

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)	<1/20 mOhm
Temperature	-45°C...+200°C (H)

Spring Force (cN ±20%)

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

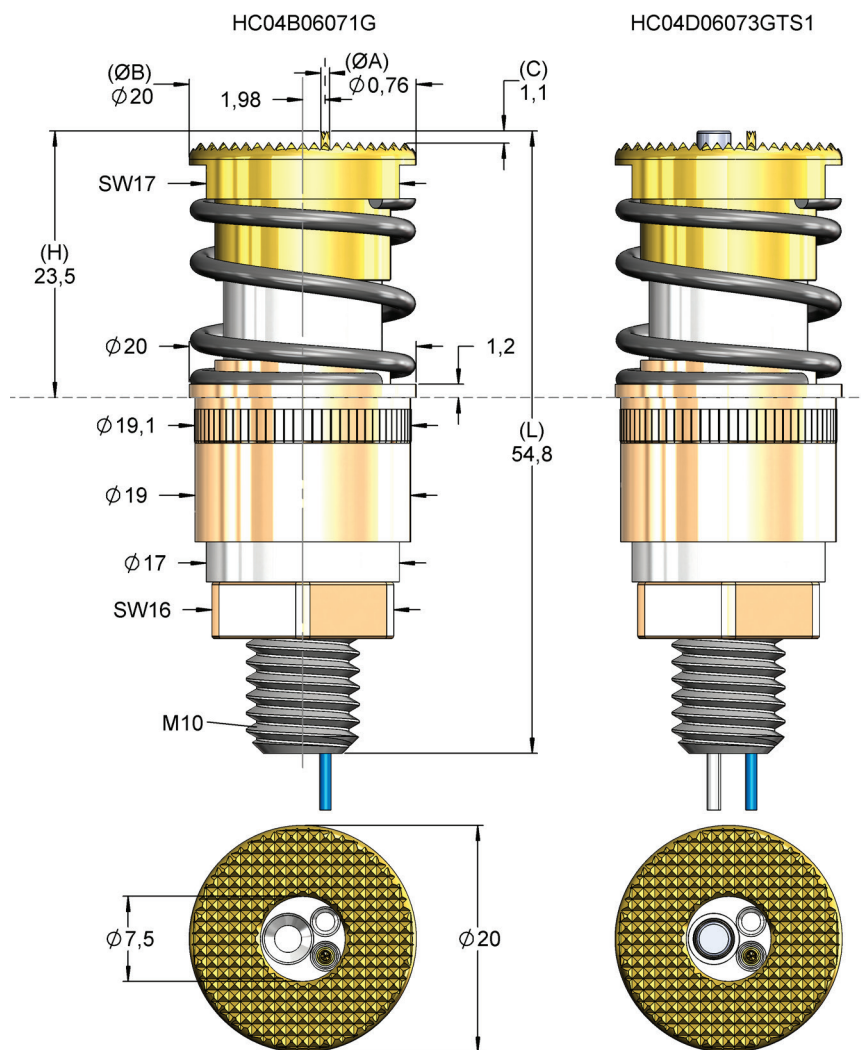
Travel (mm)

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. Recommended cable cross-section: 120 mm².

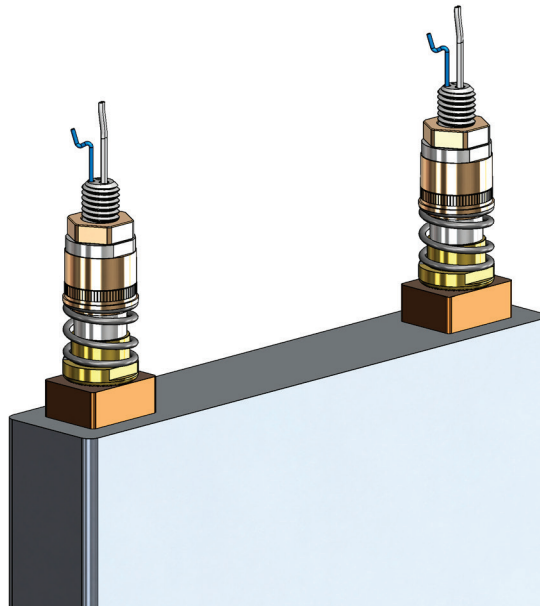
Order Code	Description	Tip Style	Cooling	Sense	Sense	Temp.-Sensor	Mounting with
1033973	HC04A06070G		-	-	-	-	M10
1033974	HC04B06071G		-	F562 KF21	-	-	M10
1033975	HC04B06071GK		x	F562 KF21	-	-	M10
1034015	HC04C06072GTS1		-	-	-	PT100	M10
1034016	HC04C06072GTS2		-	-	-	PT1000	M10
1034017	HC04C06072GTS3		-	-	-	NTC	M10
1034018	HC04C06072GTS4		-	-	-	Typ-K	M10
1033982	HC04D06073GTS1		-	F562 KF21	-	PT100	M10
1033983	HC04D06073GTS2		-	F562 KF21	-	PT1000	M10
1033984	HC04D06073GTS3		-	F562 KF21	-	NTC	M10
1033985	HC04D06073GTS4		-	F562 KF21	-	Typ-K	M10
1033986	HC04E06073G		-	F562 KF21	F562 KF21	-	M10
1083894	HC04F06075GTS4		-	F562 KF21	F562 KF21	Typ-K	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

