

8-way Power-Data-Battery Interface

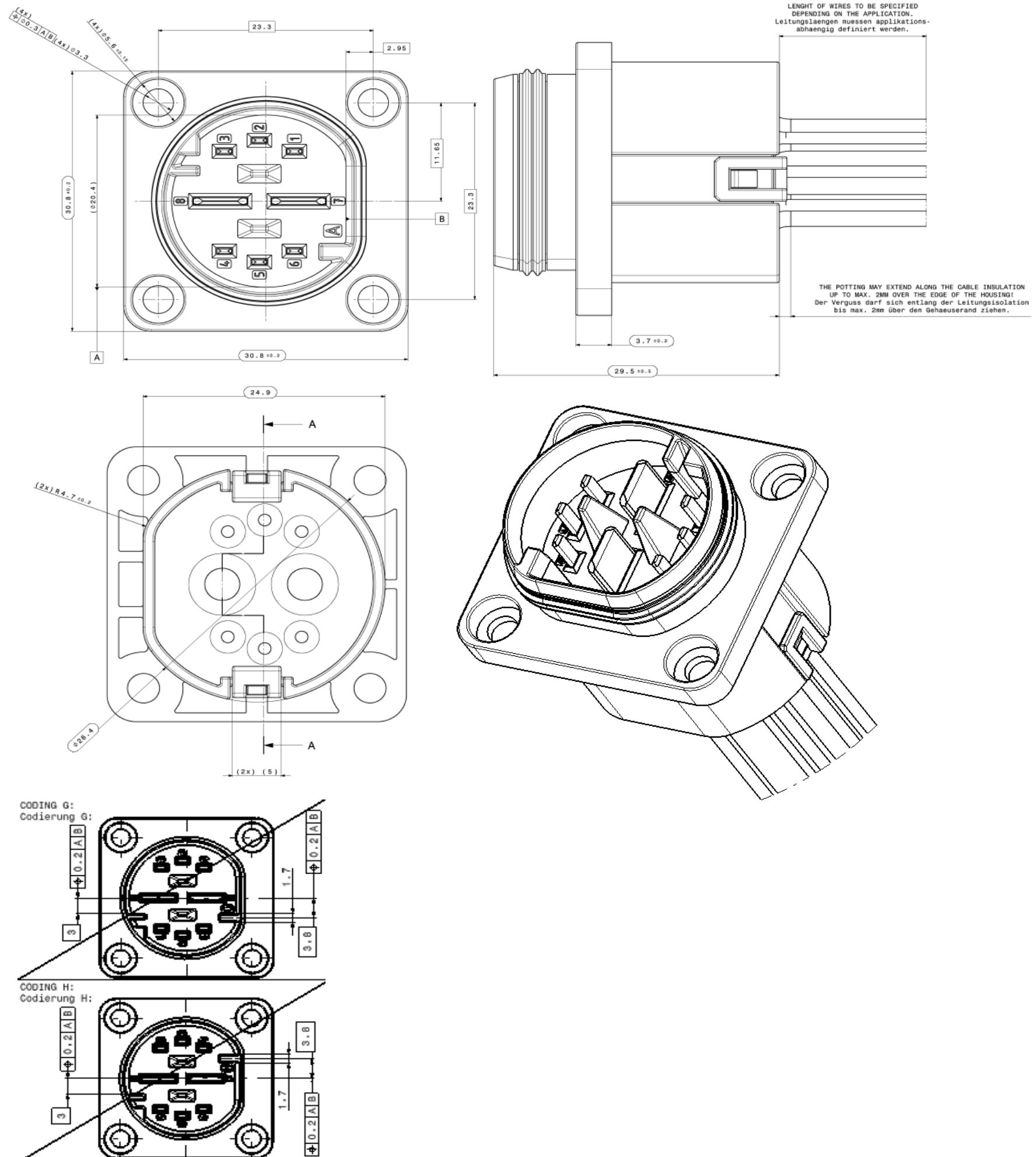


General Characteristics			
Product description	This 8-pin interface was designed for a one-path system for ebikes with pivoting intube or frame batteries. The interface is used to connect the battery to the engine and the charger. It includes a plug (socket) built into the battery, a plug (pin) that connects the power of the battery to the various consumers (ABS, lights, engine, ...) and a plug (pin) that allows the battery to be charged when plugged in and out.		
Basic standards		DIN EN 61984 DIN EN 50604-1 IEC 62133 partly UN 38.8 DIN EN 60335-1 DIN EN 60335-29 cULus	Valide for male and female side Valide for female side Valide for female side Valide for female side Valide for male side Valide for male side upon request
Approval / Conformity	Standards	Testing standard/ requirement	
Protection class not mated		IEC 60529/ IP67	
Protection class mated		IEC 60529/ IP67	
Overvoltage categorie		DIN EN 60664-1/ II	
Pollution degree		DIN EN 60664-1/ 3	
Vibration	DIN EN 50604-1	7-200Hz 3h/Axis	Valide for female side
Shock resistance	DIN EN 50604-1	150g 3 shocks/direction	Valide for female side
Environmental Simulation	DIN EN 61984	+85/168h and -40/48h	
Corrosion test	DIN EN 61984	ISO 6988/ 24h	
Coastal climate load		DIN EN 60068-2-52/ Cyclic, Severity 3	
