

DATA SHEET

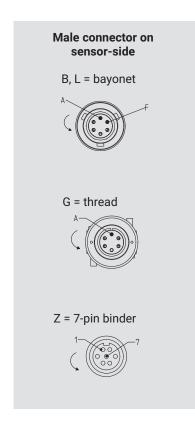
K-CAB-F Connection cable for HBK force transducer

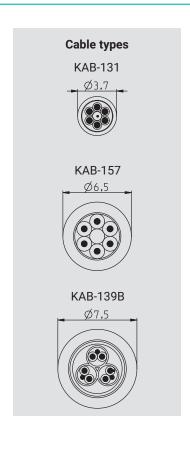
SPECIAL FEATURES

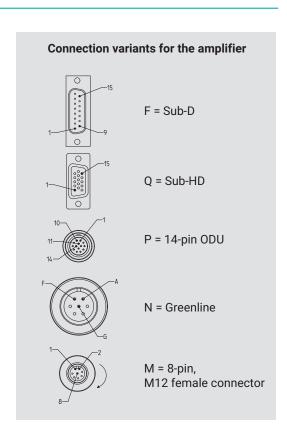
- Sensor cable for connecting HBK force transducers for various applications
- · Various lengths available
- Optional plug mounting for direct connection to HBK amplifier
- Tried and tested quality that includes electric properties required for strain gage measurements (high symmetry and low capacitance)



