Cables and Racks

ACCESSORIES

- High current cables
- Super flexible cables
- Low-inductance cables
- Rack systems

Accessories

If required, we supply individually assembled load cables for electronic loads.
We offer 19" racks up to 42 U so that your equipment is properly stored and well protected.

Load Cables

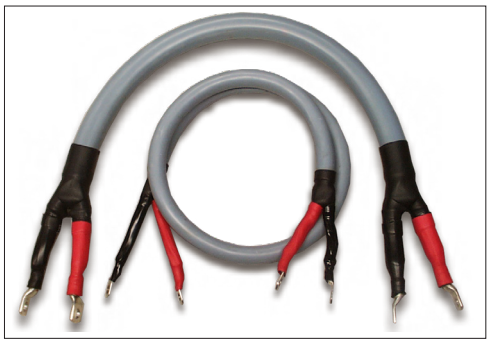
High Current Cables HKS and HKV-F Standard

Flexible and super flexible cables in different lengths, cross sections and dielectric strengths with matching ring cable lugs, wire end ferrules or plugs. Color coding on the cable lug.
Two cables are always required for load connection. For higher currents, several cables are connected in parallel.

Standard cable HKS in different cross sections with cable lugs

Super flexible cables HKV-F10A/O with wire end ferrules

Low-Inductance High Current Cables HKL-I

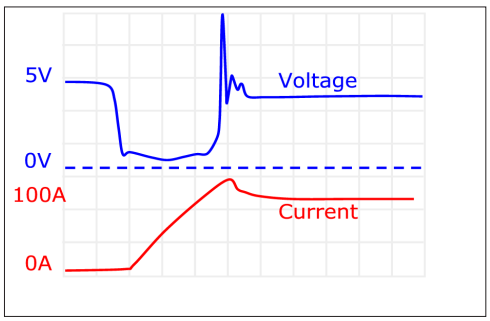


Low-inductance high current cable HKL-I

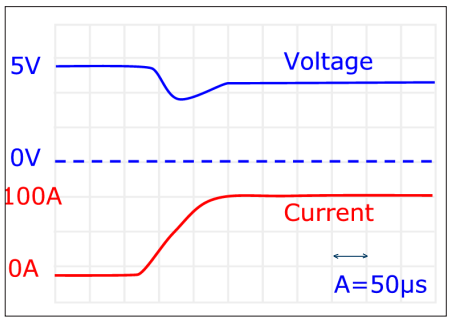
For dynamic loads with high slew rates and for long power leads.
These double cables enable the voltage of the DUT to be applied to the load input with very low inductive losses. This is the only way to achieve fast current rise times.
The maximum voltage is 300 V.

Comparison: standard cable - low inductance cable

Voltage source 5 V, load step 0 to 100 A



Voltage and current diagram with 2 m standard cable HKS-035, slack. Voltage drops as current on cable increases.
The cable determines the maximum rise speed of the current.



Voltage and current diagram with 2 m low-inductance cable HKL-I30. The voltage remains stable while the current increases at the load input.
The actual control behavior of the test unit can be analyzed.

Composition of cable name [1)]

Cable	Maximum voltage	Sepa-ration	Specialty	Cross section /mm²	Assembly 1. end	Sepa-ration	Assembly 2. end	Sepa-ration	Length /m	Sepa-ration	Color
HK	**L** max. 300 V **R** max. 600 V **T** max. 1,000 V **V** max. 1,500 V	-	**O** no **I** low-inductance **F** super flexible	**4** **6** **10** **16** **25** **etc.**	**O** no **K6** cable lug for screw M6 **K8** cable lug for screw M8 **K10** cable lug for screw M10 **K12** cable lug for screw M12 **K16** cable lug for screw M16 **A** wire end ferrule **B4** banana plug 4 mm **Con*x*** connector x	/	**O** no **K6** cable lug for screw M6 **K8** cable lug for screw M8 **K10** cable lug for screw M10 **K12** cable lug for screw M12 **K16** cable lug for screw M16 **A** wire end ferrule **B4** banana plug 4 mm **Con*x*** connector x	-	**l**	-	**rd** (red) **bk** (black)

Table 1

If you need a cable not listed in table 2, you can use table 1 to request a special cable. We'll help you - just ask us!