Glow Wire Flammability Testing	DIN EN 60335-1	DIN EN 60695-2-12 GWFI>850°C and GWIT>775°C	
Temprature rise	DIN EN 60335-1	10,1/3h uninterrupted	Grip and Cable (see diagrams)
Housing influence on the derating	DIN EN 61984	DIN EN 605012-5-2	see diagrams
Proof voltage	DIN EN 60335-1	3000V	
Ball pressure test	DIN EN 60335-1	DIN EN 60695-10-2/125°C	Material certified for ≥200°C
Electrical Characteristics			
Rated voltage Power Pins		36V	DC
Rated voltage Signal Pins		12V	DC
max. current load Power Pins	correlating to wire cross section	30A	
max. current load Signal Pins		8A	
Mechanical Characteristics			
Contact System Power Pins		2x TE Standard Power Timer (SPT)	pre contacting
Contact System Signal Pins		6x Micro Timer II (MT-II)	
Power pin wire cross section		1 / 2.5 / 4mm²	
Signal pin wire cross section		0.25 / 0.35 / 0.5 / 0.75mm²	
Codings		G / H	
Twist protection		yes	
Material contact carriers		PA66+PA6 GF25	
Material potting		Fermadur B5	
Mating cycle frequency		≥ 1000	
Connector locking		by force	no mechanical locking
Mating force		ca.22N	
Mounting screw distance		23.3 x 23.3mm	
Mounting torque screws (plastics)		1,1Nm	
Mounting torque screws (aluminium)		1,3Nm	
min. storage temperature		-20°C	
max. storage temperature		60°C	
min. operating temperature		-25°C	
max. operating temperature		85°C	

