

DAQ connectivity technology: Cables, terminal blocks

Overview



In DAQ applications special attention has to be paid to the connectivity's reliability and noise immunity. In many cases noise and errors have their origin in this place! Only use tried and tested high-quality cable and terminal blocks from Meilhaus Electronic: For high precision and clear structures in your measurement and control system.

- For all products with **standard D-sub connectors**, eg. **ME series** and **boards from other suppliers**.
- **Ideal solution for industry and lab.**
- **Shielded high-quality cable:**
 - 1:1 contacted. Combination of male-female connectors. With D-sub 15-, 25-, 37-, 50- or 78-pin. HQ models with higher diameter and metallised housing.
 - Special cables for expansion systems etc.
 - Tested GPIB high-quality cable.
- **Terminal blocks:**
 - With **D-sub connectors** (15-, 25-, 37-, 50- or 78-pin, female or male) and **spring terminals**.
 - DIN rail mountable.
 - Easy and reliable installation. Wires can't slip out of the terminals. No multi core cable ends required. The tool to open the spring terminals is **included!**
 - BNC boxes for analog DAQ boards.
- Connector boxes/panels for serial interface boards with D-sub or RJ45.
- To find the right accessory, also check the DAQ products themselves! The accessory is listed on the pages.

» Cables and female/male connectors



ME AK-D15: 2 m cable, 15-pin D-sub male - female



ME AK-D25/x: 1 or 2 m cable, 25-pin D-sub male - female



ME AK-D37/x: 2 m cable, 37-pin D-sub male - female (as HQ: 0.25 m, 1 m, 2 m length and 1 m open ends)



ME AK-D50: 2 m cable, 50-pin D-sub male - female



ME AK-D78/x: 0.25 m, 1 m, 2 m cable, 78-pin D-sub male - female (as HQ: 0.25 m, 1 m, 2 m length and 1 m open ends)



ME AK-D78/4000M-F/x: 0.25 m, 1 m, 2 m special cable, 78-pin D-sub male - female, for ME-46xx (as M-OE/1: 1 m, open ends)



ME AK-D78/6000M-F/x: 0.25 m, 1 m, 2 m special cable, 78-pin D-sub male - female, for ME-6x00 (as M-OE/1: 1 m, open ends)



ME AK-D78/6000M-M/x: 0.25 m, 1 m, 2 m special cable, 78-pin D-sub male - male, for ME-6x00 with ME-6 cPCI



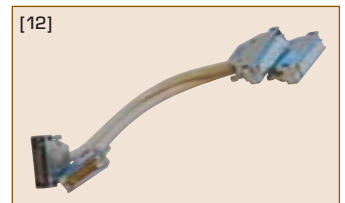
ME AK-D2578/4000: 0.5 m cable, 25-pin D-sub male - 78-pin D-sub female



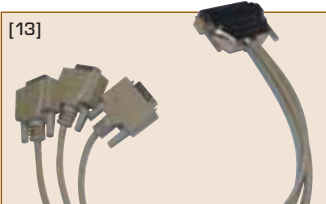
ME AK-D2515/4000: 0.5 m cable, 25-pin D-sub male - 2x 15-pin D-sub male



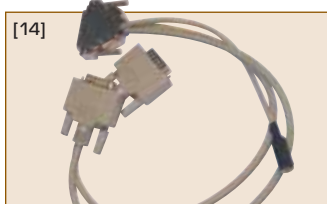
ME AK-D78/1000: 1 m cable, 78-pin D-sub male - 2x 78-pin D-sub female



ME AK-D2578/1000 (picture: 2x): 0.5 m cable, 25-pin D-sub male - 78-pin D-sub female



ME AK-DUB: 1 m cable, 37-pin D-sub female - 3x 15-pin D-sub male + low-voltage female. For ME-RedLab 1008



ME AK-DUB/LJ: 1 m cable, 25-pin D-sub male - 2x 15-pin D-sub male + low-voltage female. Für LabJack U12



ME AK-DUB/UM202: 1 m cable, 26-pin D-sub female - 3x 15-pin D-sub male + low-voltage female. For MEphisto Scope UM202



ME AK-D7815/1400: 0.5 m cable, 78-pin D-sub male - 25-pin D-sub male + 3x 15-pin D-sub male

DAQ connectivity technology: Cables, terminal blocks**Overview**

Find a detailed description of the accessory products on the following pages!



ME AK-D78/1400: 1 m cable, 78-pin D-sub male - 3x 78-pin D-sub female + 25-pin D-sub female



ME AK-D25F/S: Flat ribbon cable, 26-pin female IDC and 25-pin D-sub female on slot bracket



ME AK-DDual, DQuad, DOcto (/HQ): 1 m cable, 78-pin D-sub male - 2x/4x/8x 9-pin D-sub male



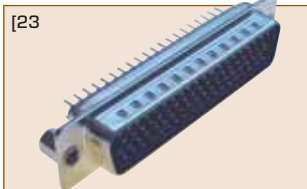
GPIB quality cable: Cable according to IEEE488/GPIB/HPIB standard, various lengths and types



ME AS-D78M/BNC: 78-pin D-sub male and 1 BNC female (pin 39).



ME AS-DxxM/F: xx-pin D-sub-counter connector male (M) or female (F). 15-, 25-, 37-, 50- or 78-pin.



