5 way Battery interface

With protection against contact

BY HIRSCHMANN AUTOMOTIVE

General Characteristics		
Product describtion	The interface is used to connect a battery to motor or battery to a charger. It includes a built-in connector (female) to be mounted on the battery and a wiring harness (male) which maps the connection to the charger and a wiring harness which maps the connection to the motor.	
Basic standards	DIN EN 61984	Valide for male and female side
	DIN EN 50604-1	Valide for female side
	IEC 62133	Valide for female side
	partly UN 38.8	Valide for female side
	DIN EN 60335-1	Valide for male side
	DIN EN 60335-29	Valide for male side
	DIN SPEC 79009	Valide for male and female side
	cULus	upon request

Approval / Conformity	Standards	Testing standard/ requirement	
Protection class not mated		IEC 60529/ IP67	
Protection class mated		IEC 60529/ IP54	
Overvoltage categorie		DIN EN 60664-1/ II	
Pollution degree		DIN EN 60664-1/ 3	
Protection against contact with live Parts	DIN EN 60335-1	IEC 60529 / IPXXB	For Variants >42V
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	excluding wires and cables
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	
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

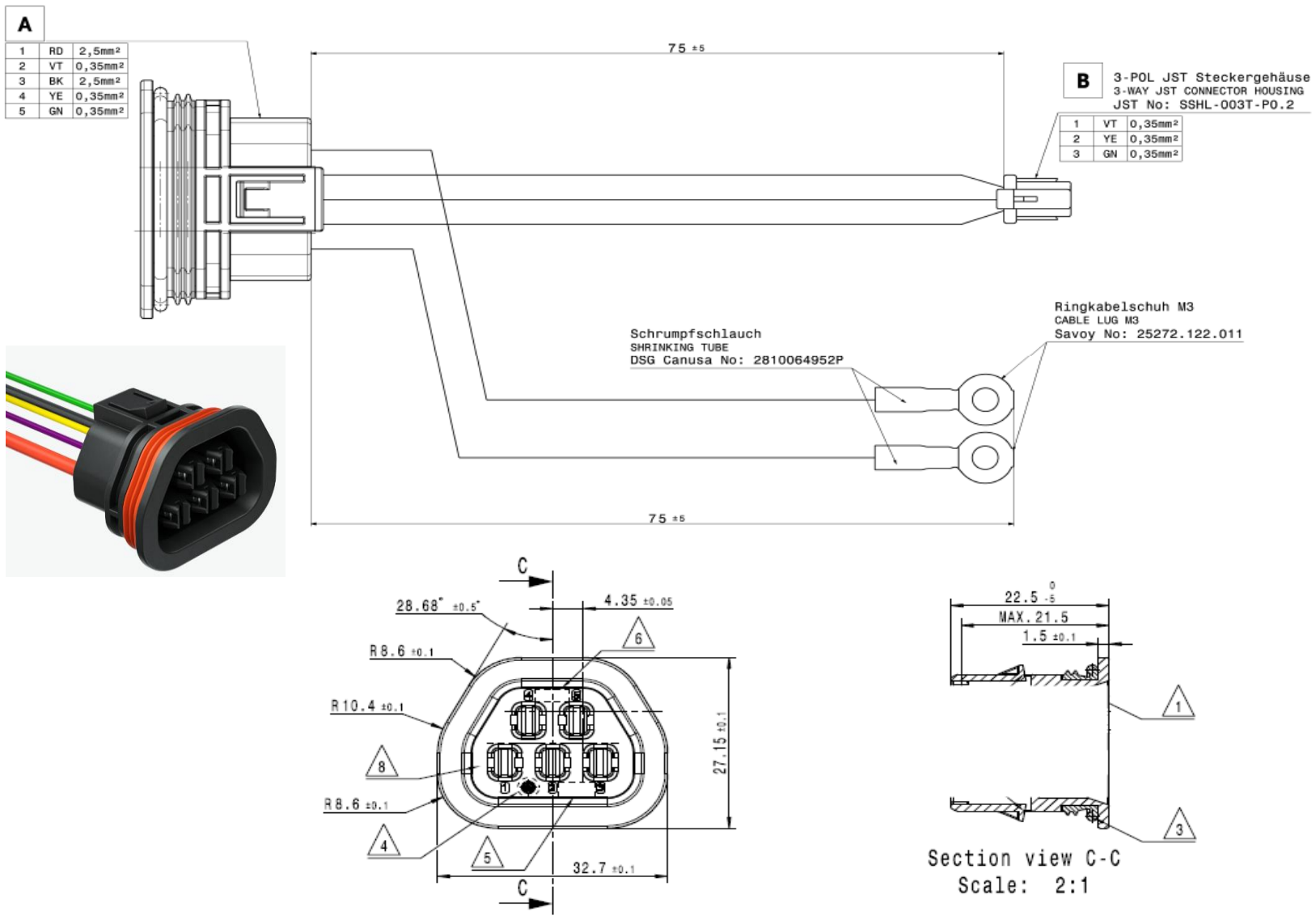
Electrical Characteristics			
Rated voltage Power Pins		59V	DC
Rated voltage Signal Pins		59V	DC
max. current load Power Pins	correlating to wire cross section	22A	28A peak
max. current load Signal Pins		3A	