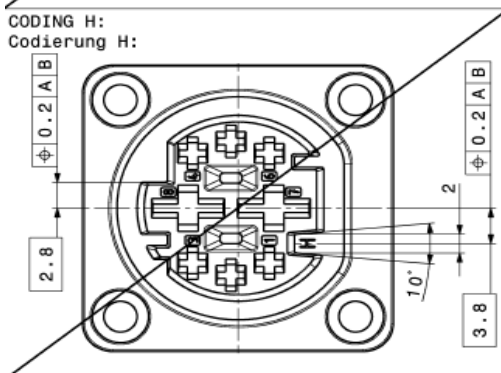
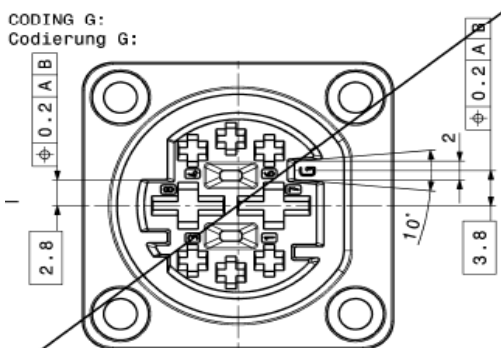
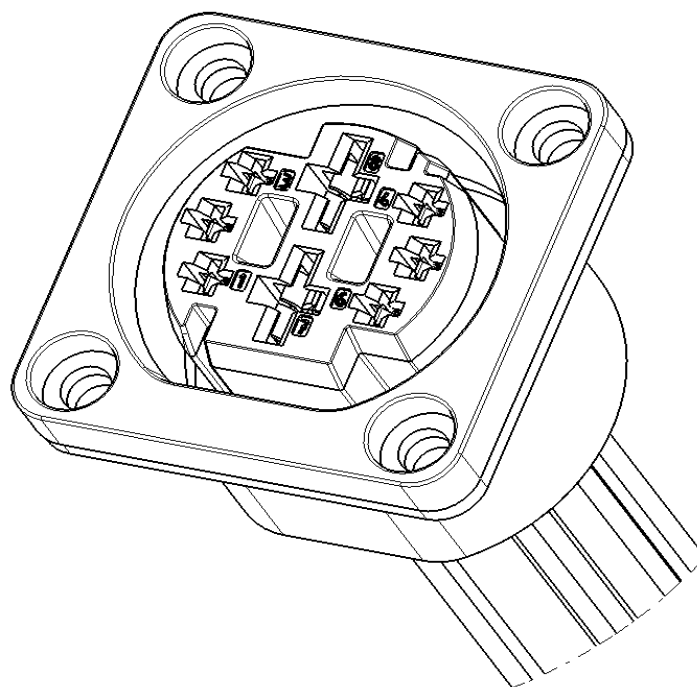