ME AS-D78M-180: 78-pin D-sub male (M), 180° mountable



ME AS-D78M-LP and -F-LP: 78-pin D-sub male (M) or female (F), 90° mountable

» Terminal blocks and connector boxes



ME AB-D15M/F: Terminal block, 15-pin D-sub female (F) or male (M) and spring terminals



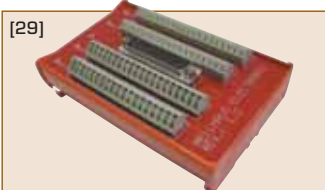
ME AB-D25M/F: Terminal block, 25-pin D-sub female (F) or male (M) and spring terminals (without cable!)



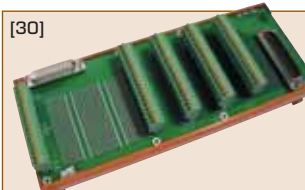
ME AB-D37M/F: Terminal block, 37-pin D-sub female (F) or male (M) and spring terminals



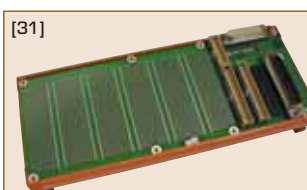
ME AB-D50M/F: Terminal block, 50-pin D-sub female (F) or male (M) and spring terminals



ME AB-D78M: Terminal block, 78-pin D-sub male (M) and spring terminals



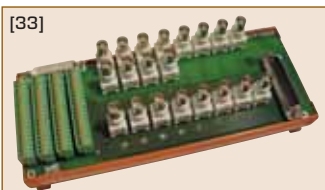
ME AB-D78M/S and /S-H: Deluxe terminal block, 78-pin D-sub male (M), pluggable spring terminals



ME AB-D78M/P-H: Deluxe terminal block, 78-pin D-sub male (M), proto typing area for user circuitry/signal conditioning



ME AB-D78M/4000 and /4000-H: Deluxe terminal block for ME-46xx, 78-pin D-sub male (M), BNC, pluggable spring terminals



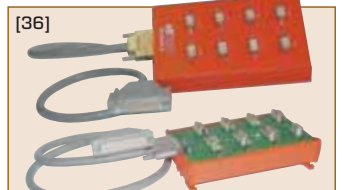
ME AB-D78M/6000 and /6000-H: Deluxe terminal block for ME-6x00, 78-pin D-sub male (M), BNC, pluggable spring terminals



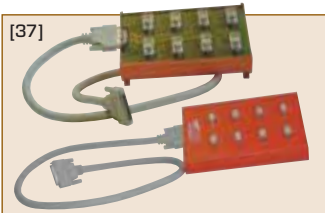
ME-UB15: Connector box, 15-pin D-sub female and spring terminals



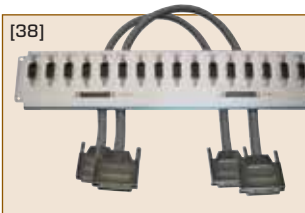
ME-UB37: Connector box, 37-pin D-sub female and spring terminals



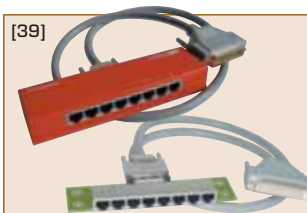
ME AB-D9/8 (-H) (-POT): Connector metal box or DIN rail mountable module (H), 78-pin D-sub male - 8x 9-pin D-sub male (-POT)



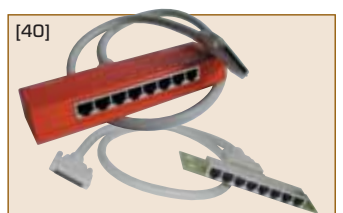
ME AB-D9/8-V and -HV: Connector metal box or DIN rail mountable module (H), 68-pin VHDC male - 8x 9-pin male



ME AB-D9/16-V: 19" connector panel, 2x 68-pin VHDC male - 16x 9-pin male



ME AB-RJ45/8x8 and -P: Connector metal box or OEM card (P), 78-pin D-sub male - 8x RJ45



ME AB-RJ45/8x8-V and -PV: Connector metal box or OEM card (P), 68-pin VHDC male - 8x RJ45

DAQ connectivity technology: Cables, terminal blocks

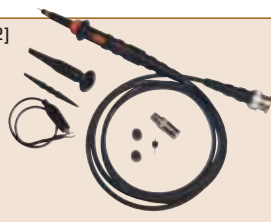
Overview

[41]



ME-Probe LF and LF Paar: Modular single probe or pair of probes, x1/x10, 15/150 MHz

[42]



ME-Probe HF: Modular single probe, x1/x10, 30/300 MHz

[43]



ME-Probe Logic Set Colour and Set 10: Micro IC logic clips, set of 10, various colours

[44]



GPIB accessory: Bus extenders, bus isolators, interfaces and interface converters, bus switches...