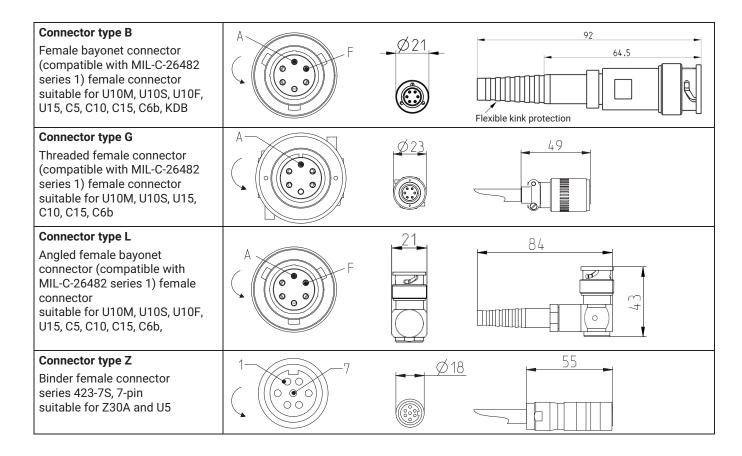
CABLE CONFIGURATION OPTIONS





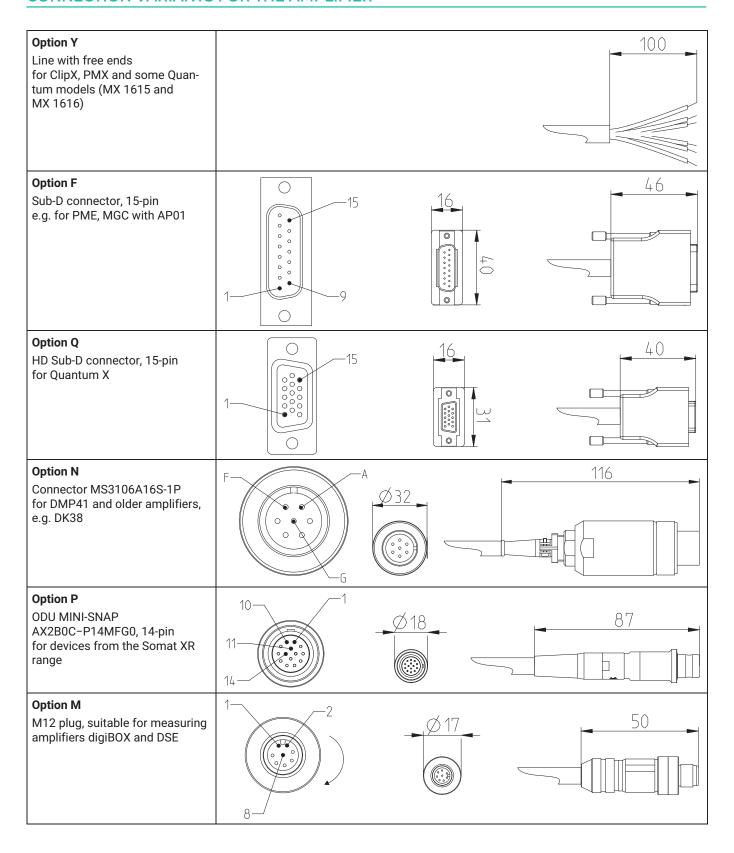


CONNECTOR TYPES ON SENSOR-SIDE



Туре	KAB131	KAB157	KAB139B
	Ø3.7	Ø6,5	Ø7.5
Description and design			
Fields of application	Highly flexible measuring lead with minimal outside diameter, suitable for mobile use with low force shunt, e.g. drag chains. Lightweight. Highly resistant to many oils and chemicals. Suitable for use outdoors. Only suitable for certain highprecision measurements and only recommended if very low forces are to be measured at stable temperatures and low carrier frequencies. We recommend consulting HBK.	Robust measuring cable that is temperature and chemical resistant and has excellent metrological properties. Large temperature range, suitable for use outdoors.	Double shielded measuring lead for highly accurate measurements. Excellent capacitive symmetry. Suitable for large distances. Wires shielded in pairs. Additional copper braid for overall shielding. Recommended in combination with reference force transducers; not suitable for drag chains and applications where the cable is moved continuously. Cannot be combined with ODU MINI-SNAP (plug option P) or female connector M12 (option M)
Cable construction	Six wires stranded around a filler; spiral shield with copper braided wire	Six wires stranded around a filler; braided shield with copper braided wire	Three twisted pairs of wires fitted with foil shield and drain wire; braided shield with copper braided wire.
Number of wires and cross-section	6 x 0.08 mm ²	6 x 0.25 mm ²	3 x 2 x 0.14 mm ²
Outside diameter	3.8 ± 0.2 mm	6.5 ± 0.2 mm	7.5 ± 0.3 mm
Material/color of outer sheath	PUR/black	TPE/gray	PVC/gray
Characteristic mechanical values	s		
Bending radius, static Bending radius, moveable	22 mm 50 mm	37 mm 75 mm	75 mm Not suitable for continuous movement
Temperature range			
moving	-50 +80 °C	-50 +85 °C	-5 +50 °C
stationary	-50 +80 °C	-50 +85 °C	-30 +70 °C
Rated electrical output			
Cable resistance per wire	280 Ω/km	78 Ω/km	140 Ω/km
General information	T		
Halogen-free	no	yes	no
Flame-retardant as per IEC 60322-2-2	no	yes	yes
UV resistance	yes	yes	no
Resistance	A lot of machine oils, oil emulsions, saline water, seawater, diluted lye, ozone	A lot of machine oils, oil emulsions, seawater, diluted lye, ozone	A lot of lyes and acids. Salt water

CONNECTION VARIANTS FOR THE AMPLIFIER



Male connector on sensor-side	Cable length	Cable type	Amplifier connection
Female bayonet connector, straight design	Cable length 3 m	Highly flexible measuring lead with small outside diameter	Free ends
В	03M0	0131	Υ
Threaded female connector	Cable length 6 m	Standard cable with increased temperature range	15-pin D-SUB connector
G	06M0	0157	F
Binder bayonet female connector, angled design	Cable length 10 m	Double shielded line for high- precision measurements	15-pin HD-SUB connector
L	10M0	139B	Q
Binder female connector	Cable length 20 m		Male connector MS3106A16S-1P
z	20M0		N
			ODU-Mini Snap connector
			P
			M12 connector
			M

Ordering example

	_		04.57	_
K-CAB-F-	B-	03M0-	015/-	F

The example in the order is a cable with a straight bayonet connector, 3 m long, robust standard measuring lead and soldered D-Sub connector, 15-pin, 2-rows