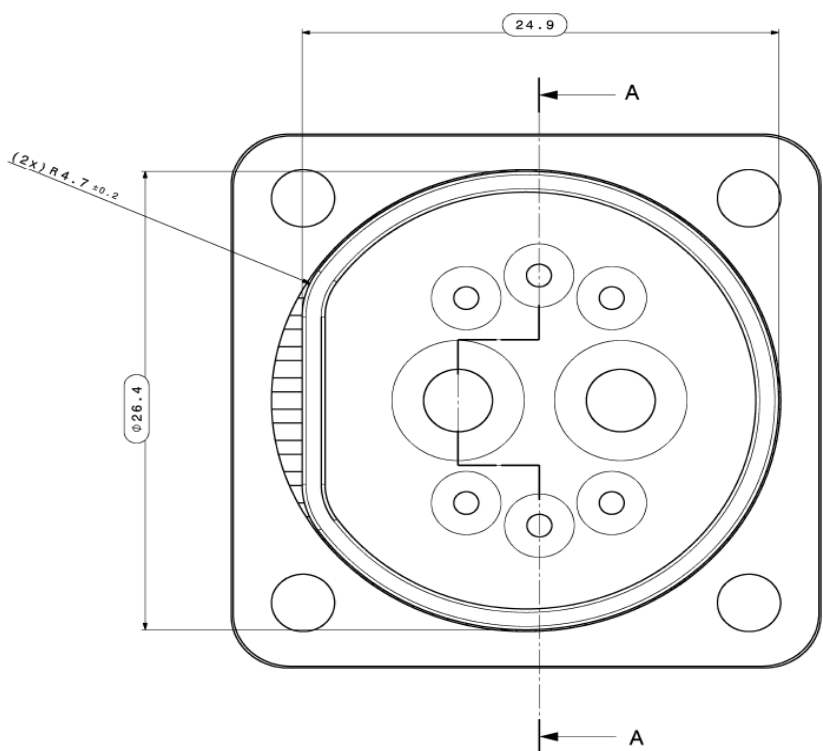
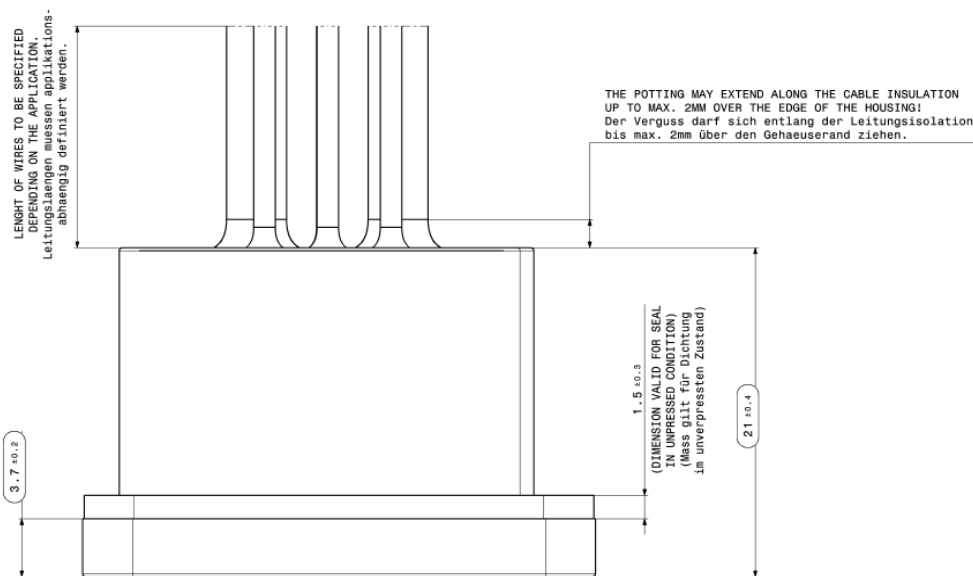
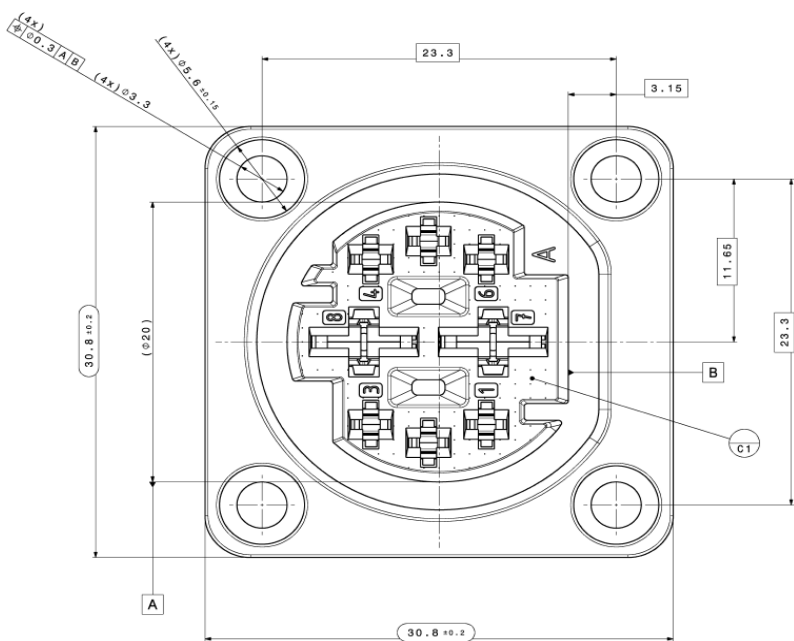
Additional Information