» Expansions for additional functions

[45]



ME-63Xtend series - ME-631 EXT: 78-pin D-sub male, pluggable spring terminals. 16 relays type C. Expands TTL digital channels

[46]



ME-63Xtend series - ME-632 EXT: 78-pin D-sub male, pluggable spring terminals. 16 opto-inputs. Expands TTL digital channels

[47]



ME-63Xtend series - ME-633 EXT: 78-pin D-sub male, pluggable spring terminals. 16 opto-outputs. Expands TTL digital channels

[48]



ME-63Xtend series - ME-634 EXT: 78-pin D-sub male, pluggable spring terminals. 8 opto-inputs/8 opto-outputs. Expands TTL digital channels

[49]



ME-63Xtend series - ME-635 EXT: 78-pin D-sub male, pluggable spring terminals. 16 solid state relays. Expands TTL digital channels

[50]



ME-UB Serie - ME-UBRE: 15-pin D-sub female, spring terminals. 8 relays type C. Expands TTL digital channels

[51]



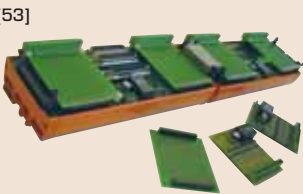
ME-UB Serie - ME-UBOI: 15-pin D-sub female, spring terminals. 8 opto-inputs. Expands TTL digital channels

[52]



ME-UB Serie - ME-UBOO: 15-pin D-sub female, spring terminals. 8 opto-outputs type C. Expands TTL digital channels

[53]



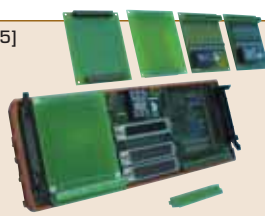
ME-MultiSig series - ME-MUX32-M and S: Analog multiplexer for more analog inputs. Multiplexes 16-to-1, 32-to-1 and up to 256-to-1 and more. Master and slave modules. Plug-on signal conditioning

[54]



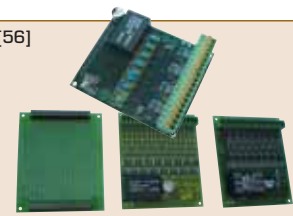
ME-MultiSig series - ME-DEMUX32: Analog demultiplexer for more analog outputs. Demultiplexes 1-to-32. Plug-on user signal conditioning

[55]



ME-MultiSig series - ME-SIG32: Analog signal conditioning with plug-on modules. Up to 32 channels

[56]



ME-MultiSig series - signal conditioning: Plug-on modules for differential voltage inputs, differential current inputs, RTDs (Pt100, 500, 1000), thermocouples J, K, T, E, R, S, B, N and user circuitry

When you select your accessory, please note:

- Most of the ME 1:1 standard cables ME AK-Dxx have a **male and a female connector**. So always use the same standard cable, no matter whether the DAQ board has a D-sub male or female connector. Just select the right number of pins. Then choose a terminal block with a counter connector (eg. DAQ board: female -> terminal block: male).
- For a high noise immunity choose **cables as short as possible**. For sensitive, small DAQ signals we recommend the use of cables with special shielding.
- Of course our sales team will help you to find the right accessory. Just call our hotline: ☎ ++49 - 89 - 89 01 66-0 or E-Mail to sales@meilhaus.com

Notes for the following tables:

- As an **example**, a selection of supported ME products is listed, but most of the accessory products can also be used with boards from other suppliers. ME AB always means the terminal block ME AB-D... belonging to the cable.
- The **HQ cables** have **metal/metalised housings and a higher line diameter** of 0.25 mm². Their max. current load is 1.4 A per wire, for load on 20 wires: 2 A. The standard cables have a max. current load of 0.35 A per wire.
- The models **“-OE”** have a D-sub connector on the board side and **open ends** on the application side. Use these cables to solder your own special connectors or to connect to spring/screw terminal systems.
- In the **special cables** for the ME-FoXX ME-46xx, ME-Jekyll ME-4610 and ME-6x00 families, certain signal groups are bundled together (eg. analog signals grouped and shielded from the digital signals). This gives you a **high level of noise immunity** for sensitive DAQ systems.

DAQ connectivity technology: Cables, terminal blocks

Overview

» Ordering codes and functions

Standard and special cable ME AK

→ These cables are 1:1 contacted:

