Progress® EMC powerCONNECT.

Direct cable connection technology for high leakage currents and optimum shielding in the smallest space.

Your ideal solution for shielded cable entries.

AGRO
... your quality-connection

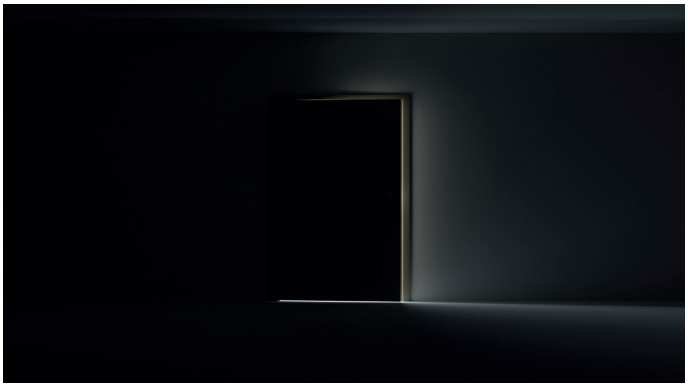
Progress® EMC powerCONNECT

Reliable and secure shield gripping, even with moving cables.

A cable gland cannot improve a shielded system overall, but it must not weaken the shielding effect either. The challenge increases in applications with moving parts or vibrations.

A tiny leak is enough to make an aquarium lose its watertightness.

A beam of light through a keyhole or a crack spoils the absolute darkness of a darkroom.



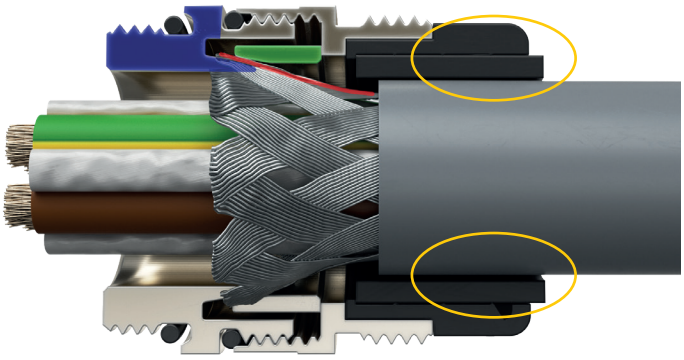
Similarly, an imperfect shield connection can affect an enclosure's ability to remain interference free.

If a cable shield is entered into an enclosure without bonding with the outer wall, interference fields can penetrate inside. By using shielded cables and high-quality EMC cable glands,

proper shielding can be ensured.

The Progress® EMC powerCONNECT cable gland offers exceptional reliability where shielded cables require to be inserted without permitting interference fields. The shield bonding ensures 360° continuity, with the shield braiding clamped, friction-locked, between a cone-shaped part (blue in the illustration) and a compression sleeve (green in the illustration). This method of connecting cable shields has been widely used in the field of telecommunications for many years.

The key requirements include:
- 360° connection
- Friction-lock clamping
- No mechanical stress
- Protected against environmental influences



There are no sharp edges that could damage the shield braiding, making it unusable.

The strain relief takes place already via the sealing insert on the cable (yellow ellipses). Movements of the cable are thereby absorbed here and not passed to the shield braiding. These benefits make the Progress® EMC powerCONNECT cable gland the product of choice for applications with high vibration and moving cables, typically seen in rail vehicles, construction machinery and the robotic industry.

The cable gland and the compression ring are made of nickel-plated brass, virtually preventing any electrochemical corrosion. The quality of the bonding between the cable gland and the shield braiding remains constant, providing a long-term reliable connection.

This design offers the following benefits:
- 360° friction-lock shield bonding
- Vibration-damping cable entry
- Reliable discharge of high leakage currents
- Extremely low contact resistance – high shielding effectiveness
- Prevention of twisting by knurling on the lower part – neither the sealing insert nor the shield braiding can twist
- IP 68 / IP69 sealing level
- Temperature resistance -60°C / +100°C
- Suitable sealing inserts according to EN 45545 for railway applications

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