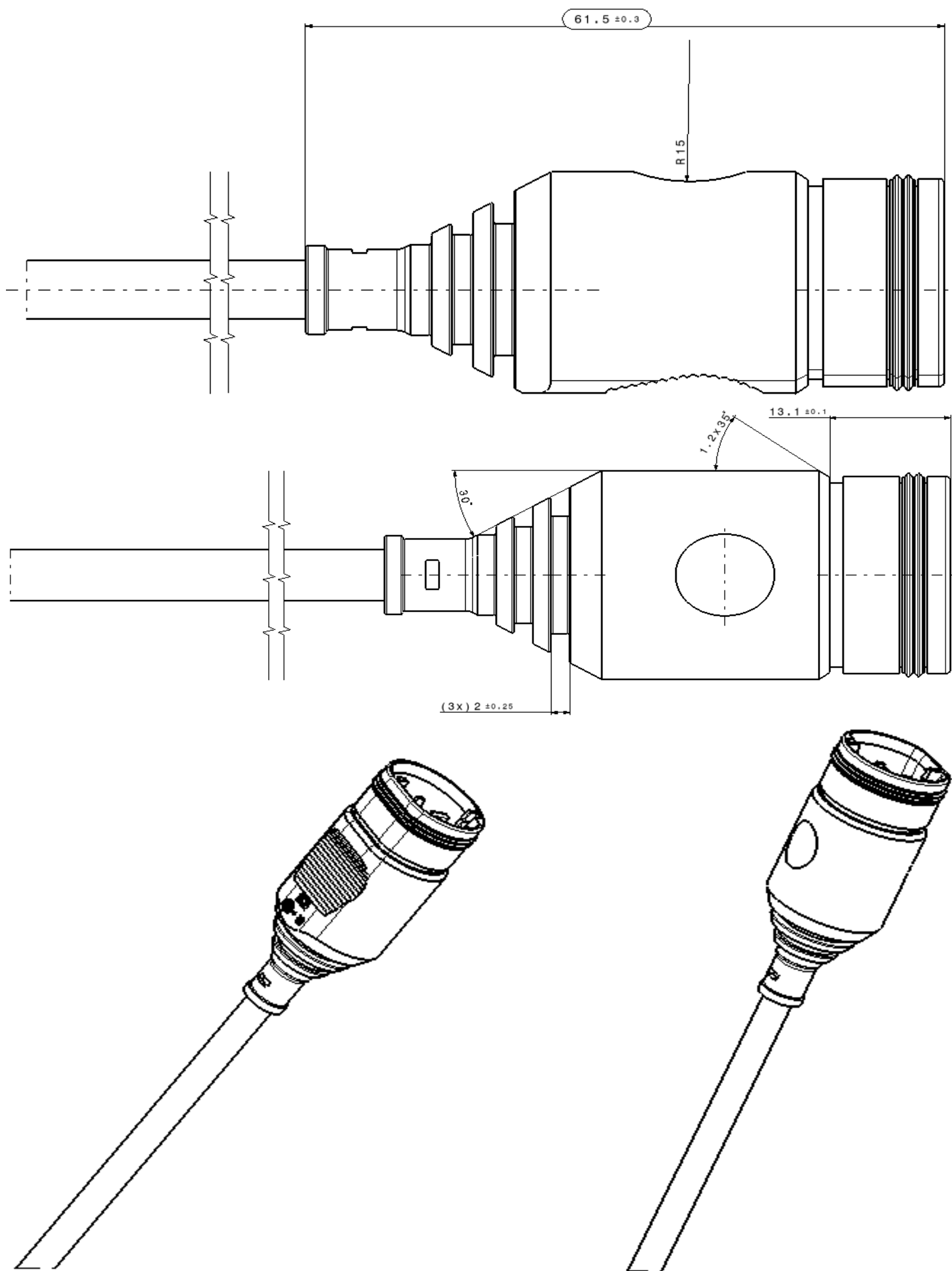
Drawings:

-BUILT IN CONNECTOR (male)



-BUILT IN CONNECTOR(female)





Diagrams:

Housing influence on the derating 2,5mm²