Mechanical Characteristics		
Contact System Power Pins	2x spring contact 2,8mm	pre contacting
Contact System Signal Pins	2x spring contact 2,8mm	
Power pin wire cross section	2,5mm²	
Signal pin wire cross section	0,35mm²	
Codings	only polarisation	
Twist protection	yes	
Material contact carriers	PA66+PA6 GF25	
Material potting	Fermadur VP 10	
Material overmoulding	TPU Shore A85	
Pull relief	yes	Overmolding or potting
Mating cycle frequency	≥ 1000	
Connector locking	by force	no mechanical locking
Mating force	ca.22N	
min. storage temperature	-20°C	
max. storage temperature	60°C	
min. operating temperature	-20°C	
max. operating temperature	100°C	

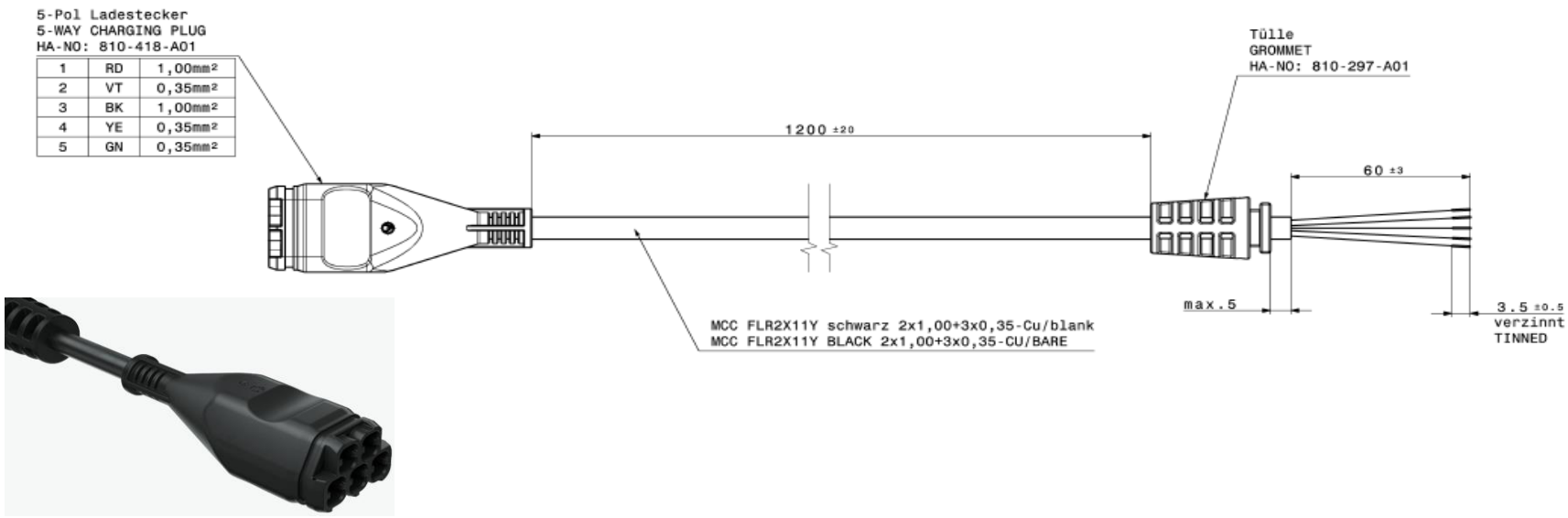
Additional Information

Drawings:

907-498-001 Built-in Connector



907-499-001 Charging harness



907-384-001 Motor harness