Model	Length	Side 1	Side 2	Connects...
[1] ME AK-D15/2	2 m	15-pin D-sub male	15-pin D-sub female	ME-96↔ME AB.
[2] ME AK-D25/x	1 m 2 m	25-pin D-sub male	25-pin D-sub female	ME-1400(A) with ME-63Xtend↔ME AB. ME-95, ME-94, ME-26↔ME AB. On-board DIO ports of ME-FoXX ME-46xx, ME-Jekyll ME4610, ME-630/ MEphisto Switch, ME-8200/MEphisto Opto, ME-6x00↔ME AB. LabJack U12↔ME AB.
[3] ME AK-D37/2	2 m	37-pin D-sub male	37-pin D-sub female	ME-160, ME-81, ME-63, ME-14, ME-8200, ME-1400E↔ME AB. ME-RedLab 1008↔ME AB.
ME AK-D37/HQ/x	0.25 m 1 m 2 m			
ME AK-D37/HQ-OE/1	1 m	37-pin D-sub male	Open ends	
[4] ME AK-D50	2 m	50-pin D-sub male	50-pin D-sub female	ME-300, ME-260↔ME AB.
[5] ME AK-D78/x	0.25 m	78-pin D-sub male	78-pin D-sub female	ME-8100, ME-6x00, ME-FoXX ME-46xx, ME-Jekyll ME-4610, ME-3000, ME-2600i, ME-2000i, ME-1600, ME-1400/MEphisto Digi, ME-1000, ME-630/MEphisto Switch↔ME AB. ME-FoXX ME-46xx, ME-Jekyll ME-4610, ME-3000, ME-2600i, ME-2000i↔ME-MultiSig. ME-1400(A)/MEphisto Digi (A)↔ME-63Xtend.
ME AK-D78/HQ/x	1 m 2 m			
ME AB-D78/HQ-OE/1	1 m	78-pin D-sub male	Open ends	
[6] ME AK-D78/4000M-F/x	0.25 m 1 m 2 m	78-pin D-sub male	78-pin D-sub female	Cable with special shielding, use instead of ME AKD78/x for ME-FoXX ME-46xx or ME-Jekyll ME-4610
ME AK-D78/4000M-OE/1	1 m	78-pin D-sub male	Open ends	
[7] ME AK-D78/6000M-F/x	0.25 m 1 m 2 m	78-pin D-sub male	78-pin D-sub female	Cable with special shielding, use instead of ME AKD78/x for ME-6x00
ME AK-D78/6000M-OE/1	1 m	78-pin D-sub male	Open ends	
[8] ME AK-D78/6000M-M/0.25	0.25 m	78-pin D-sub male	78-pin D-sub male	ME-6x00p cPCI↔ME-6 cPCI
→ Use these cables for special connections , eg. with ME-MultiSig, ME-UB or ME-63Xtend expansions:				
[9] ME AK-D2578/4000	0.5 m	25-pin D-sub male	78-pin D-sub female	ME-8200/MEphisto Opto, ME-FoXX ME-46xx, ME-Jekyll ME-4610, ME-6x00, ME-630/MEphisto Switch↔ME-63Xtend.
[10] ME AK-D2515/4000	0.5 m	25-pin D-sub male	2x 15-pin D-sub male	ME-8200/MEphisto Opto, ME-FoXX ME-46xx, ME-Jekyll ME-4610, ME-6x00, ME-630/MEphisto Switch↔2x ME-UB.
[11] ME AK-D78/1000	1 m	78-pin D-sub male	78-pin D-sub female	ME-1000↔2x ME-63Xtend.
[12] ME AK-D2578/1000	0.5 m	25-pin D-sub male	78-pin D-sub female	ME-63Xtend at ME-1000↔1x additional ME-63Xtend.
[13] ME AK-DUB	1 m	37-pin D-sub female	3x 15-pin D-sub male	ME-RedLab 1008↔3x ME-UB Serie + power supply.
[14] ME AK-DUB/LJ	1 m	25-pin D-sub Stecker	2x 15-pin D-sub male	LabJack U12↔2x ME-UB Serie + power supply.
[15] ME AK-DUB/UM202	1 m	26-pin D-sub Stecker	3x 15-pin D-sub male	MEphisto Scope 1 UM202↔3x ME-UB series + power supply.
[16] ME AK-D7815/1400	0.5 m	25-pin D-sub male	3x 15-pin D-sub male	ME-1400(A)↔3x ME-UB series.
[17] ME AK-D78/1400	1 m	78-pin D-sub male	3x 78-pin D-sub female 1x 25-pin D-sub female	ME-1400(A, B)↔3x ME-63Xtend (digital I/O) and 1x ME AB-D25M (counter).
ME AK-BNC/x	various	BNC	BNC	ME-6x00↔ME AB-D78M/6000(-H)↔ME-5
ME AK-LAN/x	various	Ethernet RJ45	Ethernet RJ45	ME-Synapse↔PC/Ethernet
[20] GPIB quality cable	various	Standard GPIB connectos		In detail on page 78.

» Ordering codes and functions

Special cables and options

→ Cables for boards from other suppliers with ME-MultiSig system see "ME-MultiSig" in this chapter.

» Ordering codes and functions

Counter connectors male/ female

→ Almost all ME series boards (designed by Meilhaus Electronic) are delivered including the right **counter connectors (male or female)**. So users can solder and configure their own connectivity. Also available as spare parts:

Model	Description	For use with ME series boards...
[21] ME AS-D78M/BNC	78-pin D-sub male to 1 BNC (connects pin 39 to BNC, for ME-MUX full configuration)	ME-Jekyll, ME-FoXX, ME-3000, ME-2600i, ME-2000i with ME AB-BNC-16/32 and ME-MUX32 system full configuration (on request).
[22] ME AS-DxxF	xx-pin counter connector female, spare part	Most of the ME series boards include the right counter connector male/female. Can also be ordered as optional spare part.
ME AS-DxxM	xx-pin counter connector male, spare part	
[23] ME AS-D78M-180	78-pin D-sub male, print mount 180°	
[24] ME AS-D78M-LP	78-pin D-sub male, print mount 90°	For user circuitry cards, for all boards with 78-pin D-sub connectors.
ME AS-D78F-LP	78-pin D-sub female, print mount 90°	

» Ordering codes and functions

Probes, clips

→ Scope probes and logic analyser clips:

Model	Description
[41] ME Probe LF	Modular standard probes for classic desktop and USB scopes. Up to 15/150 MHz or 30/300 MHz.
[42] ME Probe HF	
[43] ME-Probe Logic	Versatile micro IC logic clips for logic analysers

DAQ connectivity technology: Cables, terminal blocks

Overview



» Ordering codes and functions

Standard terminal blocks ME AB

→ **DIN rail mountable or on the lab desktop.** With D-sub and spring terminals, easy to connect - incl. tool to open the spring terminals. For use with ME series boards (see table) and products of other suppliers.

