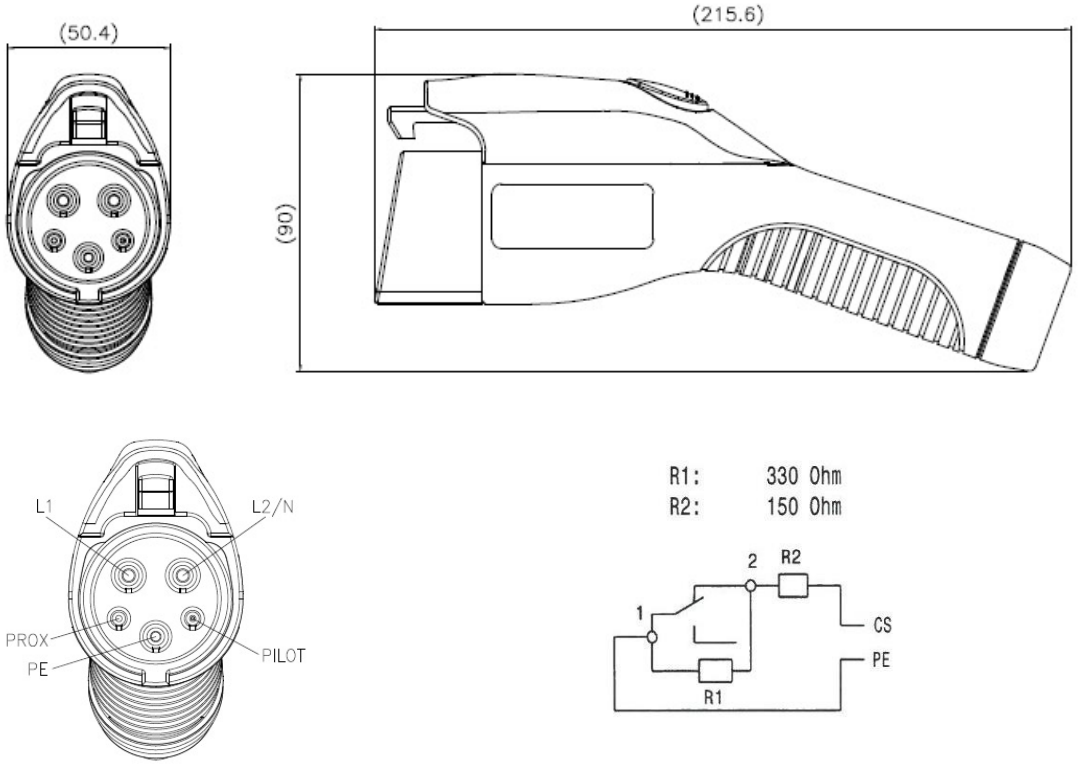
IEC Type 1
AC Charging Cable

PRODUCT DEFINITION		
Charging Standard	**SAE:** SAE J1772 **IEC:** IEC 62196-2, Type 1	
Approval	TÜV	
DIMENSIONS CHARGING CONNECTOR		
Width	50.4 mm	
Height	90 mm	
Depth	215.6 mm	
Cable Length	On Request	
AMBIENT CONDITIONS		
Ambient Temperature (Operation)	-30°C to +50°C	
Ambient Temperature (Storage / Transport)	-40°C to +80°C	
Max. Altitude	2,500 m (above sea level)	
Degree of Protection (Unmated)	IP67	
Degree of Protection (Mated)	IP44	
Degree of Protection (Protective Cap)	IP54	
ELECTRICAL PROPERTIES		
Number of Phases	1	
Rated Voltage for Power Contacts	250V AC	
Rated Current for Power Contacts	16A	32A
Maximum Charging Power	4 kW	8 kW
Number of Power Contacts	3 (L1, N, PE)	
Rated Voltage for Signal Contacts	30V AC	
Number of Signal Contacts	2 (CP, PP)	
Note on the Connection Method	Crimp Termination (cannot be disconnected)	
Resistor Coding (between PE and CS)	480 Ω (lever operated) 150 Ω (lever not operated)	
MECHANICAL PROPERTIES		
Mating Cycles	> 10,000	
Insertion Force	< 75 N	
Withdrawal	< 75 N	

IEC TYPE 1 MECHANICAL DRAWING



MATERIAL		DESIGN	
Material Housing / Handle Area	Plastic	**Housing / Handle Area Colour**	Black
Material Mating Face	Plastic	**Mating Face / Locking Lever Colour**	Black
Material Protective Cap	Soft Plastic	**Protective Cap Colour**	Black
Flammability Rating	V-0	**Housing with Customer Logo**	On Request
Material Contacts	Cu-Alloy		
Plating	Silver Plating		

CABLE			
AMPERAGE	**CABLE STRUCTURE**	**CABLE O.D.**	**PHASE**
16A	3 x 2.5 mm² + 1 x 0.5 mm²	10.5 mm	1 Phase
32A	3 x 6.0 mm² + 1 x 0.5 mm²	12.8 mm	

CABLE RESISTANCE AT 20°C		
6.0 mm²	**2.5 mm²**	**0.5 mm²**
≤ 3.30 Ω/km	≤ 7.98 Ω/km	≤ 39.00 Ω/km

Cable Standard	EN50620
Type of Conductor	Straight (or more type on request)
Outer Sheath Material	TPU Compound
Outer Sheath Colour	On Request

ENVIRONMENTAL PRODUCT COMPLIANCE	
EU REACH	(EC) 1907 / 2006, SVHC Compliant
China RoHS	Compliant
EU RoHS	2011 / 65 / EU

Contact us at **sales@volex.com**
for assistance in finding the right solution for your needs.