

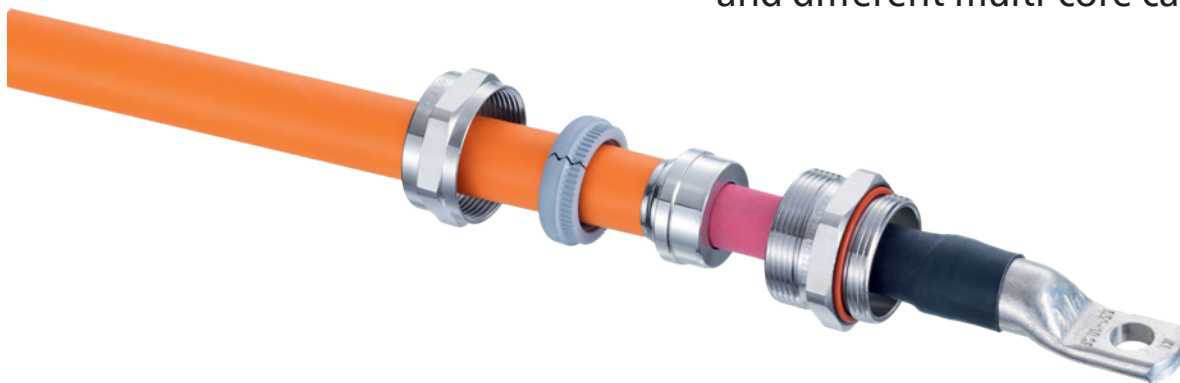
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AGRO AG

EVolution EMC

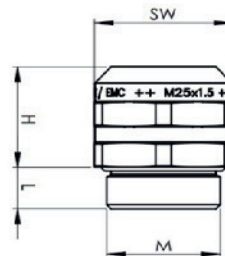
E-Mobility Cable Gland

M20x1.5
Shielded single-core copper conductor
10mm² / 16mm² / 25mm² / 35mm²
and different multi-core cables



Mechanical Data

Dimension



Housing installation	: Installation instructions / Interface specification
Entry thread [M]	: M20x1.5
Thread length [L]	: Short version 6mm; Long version 10mm
Height [H]	: 25.5mm
Wrench size [SW]	: 24mm
Clear dimension – lower part	: 16.0mm
Material	: Brass lead-free coated
Sealing insert	: Silicone
O-ring	: Silicone
Weight	: ≤ 76gr; depends on cable configuration
Clamping range	: from 8.1mm to 14.85mm

Strain relief : A, according to EN 62444

Pull-out strength of the shield crimp
(according to LV214/LV215 PG10) : Standards - usual values
10 mm² ≥ 150N - 250 - 290N
16 mm² ≥ 150N - 250 - 350N
25 mm² ≥ 300N - 300 - 400N
35 mm² ≥ 300N - 400 - 500N

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 «*Heating due to shield current & derating*»