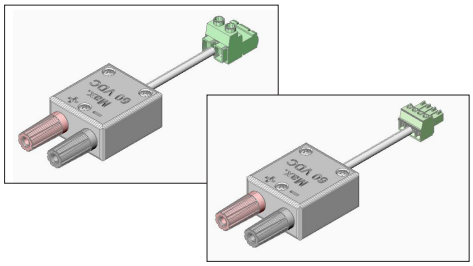
Data of some high current cables (examples) [2)]

Cable (Order number)	Cross-section	Current	Voltage	L [3)]	R [3)]	Assembled for
HKL-I12K10/K10-1	2 x 12 mm²	80 A	300 V	0.065 µH	3.79 mΩ	Ø 10
HKL-I30K12/K12-1	2 x 30 mm²	130 A	300 V	0.065 µH	1.82 mΩ	Ø 12
HKR-O70K12/K12-1-rd	70 mm²	340 A	600 V	0,56 µH	0,68 mΩ	Ø 12
HKV-O16K10/O-1-rd	16 mm²	100 A	1,500 V	0.64 µH	3.02 mΩ	Ø 10
HKV-O70K12/O-1-rd	70 mm²	250 A	1,500 V	0.52 µH	0.68 mΩ	Ø 12
HKV-F16Con/O-1-rd	16 mm²	100 A	1,500 V	0.64 µH	3.02 mΩ	SBUS6-125

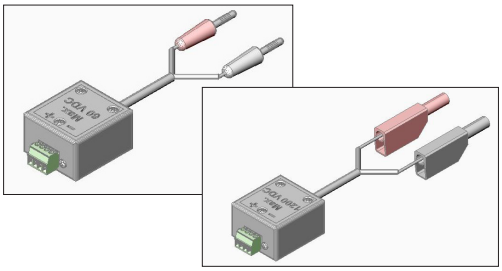
Table 2

Adapter for Sense Terminals

see also series-related accessories

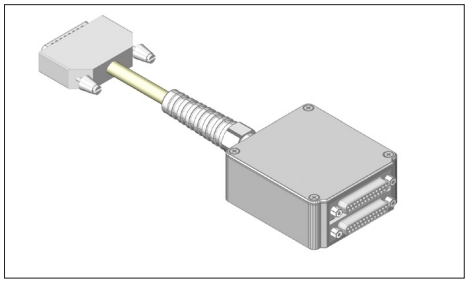


Sense adapter from 2 or 4pole Phoenix (sense) to 4 mm binding posts or safety sockets
SENSADAPT/PH2/POK/60V for 2pole sense, max. 60 V
SENSADAPT/PH2/POK/1200V for max. 1200 V
SENSADAPT/PH4/POK/60V for 4pole sense, max. 60 V
SENSADAPT/PH4/POK/1200V for max. 1200 V



Sense adapter from 4 mm banana or safety plugs to 2 or 4pole Phoenix (sense)
SENSADAPT/4BAN/PH2/60V for 2pole sense, max. 60 V
SENSADAPT/4BAN/PH2/1200V for max. 1200 V
SENSADAPT/4BAN/PH4/60V for 2pole sense, max. 60 V
SENSADAPT/4BAN/PH4/1200V for max. 1200 V

I/O Port Doubler



In order to be able to access measuring or status lines when using H&H master-slave cables, the I/O port doubler is plugged onto the I/O port. This provides a second parallel-connected female connector.

1. Not all possible combinations of cable names are actually available.
2. Other cable combinations not listed in this table can be supplied.
3. The specified values for L and R relate to two parallel cables per meter.

You will find further series-related accessories in this catalog with the corresponding series.

19" Racks

The installation of the electronic loads requires special racks, designed for a sufficient air outlet of the heated exhaust air. The H&H racks are equipped with large air vents on the rear so that the exhaust air can pass almost unhindered.

The rear door is shortened to feed the connection cables. The connecting cables of the mains supply are led through flexible foam lips.
Each cabinet contains a socket strip for the mains connection of the devices.

Model (Order number)	Installation height front	Air outlet rear	Dimensions H x W x D (H incl. crane lugs and castors)	Installation depth
Rack 33	33 U	26 U	ca. 1750 x 600 x 800 mm	675 mm
Rack 37	37 U	30 U	ca. 1950 x 600 x 800 mm	675 mm
Rack 42	42 U	35 U	ca. 2150 x 600 x 800 mm	675 mm

Front/side view 19" rack with 42 U

Side/rear view 19" rack with 42 U