	Model	Side 1	Side 2	For ME series boards...
[25]	ME AB-D15M ¹⁾	15-pin D-sub male	Spring terminals	-
	ME AB-D15F ¹⁾	15-pin D-sub female	Spring terminals	ME-96. Can also be used instead of ME-UB15.
[26]	ME AB-D25M ¹⁾	25-pin D-sub male	Spring terminals	ME-1400 with ME-63Xtend. On-board DIO ports of the ME-FoXX ME-46xx, ME-Jekyll ME4610, ME-630/MEphisto Switch, ME-8200/MEphisto Opto, ME-6x00. LabJack U12
	ME AB-D25F ¹⁾	25-pin D-sub female	Spring terminals	ME-95, ME-94, ME-26.
[27]	ME AB-D37M ¹⁾	37-pin D-sub male	Spring terminals	ME-160, ME-81, ME-63, ME-14, ME-8200/MEphisto Opto.
	ME AB-D37F ¹⁾	37-pin D-sub female	Spring terminals	Can be used instead of ME-UB37.
[28]	ME AB-D50M ¹⁾	50-pin D-sub male	Spring terminals	ME-300, ME-260.
	ME AB-D50F ¹⁾	50-pin D-sub female	Spring terminals	-
[29]	ME AB-D78M ¹⁾	78-pin D-sub male	Spring terminals	ME-8100, ME-6x00, ME-FoXX ME-46xx, ME-Jekyll ME-4610, ME-3000,
[30]	ME AB-D78M/S ²⁾	78-pin D-sub male	Pluggable spring terminals and D-sub	ME-2600i, ME-2000i, ME-1600, ME-1400/MEphisto Digi, ME-1000,
	ME AB-D78M/S-H ¹⁾			ME-630/MEphisto Switch
[31]	ME AB-D78M/P-H ¹⁾	78-pin D-sub male	IDC and prototyping area	
[32]	ME AB-D78M/4000 ²⁾	78-pin D-sub male	BNC, pluggable spring terminals, D-sub	ME-FoXX ME-46xx, ME-Jekyll ME-4610
	ME AB-D78M/4000-H ¹⁾			
[33]	ME AB-D78M/6000 ²⁾	78-pin D-sub male	BNC, pluggable spring terminals, D-sub	ME-6x00
	ME AB-D78M/6000-H ¹⁾			
-	ME AB-BNC16 ²⁾	78-pin D-sub male	16 BNC	ME-3000, ME-2600i, ME-2000i. BNC for 16 single-ended analog inputs. With 1 m integrated cable.
[34]	ME-UB15 ³⁾	15-pin D-sub female	Spring terminals	On-board DIO ports of the ME-FoXX ME-46xx, ME-Jekyll ME4610, ME-630/MEphisto Switch, ME-8200/MEphisto Opto, ME-6x00, ME-1400 (A), LabJack U12, ME-RedLab 1008. Can be used for ME AB-D15F
[35]	ME-UB37 ³⁾	37-pin D-sub female	Spring terminals	ME-RedLab 1008. Can also be used instead of ME AB-D37F

» Ordering codes and functions

Interface connectivity: Serial COM, GPIB

→ Accessory for ME series **serial interface boards** and for **GPIB instrumentation in general.**

	Model	Side 1	Side 2	For ME series boards...
[36]	ME AB-D9/8 ²⁾	78-pin D-sub male	8x 9-pin D-sub male	ME-9100i, ME-9000, ME-9000i (incl. cable)
	ME AB-D9/8-H ¹⁾	78-pin D-sub male	8x 9-pin D-sub male	
	ME AB-D9/8-POT ²⁾	78-pin D-sub male	8x 9-pin D-sub male	ME-9000p (incl. cable)
	ME AB-D9/8-H-POT ¹⁾	78-pin D-sub male	8x 9-pin D-sub male	
[37]	ME AB-D9/8-V ²⁾	68-pin VHDC male	8x 9-pin D-sub male	ME-9300 (incl. cable)
	ME AB-D9/8-HV ¹⁾	68-pin VHDC male	8x 9-pin D-sub male	
[38]	ME AB-D9/16-V ⁴⁾	2x 68-pin VHDC male	16x 9-pin D-sub male	ME-9300 connectivity panel with 2x cable
[39]	ME AB-RJ45/8x8 ²⁾	78-pin D-sub male	8x RJ45 female ³⁾	
	ME AB-RJ45/8x8-P ⁵⁾	78-pin D-sub male	8x RJ45 female ³⁾	
[40]	ME AB-RJ45/8x8-V ²⁾	68-pin VHDC male	8x RJ45 female ³⁾	ME-9100i, ME-9000, ME-9000i (incl. cable). RS232 compatible with Rocket-Port.
	ME AB-RJ45/8x8-PV ⁵⁾	68-pin VHDC male	8x RJ45 female ³⁾	
[44]	GPIB accessory	GPIB adapters, converters, panels, bus switches, distribution rails. In detail see page 79. Find the GPIB interfaces for PCI, USB and others in chapter "3. Interfaces and Data Communication".		

» Ordering codes and functions

Accessory with additional functions, expansions

→ With these products you can **expand your DAQ board's functionality.** Use with ME series and some of them also with products of other suppliers.