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

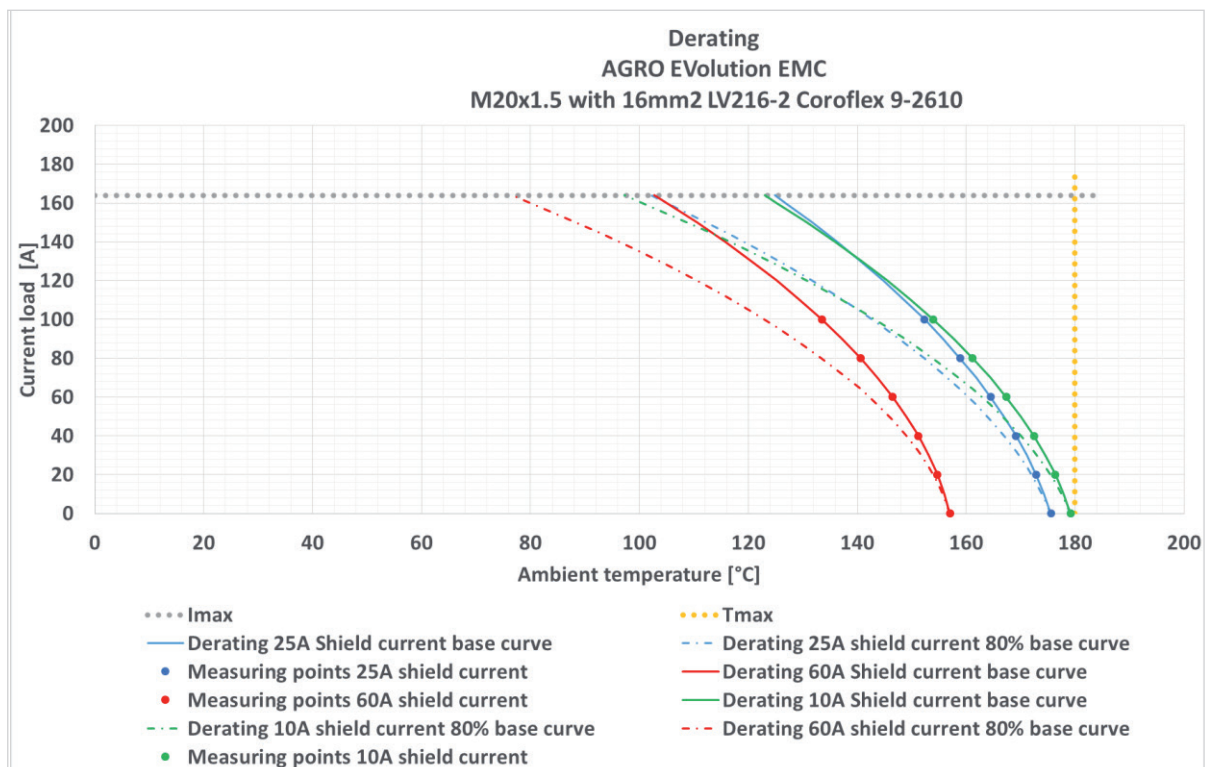
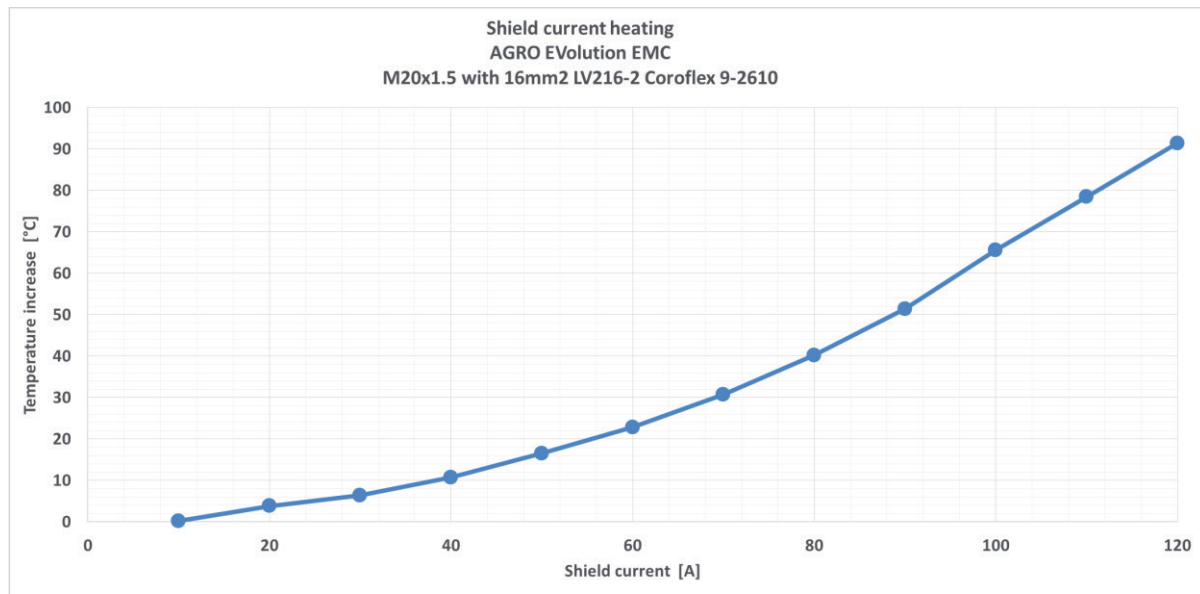
Chemical resistance : According to LV214, Medium list E.1 without
bio-diesel

