

		AGRO AG		Document Number I00175-17-2-EN
Unit R&D	Created by David Häfeli	Version F	Status Released	Document Type Technical specifications
Status Public	Created 20.02.2023	Last Modification 05.06.2025		

AGRO AG

EVolution EMC

E-Mobility Cable Gland

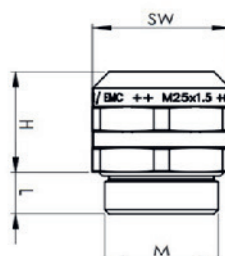
M25x1.5

Shielded single-core copper conductor
35mm² / 70mm² / 70mm²
and different multi-core cables



Mechanical Data

Dimension



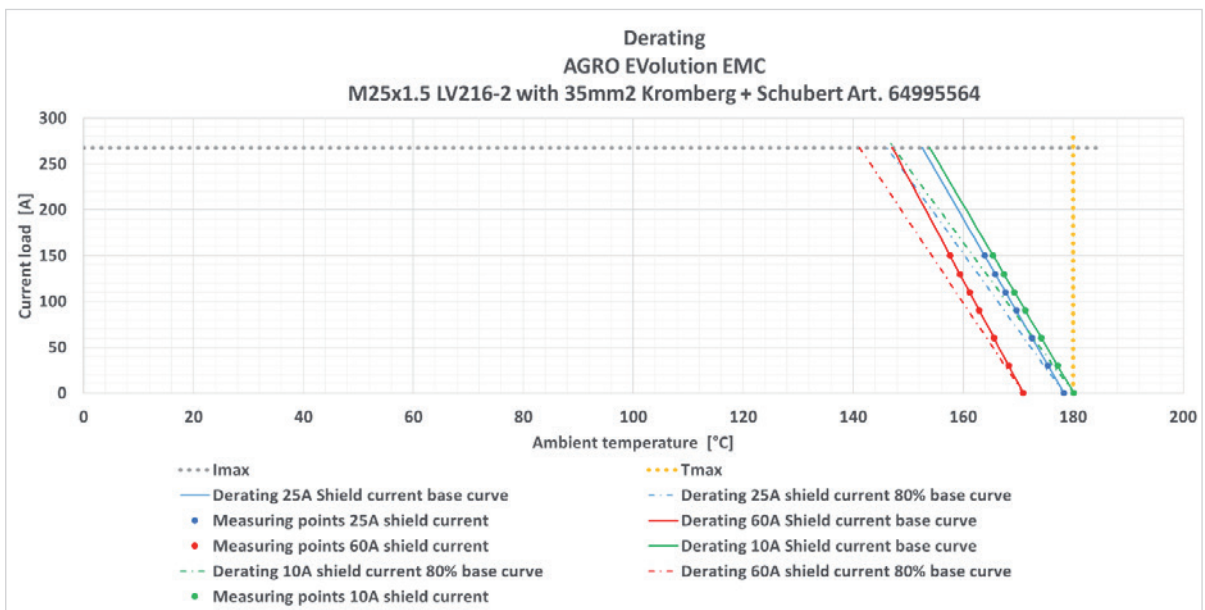