	Model	Description	For ME series boards...
[45]	ME-63Xtend series	External expansion boards with relays or opto-isolation. Model versions: ME-631, ME-632, ME-633, ME-634, ME-635.	ME-FoXX ME-46xx series, ME-Jekyll ME-4610, ME-8200, ME-630, MEphisto Switch/Opto/Digi, ME-6x00, ME-1400(A), ME-1000
[49]	ME-UB series	External expansion boxes with relays or opto-isolation. Model versions: ME-UBRE, ME-UBOI, ME-UBOO	ME-FoXX ME-46xx series, ME-Jekyll ME-4610, ME-8200, ME-630, MEphisto Switch/Opto/Digi, MEphisto Scope 1 UM202, ME-6x00, ME-1400, LabJack U12, ME-RedLab 1008
[53]	ME-MUX32-M/-S	Multiplexing system for analog inputs	ME-FoXX ME-46xx series (models "i" may require an additional ME-AA4-3i), ME-Jekyll ME-4610, ME-3000, ME-2600i, ME-2000i
[56]	ME-DEMUX32	Demultiplexing system for analog outputs	ME-FoXX ME-46xx series (not for ME-LittleFoXX/ME-4650), ME-3000, ME-2600i
	ME-SIG32	Signal conditioning system for analog inputs	ME-FoXX ME-46xx series, ME-Jekyll ME-4610, ME-3000, ME-2600i, ME-2000i
[57]	ME-AA4-3(i) series	Special model on request: Connectivity adaptor; isolation adaptor	Connect existing ME-2x00i/ME-3000 applications to a ME-FoXX ME-46xx series board or connect ME-FoXX "i" opto-isolated to a ME-MUX32. Adaptor with additional functions
[58]	ME-PA series	Connectivity adaptors for various ME series boards	ME-FoXX ME-46xx series, ME-Jekyll ME-4610, ME-1400, ME-3000, ME-2600i, ME-2000i
[59]			

Housings: 1) In a DIN rail mountable card carrier; 2) In a robust metal box; 3) In a plastic mini box; 4) 19" connectivity panel; 5) OEM card

» Ordering codes and functions

Spare parts

→ These accessories are included with certain ME products. They can be ordered as spare parts, if needed.

	Model	Length	Side 1	Side 2	For ME series boards...
[18]	ME AK-D25F/S PCI	-	20-pin IDC/flat ribbon cable	25-pin D-sub female	ME-FoXX ME-46xx, ME-Jekyll ME-4610, ME-8200, ME-630, ME-6x00 for additional on-board digital I/O ports
	ME AK-D25F/S cPCI				
[19]	ME AK-D78/1400CD	1 m	78-pin D-sub male	Open ends	ME-1400C, ME-1400D
	ME AK-DDual	1 m	78-pin D-sub male	2x 9-pin D-sub male	ME-9000
	ME AK-DQuad	1 m	78-pin D-sub male	4x 9-pin D-sub male	ME-9100i, ME-9000
	ME AK-D0cto	1 m	78-pin D-sub male	8x 9-pin D-sub male	ME-9100i, ME-9000

Modular probes for classic and USB scopes, logic clips

ME-Probe series



ME-Probe LF pair and accessory

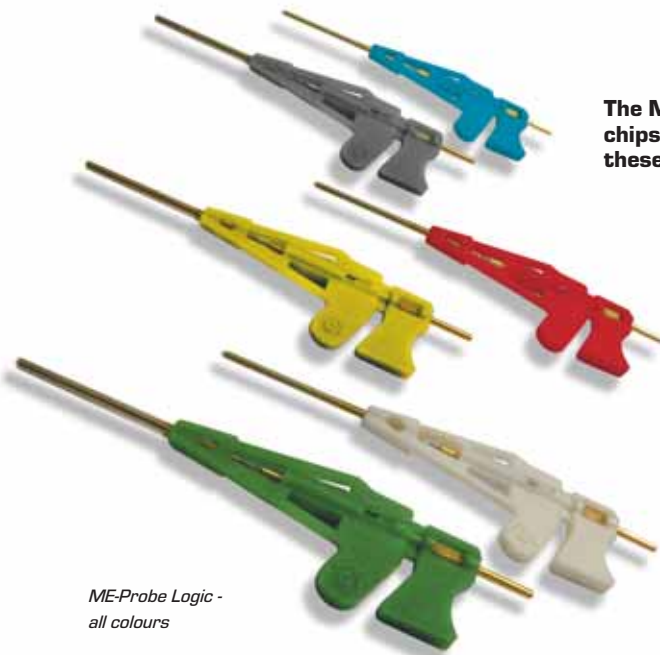
These versatile standard probes can be used with classic desktop oscilloscopes/DSOs as well as USB scopes with BNC connectors. They are modular, the accessories in the picture are included. Try and test the robust high quality at a low price!

- **Standard probes with BNC. Ideal solution for classic oscilloscopes** from various suppliers or **USB scopes** with BNC.
- **High quality at a low price. Robust and reliable.**
- 1:1/ 1:10 passive modular probe with accessories.
- Bandwidth LF: 15/150 MHz, 47/15.5 pF, 1/10 MΩ.
- Bandwidth HF: 30/300 MHz, 47/13.5 pF, 1.2 m cable.
- 600 Vp CAT I.