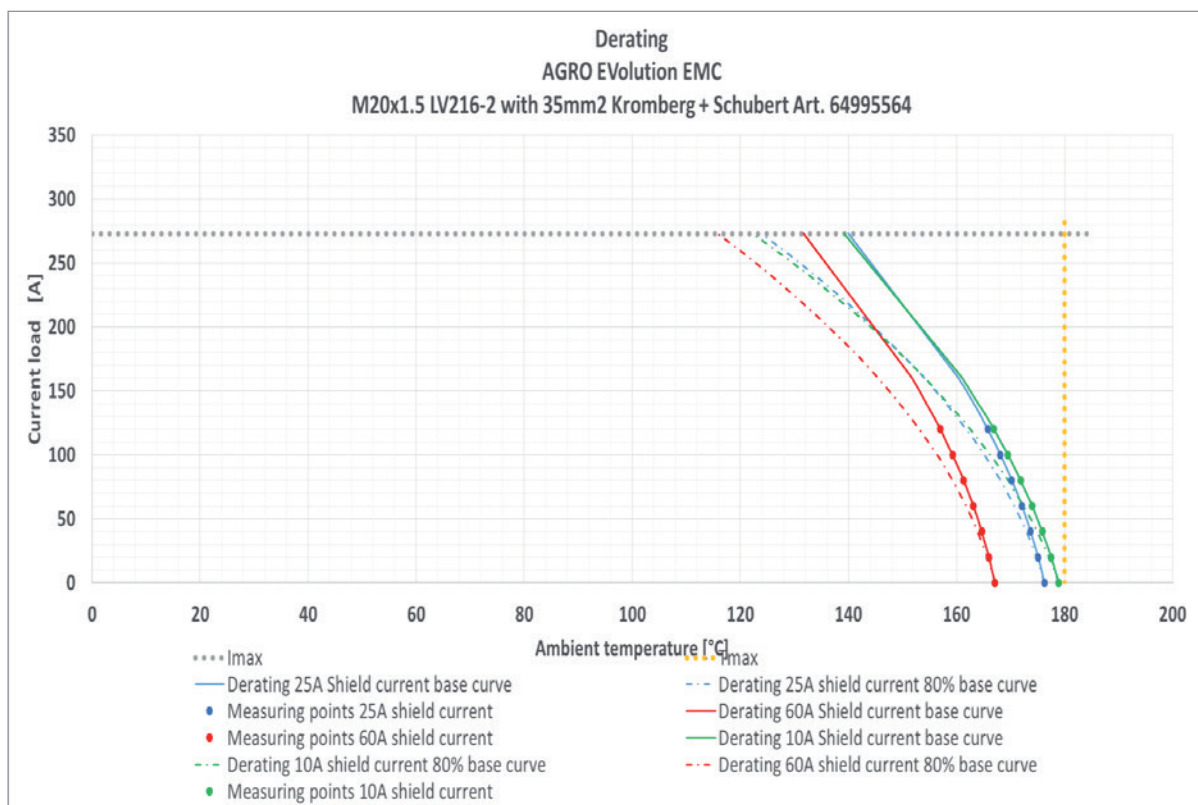
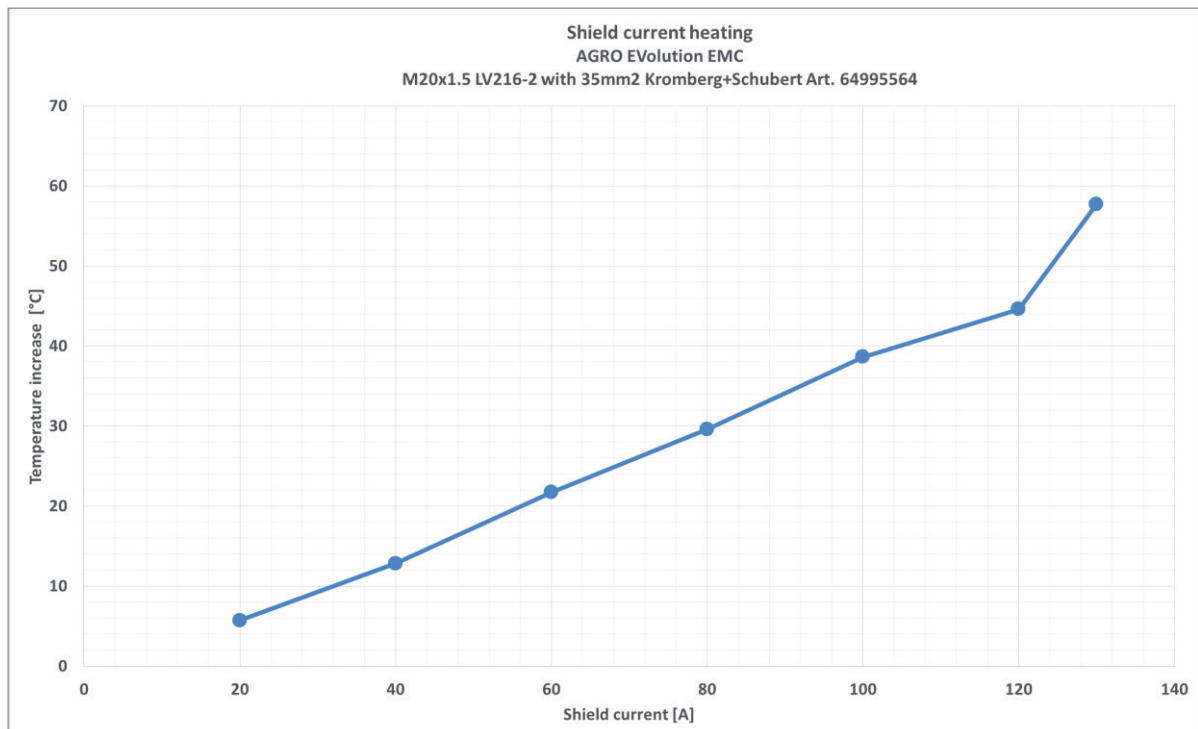
ROHS / REACH : compliant

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.