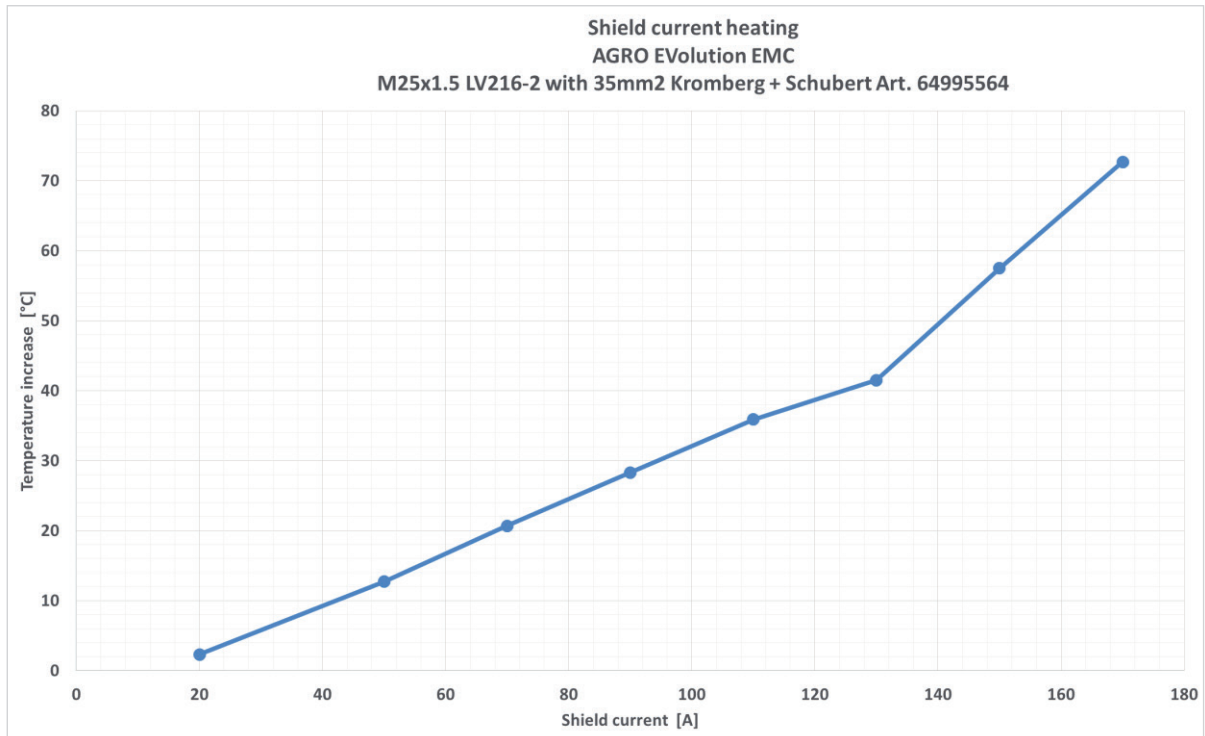
Housing installation	: Installation instructions / Interface specification
Entry thread [M]	: M25x1.5
Thread length [L]	: Short version 7mm; Long version 11 mm
Height [H]	: 26.6mm
Wrench size [SW]	: 30mm
Clear dimension – lower part	: 21.0mm
Material	: Brass lead-free coated
Sealing insert	: Silicone
O-ring	: Silicone
Weight	: ≤ 117gr; depends on cable configuration
Clamping range	: from 12.4mm to 18.55mm