» Ordering codes and functions

ME-Probe LF and HF

Model	Description
ME-Probe LF pair	Modular pair of probes x1/x10, 15/150 MHz.
ME-Probe LF	See above, but single probe .
ME-Probe HF	Modular single probe x1/x10, 30/300 MHz.
Can be used for example with the following oscilloscopes:	
MEphisto Scope 1 UM202, PenScope (remove integrated tip), M520 series, automotive scopes PS3423, PS3000 series, PocketScope.	
"Classic" oscilloscopes/benchtop instruments, eg. Agilent 546xx sSeries	



ME-Probe Logic - all colours

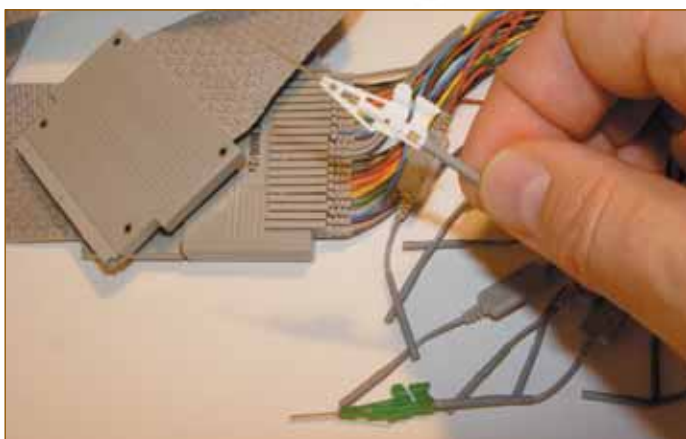
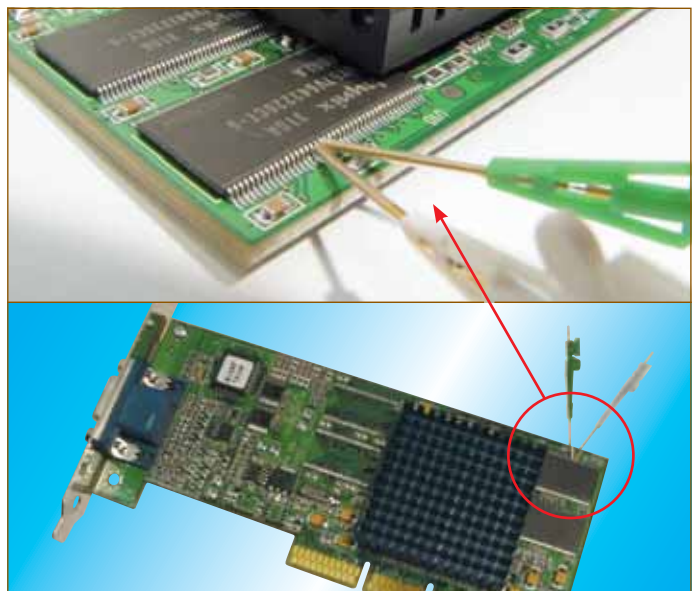
The ME-Probe series high precision logic clips can even be used for SMT chips: They are so thin, that they can reliably be fixed to SMT chips. Try these logic clips - our hardware designers liked them very much!

- High precision micro IC clips **for logic analysers**, eg. models from Agilent Technologies (former Hewlett-Packard).
- **Reliable even with SMT chips.**
- Available in various colors.

» Ordering codes

ME-Probe Logic

ME-Probe Logic Set Color	Set of 10 micro IC clips; a whole set in one color - choose: Red, yellow, blue, green, white, black
ME-Probe Logic Set 10	Set of 10 micro IC clips, 2x red, 2x yellow, 2x green, 2x blue, 1x white, 1x black

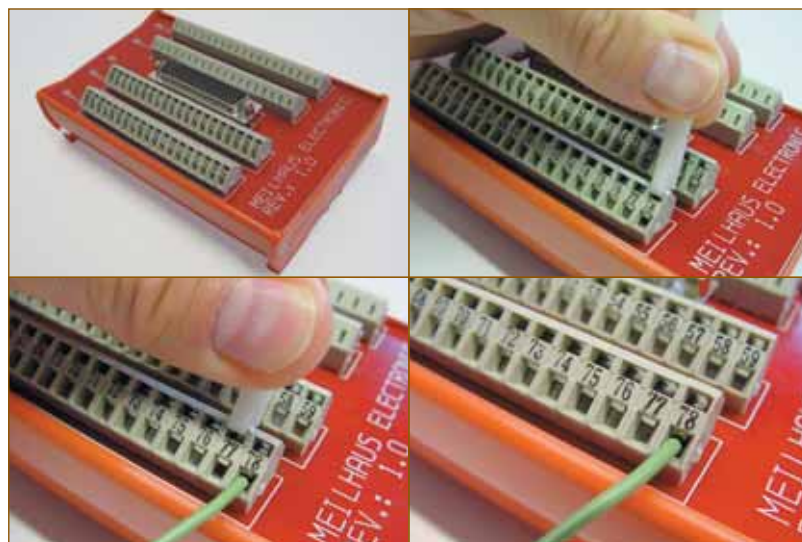


78-pin terminal block family

ME AB-D78 series

This is the new generation of connectivity for DAQ and control boards with 78-pin D-sub female connectors. Now you can choose from a variety of terminal blocks! With spring terminals or BNC, DIN rail mountable, wall mountable or as solid desktop box. For reliable longtime connectivity with high noise immunity, easy to configure and easy to change...

- Terminal blocks for **DAQ boards with 78-pin standard-D-sub** connectors: ME series and boards from other suppliers.
- Models with **pluggable spring terminals**: Easy to connect. For reliable longtime connectivity, but still flexible and easy to change, if needed.
- The models ME AB-D78M/S and /P can be used in all applications, where you have used the "classic" terminal block ME AK-D78M.
- Model ME AB-D78M/P with **prototyping area** for user circuitry, eg. analog signal conditioning.
- Special models with **reliable BNC** for 16 bit DAQ boards ME-FoXX ME-46xx, ME-Jekyll ME-4610 and ME-6x00 series.
- In a **DIN rail mountable card carrier** or in a **robust metal housing** for desktop or wall mount.
- Stackable with ME-Synapse.
- All channels which are not connected to BNC (digital I/O, counters etc.) available on pluggable spring terminals.



