

# HIGH CURRENT PROBES

## HC04

**High current probe up to 300 A with coaxial design and temperature sensor**

**Centers (mm/mil)** 25,0 / 984

**Current (Circular)** 300 A

**Current (Internal)** 2,0 A

**R typ (circular/internal)** <1 mOhm

**Temperature** -40°C...+200°C (H)

### Spring Force (cN ±20%)

	Preload	Nominal
Sensor	60	150
Internal cont.	70	200
Circular cont.	1000	7000

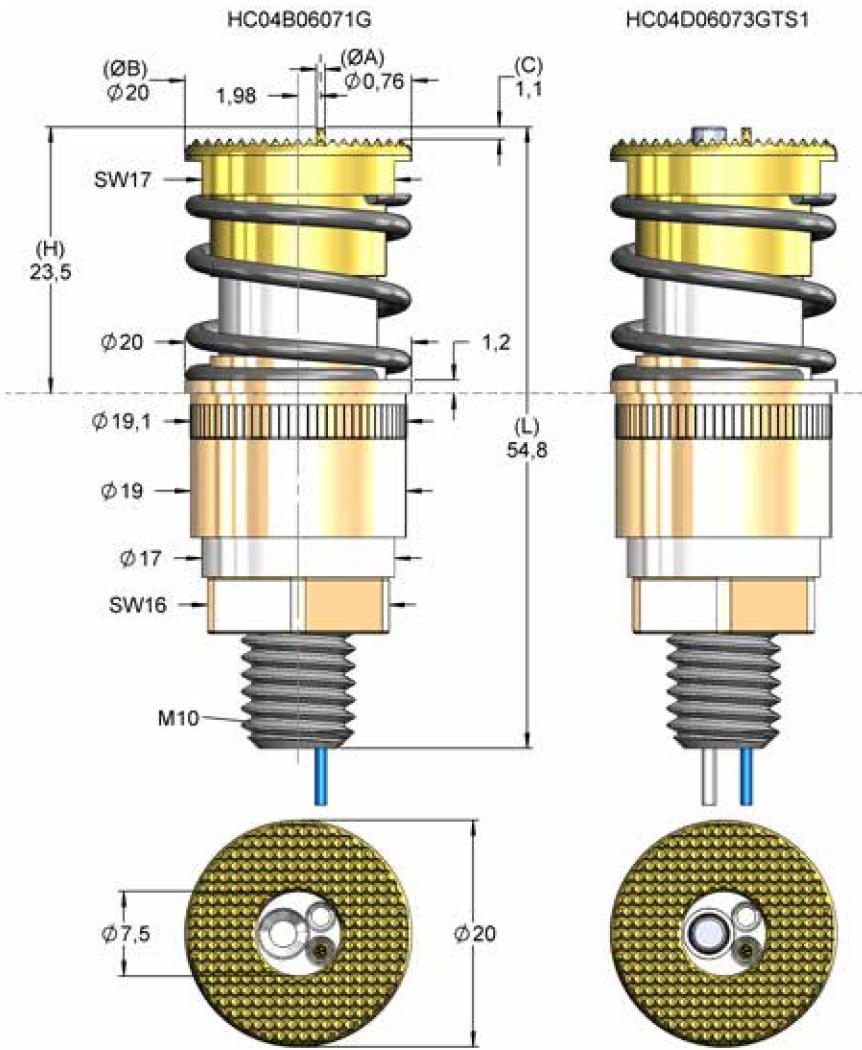
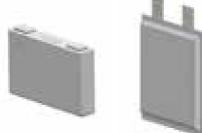
### Travel (mm)

Version	Nominal	Maximum
Internal cont.	4,0	5,0
Circular cont.	5,6	7,0
Thread (M)		10,0
Wrench size		17,0 / 16,0
Pointing accuracy		< 1°

### Materials and Plating

Internal cont.	BeCu, gold plated
Circular cont.	BeCu, gold plated
Barrel	Brass, unplated
Spring Internal cont.	Stainless steel, unplated
Spring Circular cont.	Stainless steel, unplated

### Suitable for:



### Function:

The HC04 adapts to an inclination of the Contact surface of up to 1 degree. A ring eye or cable lug can be fixed to the M10 thread by a lock nut (max. torque 15 Ncm). Higher spring forces on request. Connection recommendation Cable diameter 120 mm<sup>2</sup>.

Order Code	Tip Style	Cooling	Sense	Sense	Temperature Sensor	Mounting with
HC04A06070G		-	-	-	-	M10
HC04B06071G		-	F562 KF21	-	-	M10
HC04B06071GK		x	F562 KF21	-	-	M10
HC04C06072GTS1		-	-	-	PT100	M10
HC04C06072GTS2		-	-	-	PT1000	M10
HC04C06072GTS3		-	-	-	NTC	M10
HC04C06072GTS4		-	-	-	Typ-K	M10
HC04D06073GTS1		-	F562 KF21	-	PT100	M10
HC04D06073GTS2		-	F562 KF21	-	PT1000	M10
HC04D06073GTS3		-	F562 KF21	-	NTC	M10
HC04D06073GTS4		-	F562 KF21	-	Typ-K	M10
HC04E06073G		-	F562 KF21	F562 KF21	-	M10

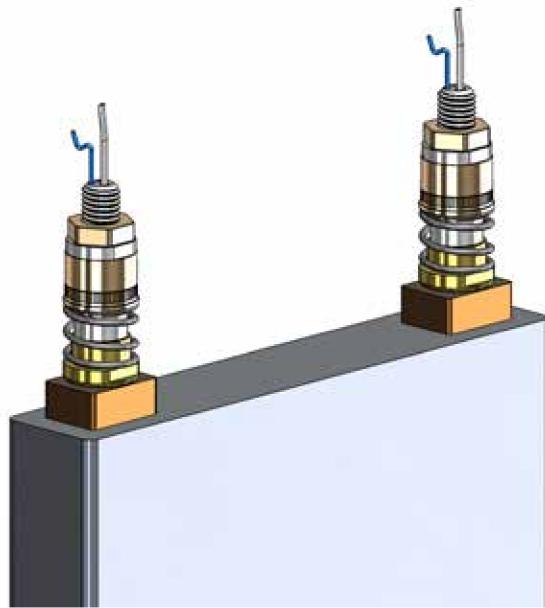
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**Example of contacting prismatic cell:**



### Function:

Typical application of the coaxial probes is the contacting of prismatic or pouch cells in battery production and test applications, but also various other high current applications.

### Advantages:

- Continuous current carrying capacity up to 300 A in 25 mm pitch
- Aggressive and wobbly contact plunger for current path ensures optimum contact on typical LIB cell arresters
- Equipped with spring-loaded sense contact probe for the voltage path of the four-pole measurement
- Second additional sense contact probe (e.g. EIS measurement = Electrochemical-Impedance-Spectroscopy) configurable
- Integrated spring-loaded temperature sensor (4 possible types available) directly at the point of contact
- Low heating of less than 60K at full load
- Connection can be configured for additional cooling option for contacting and contact point in case of a sense
- Electrical connections via M10 thread
- Mechanical fastening via press sleeve