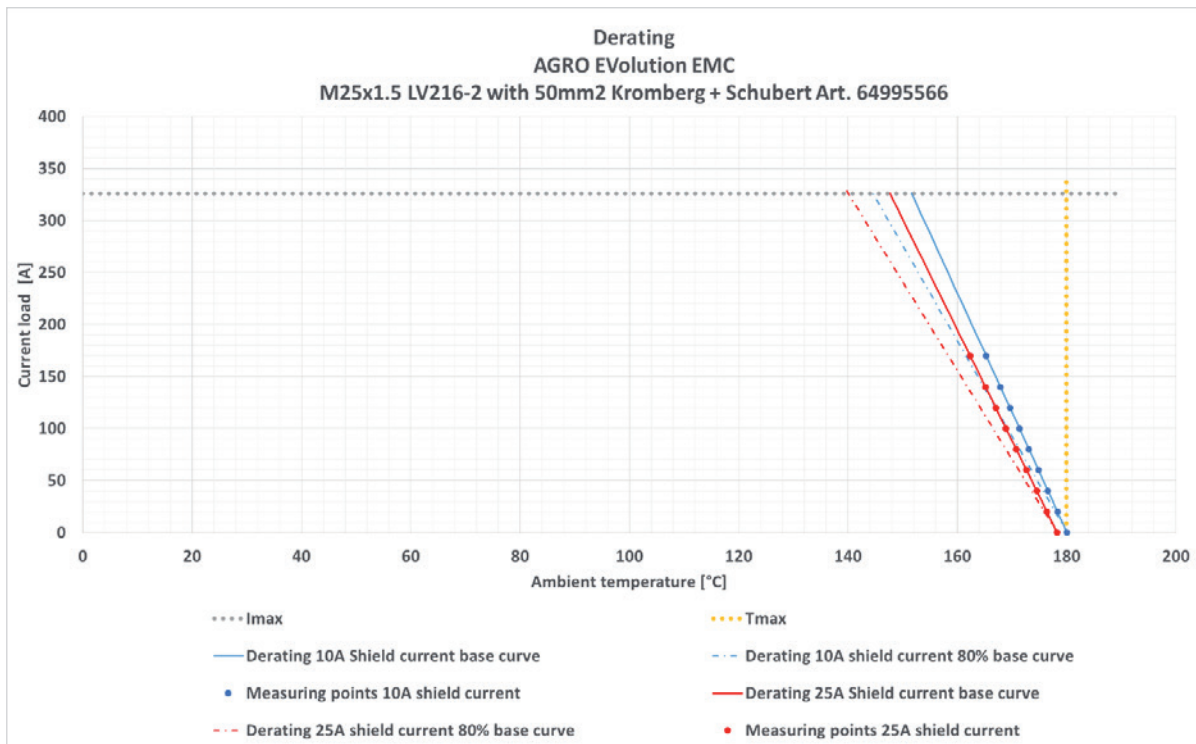
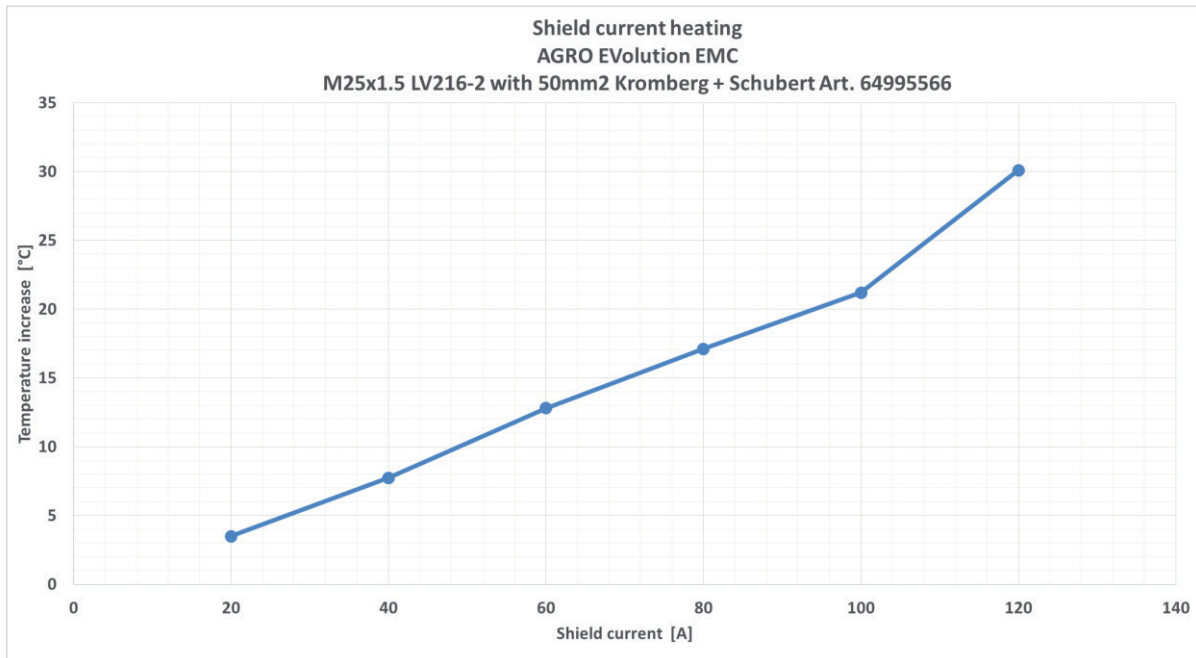
Strain relief	: A, according to EN 62444
Pull-out strength of the shield crimp (according to LV214/LV215 PG10)	: <u>Standards - usual values</u> 35 mm ² ≥ 300N - 400 - 600N 50 mm ² ≥ 300N - 450 - 600N 70 mm ² ≥ 450N - 600 - 940N
Protection class	: IP68 according to EN 60529 IP6K9K according to ISO 20653
Vibration resistance	: Level 3, Level 4 for temperature according to LV214 / LV215 PG17 DIN EN IEC 60068-2-6/-27 /-64
Electrical Data	
Insulation resistance	: ≥200 MOhm at U - =1000 V -
Voltage class	: B 60 V < U - ≤ 1500 V 25 V < U ~ ≤ 1000 V
Shield contact resistance	: <2mΩ requirements according to LV215 PG50 / IEC 62153-4-10 0,3 – 0,4mΩ effective values after aging with 10cm cable 0.8mΩ
Shield attenuation requirements	: >50dB from 30MHz to 300MHz according to LV215 PG50 IEC 62153-4-3 Effective values in the range of 60dB – 90dB depending on the cable (cross section and shield)
Delta transfer impedance	: <2.5mΩ/m at 2MHz <5.0mΩ/m at 30MHz
Mating cycles contact system	: 50x according to LV214 / LV215 PG11 (with monitoring of contact resistance)
Shield current carrying capacity	: See chart « <i>Heating due to shield current & derating</i> »
Derating	: According to LV214 / LV215 PG12 and DIN EN 60512-5-2
Environmental testing	
Temperature range	: -40°C to +140°C
Salt mist testing	: DIN EN IEC 60068-2-52, Degree of severity 3
Chemical resistance	: According to LV214, Medium list E.1 without bio-diesel
ROHS / REACH	: compliant