Lowcost terminal block for standard applications

On the classic block ME AB-D78M (picture series above) the spring terminals are fixed to the block/ not pluggable. The new deluxe blocks (pictures on the right and on the following page) **have pluggable terminals**. Easy to connect: Unplug the terminal rail, connect all measurement wires to the spring terminals and plug the rail completely wire back onto the block (see picture on the following page).

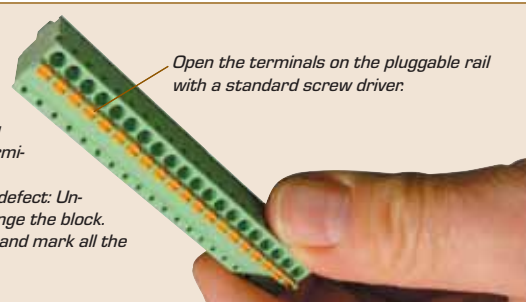
Pictures, top to bottom:
ME AB-D78M/4000-H
ME AB-D78M/6000-H
ME AB-D78M/S-H
ME AB-D78M/P-H

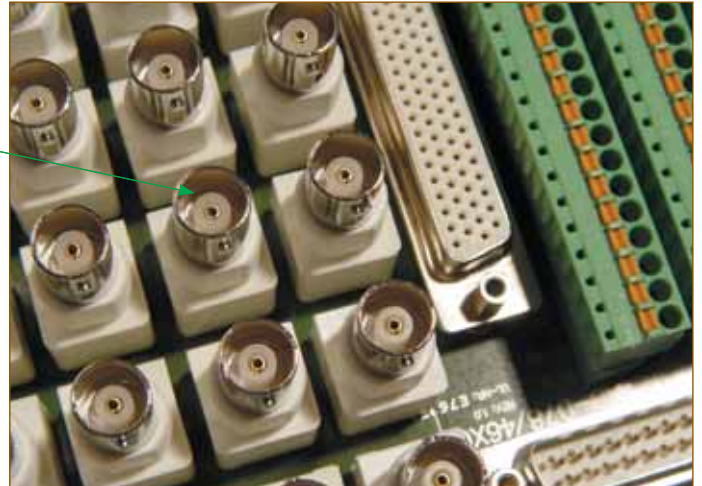
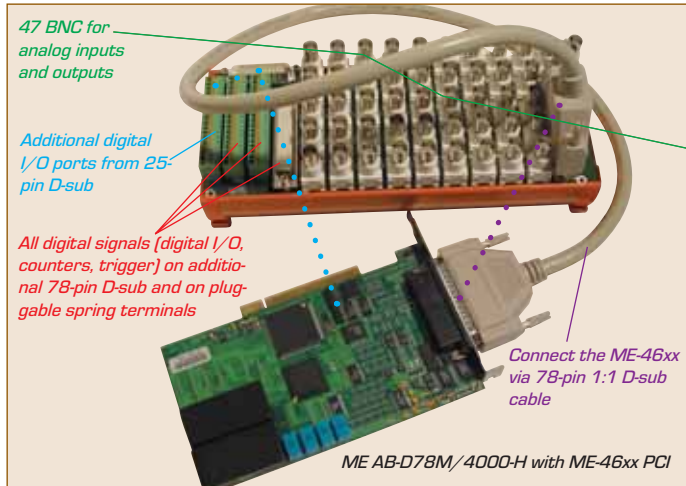
» Ordering codes and functions		78-pin terminal blocks ME AB-D78M...
Model	Description	For DAQ boards...
ME AB-D78M	"Classic" terminal block with non-pluggable spring terminals	All DAQ boards with 78-pin D-sub female: ME-8100, ME-6x00, ME-FoXX ME-46xx, ME-Jekyll ME-4610, ME-3000 Classic, ME-2600i Classic, ME-2000i Classic, ME-1600, ME-1400, ME-1000, ME-630, and MEphisto Switch/Digi
ME AB-D78M/S	Terminal block with pluggable spring terminals, desktop metal box	
ME AB-D78M/S-H	Terminal block with pluggable spring terminals, DIN rail mountable card carrier	
ME AB-D78M/P-H	Terminal block with pluggable spring terminals and prototyping area, in a DIN rail mountable card carrier	
ME AB-D78M/6000	Terminal block with BNC, pluggable spring terminals, desktop metal box	All versions of the ME-6000, ME-6100, ME-6200, ME-6300
ME AB-D78M/6000-H	Terminal block with BNC, pluggable spring terminals, DIN rail mountable card carrier	
ME AB-D78M/4000	Terminal block with BNC, pluggable spring terminals, desktop metal box	ME-Jekyll ME-4610, all versions of the ME-FoXX ME-46xx series
ME AB-D78M/4000-H	Terminal block with BNC, pluggable spring terminals, DIN rail mountable card carrier	



Benefits of the pluggable spring terminals:

1. Connect all the measurement I/O lines and finally plug the complete rail onto the terminal block.
2. Should the block ever have a defect: Unplug the whole rail and exchange the block. You don't have to disconnect and mark all the single wires



DAQ connectivity technology: Cables, terminal blocks**ME AK and ME AB series**

For reliable, flexible connectivity: The connector blocks of the ME AK-D78M series in detail

