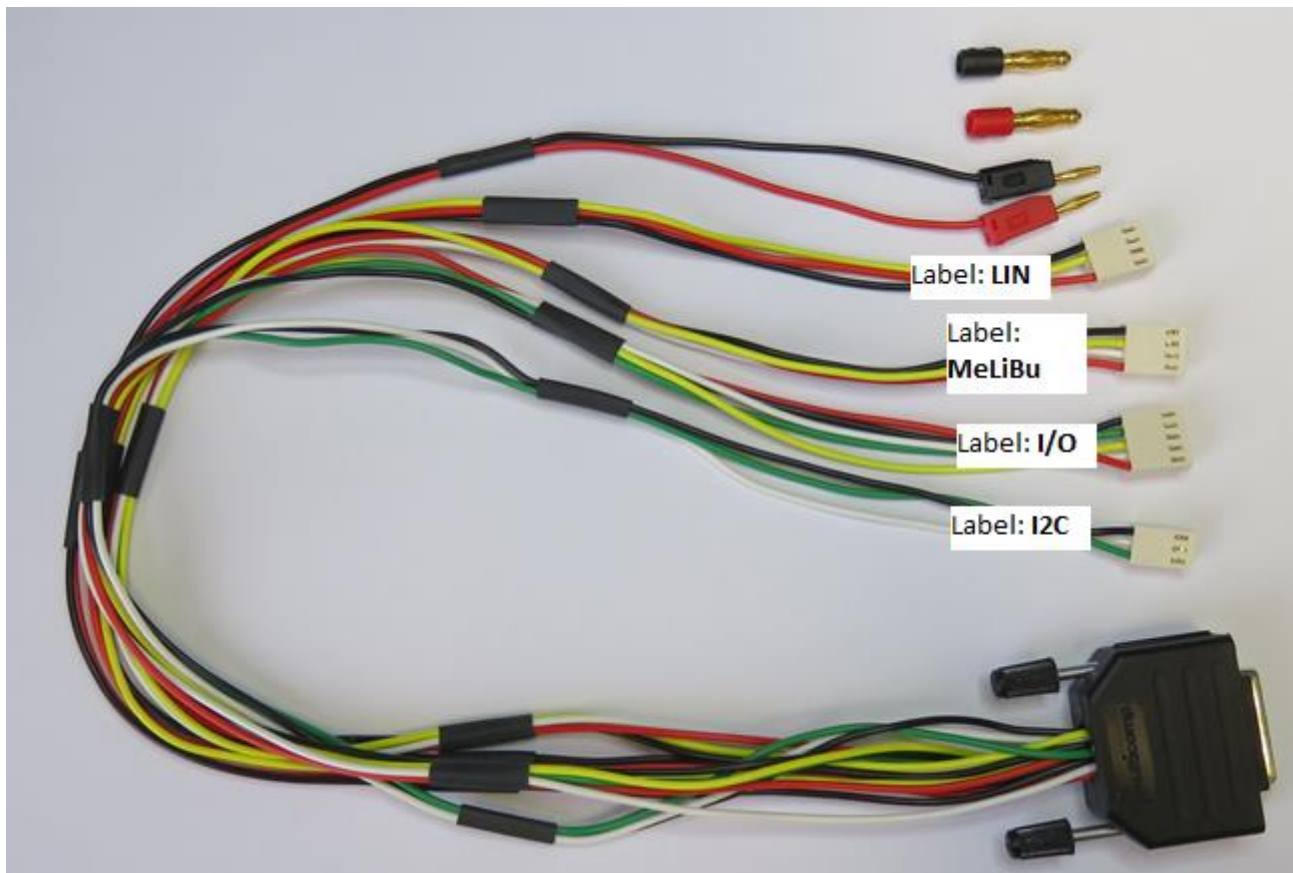
- DYMO Heat-Shrink Tube P/N 18053
- DYMO Standard Label 43613

Both labels can be printed with DYMO LabelManager PC II.

3. Packaging

Manufacturer	Manufacturer Part No:	Description	
MULTICOMP	013-0003	Static shielding bag with ziplock 102 x 152mm Farnell: 1687798	

The cable, together with the two adapters, is packaged in a static shielded bag, which is labeled as “Universal Master Interface Cable”.



4. Revision History

Version	Changes	Date
001	-	17.01.20
002	- Add CON5 I/O - Add CON6 I2C	17.01.20
003	- Add chapter "Adapters 2/4mm for CON2/3" - Add chapter "Packaging"	19.10.20
004	- Cable schematic in Chapter "Cable overview" updated	27.04.21
005	- Additional order codes and distributor in BoM added	29.04.21

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