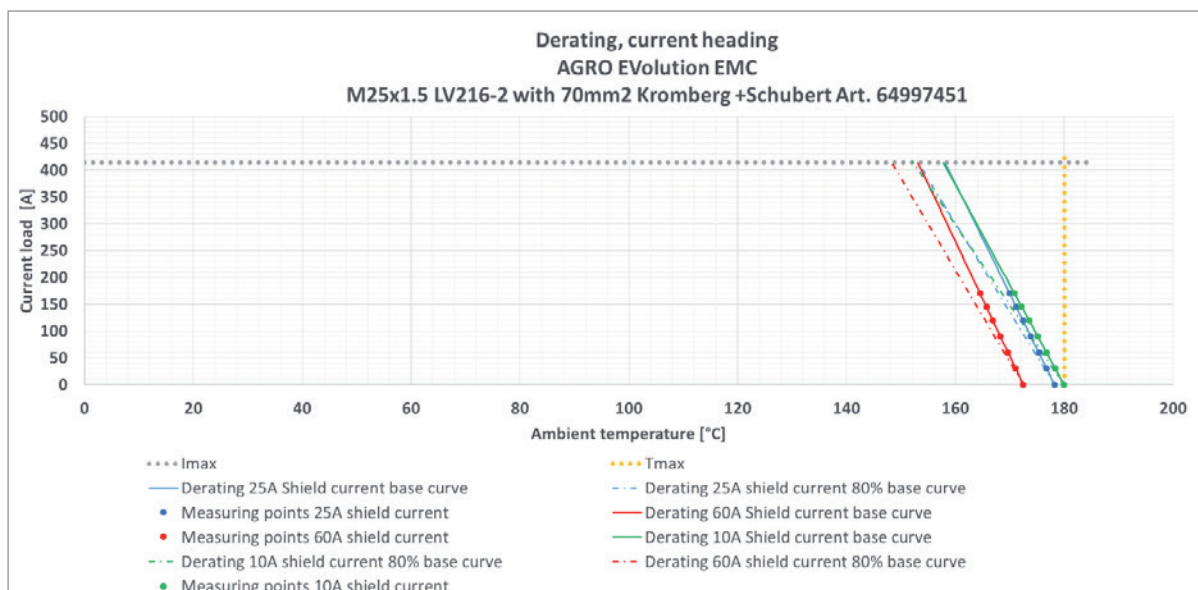
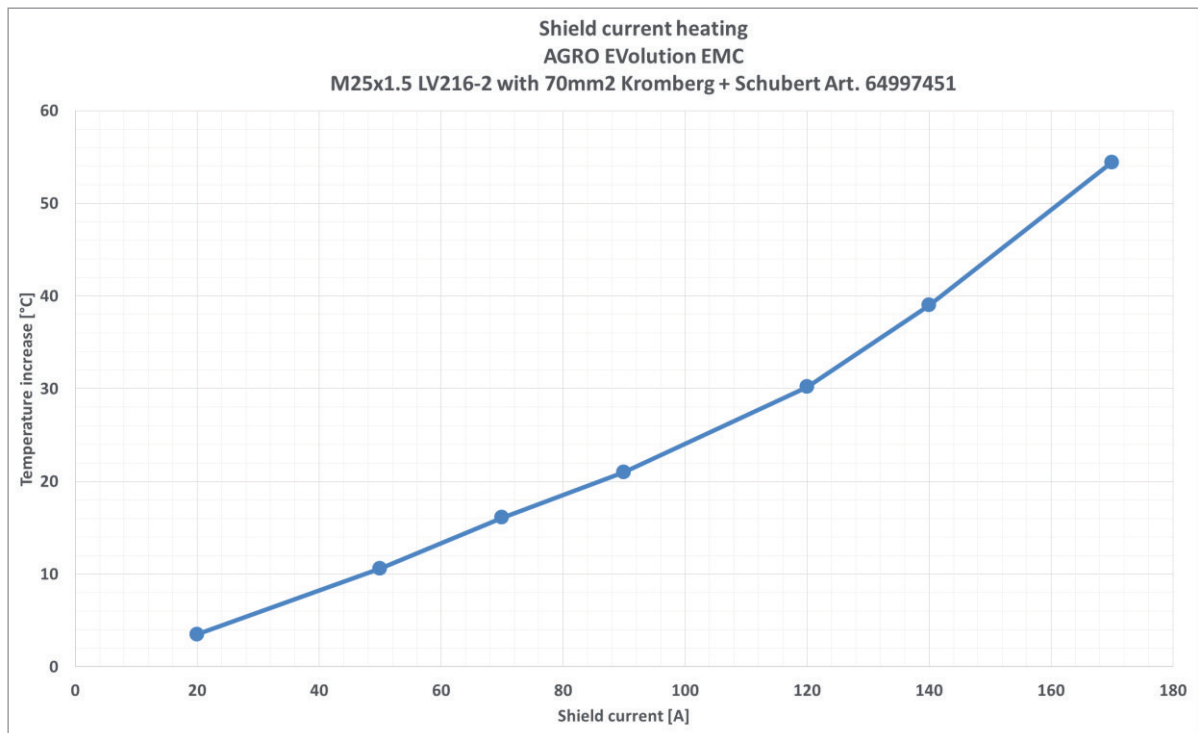
Cable compatibility

The EVolution EMC is designed for numerous cable types and cross-sections.
Check compatibility using the AGRO product selector info@agro.ch

Heating due to shield current & derating chart







These values and diagrams were measured in our certified test laboratory with validated measuring instruments and compiled in this data sheet. The passing on and publication of this data, whether in whole or in part, requires the written consent of **AGRO AG** and reserves the right to make changes.