

Cable Documentation

B.MKAB.53

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**Elektronik
Systeme**

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About This Document

This document describes how to use the [B.MKAB.53](#) cable with mechanical and electrical information. The latest version of this document can be found at:

<http://www.fs-net.de>.

ESD Requirements



All F&S hardware products are ESD (electrostatic sensitive devices). All products are handled and packaged according to ESD guidelines. Please do not handle or store ESD-sensitive material in ESD-unsafe environments. Negligent handling will harm the product and warranty claims become void.

History

Date	V	Platform	A,M,R	Chapter	Description	Au
2020-08-20	1.00	B.MKAB. 53	A	*	First version	MW

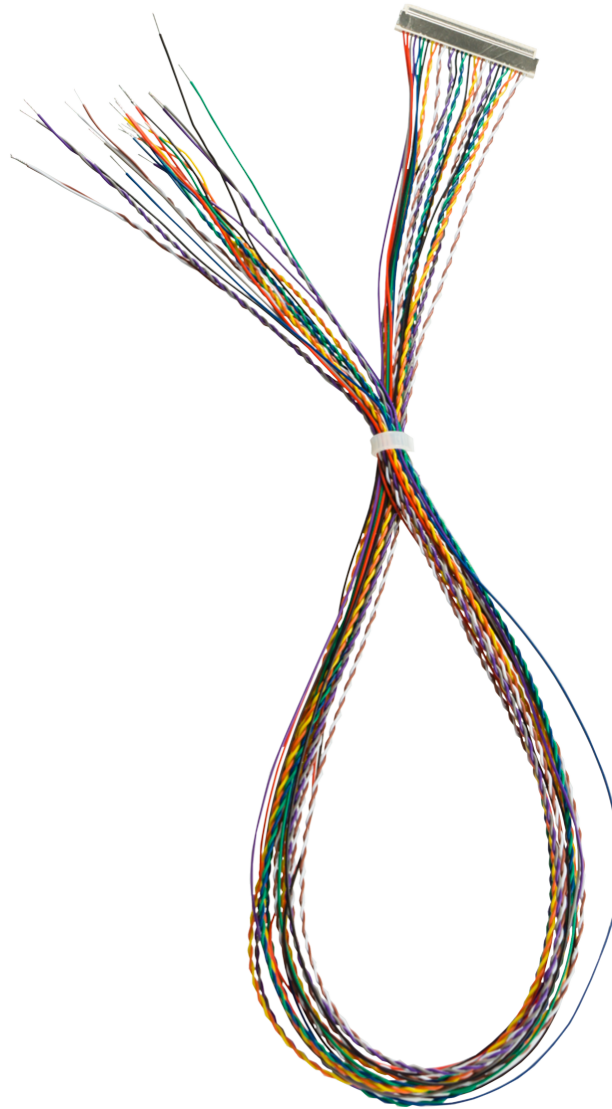
V Version
A,M,R Added, Modified, Removed
Au Author

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1 Cable Picture



2 Connection Table

Pin	Signal	Color	Remarks
1	A_DATA0_N	White	Twisted Pair
2	A_DATA0_P	Brown	
3	A_DATA1_N	Orange	Twisted Pair
4	A_DATA1_P	Yellow	
5	A_DATA2_N	Green	Twisted Pair
6	A_DATA2_P	Blue	
7	GND	Black	
8	A_CLK_N	Purple	Twisted Pair
9	A_CLK_P	Grey	
10	A_DATA3_N	White	Twisted Pair

11	A_DATA3_P	Brown	
12	B_DATA0_N	Orange	Twisted Pair
13	B_DATA0_P	Yellow	
14	GND	Black	
15	B_DATA1_N	Green	Twisted Pair
16	B_DATA1_P	Blue	
17	GND	Black	
18	B_DATA2_N	Purple	Twisted Pair
19	B_DATA2_P	Grey	
20	B_CLK_N	White	Twisted Pair
21	B_CLK_P	Brown	
22	B_DATA3_N	Orange	Twisted Pair
23	B_DATA3_P	Yellow	
24	GND	Black	
25	SDA	Green	
26	IRQ	Blue	
27	SCL	Purple	
28	RST	Grey	
29	VLCD	Red	
30	VLCD	Red	

Figure 1: Connection Table

3 Cable Characteristics

Characteristic	Description
Cable Length	500mm ± 20mm
Cable Type	UL1571
Cable Size	AWG28
Voltage Rating	30V
Temperature Rating	-30°C ... +80°C

Table 1: Cable Characteristics

4 Second source rules

F&S qualifies their second sources for parts autonomously, as long as this does not touch the technical characteristics of the product. This is necessary to guarantee delivery times and product life. A setup of release samples with released second sources is not possible.

F&S does not use broker components without the consent of the customer.

5 Storage conditions

Maximum storage on room temperature with non-condensing humidity: 6 months

Maximum storage on controlled conditions 25 ±5 °C, max. 60% humidity: 12 months

For longer storage we recommend vacuum dry packs.

6 ROHS and REACH statement

All F&S designs are created from lead-free components and are completely ROHS compliant.

The products we supply do not contain any substance on the latest candidate list published by the European Chemicals Agency according to Article 59(1,10) of Regulation (EC) 1907/2006 (REACH) in a concentration above 0.1 mass %.

Consequently, the obligations in No. 1 and 2 paragraphs in Annex are not relevant here.

Please understand that F&S is not performing any chemical analysis on its products to testify REACH compliance and is therefore not able to fill out any detailed inquiry forms.

7 Packaging

All F&S ESD-sensitive products are shipped either in trays or bags.

8 Appendix

Important Notice

The information in this publication has been carefully checked and is believed to be entirely accurate at the time of publication. F&S Elektronik Systeme (“F&S”) assumes no responsibility, however, for possible errors or omissions, or for any consequences resulting from the use of the information contained in this documentation.

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Specific testing of all parameters of each device is not necessarily performed unless required by law or regulation.

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Specifications are subject to change without notice.



Warranty Terms

Hardware Warranties

F&S guarantees hardware products against defects in workmanship and material for a period of one (1) year from the date of shipment. Your sole remedy and F&S's sole liability shall be for F&S, at its sole discretion, to either repair or replace the defective hardware product at no charge or to refund the purchase price. Shipment costs in both directions are the responsibility of the customer. This warranty is void if the hardware product has been altered or damaged by accident, misuse or abuse.

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