

REVOS® FLEX COMPACT 1M

EMC SOLUTIONS FOR WIND TURBINE CONNECTIONS



- + EMC-optimized housing **reduces outages**
- + Robust and virtually **indestructible** housing
- + Coupling resistance and shielding in accordance with **IEC 60603-7-3**
- + Customized with **flexible insert options**
- + Up to **30% faster installation**, inserts are quickly fitted without tools

ELECTROMAGNETIC COMPATIBILITY (EMC)

The revos flex compact housing system is specially designed with outstanding EMC characteristics which reduce outages due to lightning strikes.

The coupling resistance and shielding attenuation values are determined in accordance with **IEC 60603-7-3**. The protective housing of revos flex minimizes the induced current and voltage caused by indirect lightning strikes. Your equipment is protected and running in all weather. The connector is protected against corrosion, jetted water, & ice, and a **Type 4** rating.

FEATURES

- + Compact and robust housing with stainless steel locking lever
- + Corrosion protection
- + EMC protection:
 - Coupling resistance < 10 mΩ to 30 MHz,**
 - Attenuation > 70 dB to 100 MHz**
- + Type 4 protection
- + Hood with top or side cable entry





COMPONENTS

Base & Top Hoods

Technical data

| | |
|----------------------|-------------------------------------|
| Material | aluminum |
| Surface | - |
| Locking levers | stainless steel |
| Gasket | NBR |
| PE connection | 0.34 – 10 mm ² |
| Corrosion protection | 720 Hrs (ISO 9227) |
| Mating cycles | 500 (EN 61984) |
| | Class B – Category 1 (DIN EN 50155) |

Degree of protection

| | |
|-------------------------------|---|
| with appropriate cable glands | IP65 & IP68 (3 m / 10 hrs) & IP69k (DIN EN 60529) |
| Temperature range | -40 °C to +120 °C |

EMC

| | |
|---|---------------------------|
| EMC coupling resistance to IEC60603-7-3 | < 10 mΩ DC to 10 MHz |
| EMC shielding attenuation | > 70 DB 10 MHz to 100 MHz |
| Expanded measuring span (in connection with suitable EMC cable screw gland) | |

Approval

| | |
|------|--------|
| NEMA | Type 4 |
|------|--------|



| Model | Function | Part no. |
|-------------------|----------------------------|---------------|
| RFC MCL L 1 M A20 | Base with locking lever | 78.320.0134.0 |
| RFC MC 1 M A20 | Base without locking lever | 78.330.0134.0 |



| Model | Function | Part no. |
|--------------------|--|---------------|
| RFC TS 1M M20S A21 | M20 side entry hood with threaded collar | 78.352.0134.1 |
| RFC TS 1M M25S A21 | M25 side entry hood with threaded collar | 78.353.0134.1 |



| Model | Function | Part no. |
|--------------------|---|---------------|
| RFC TS 1M M20T A21 | M20 top entry hood with threaded collar | 78.362.0134.1 |
| RFC TS 1M M25T A21 | M25 top entry hood with threaded collar | 78.363.0134.1 |

Modular Inserts 3 to 20 poles

Technical data

| | 3-pole | 4-pole | 4-pole spring clamp | 5-pole | 10-pole | 20-pole |
|-------------------------|-----------------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Rated voltage UL/CSA | 600 V | 600 V | 600 V | UL 400 V, CSA 600 V | UL 240 V, CSA 600 V | 60 V |
| Rated impulse voltage | 8 kV | 8 kV | 6 kV | 6 kV | 4 kV | 1.5 kV |
| Rated current | UL 40 A, CSA 35 A | UL 13 A, CSA 16 A | 14 A | UL 20 A, CSA 16 A | 10 A | 5 A |
| Insulation strip length | 10 mm | 4 mm | 10 mm | 8 mm | 8 mm | 3 mm |
| Contact resistance | ≤ 1 mΩ | ≤ 5 mΩ | ≤ 5 mΩ | ≤ 2 mΩ | ≤ 5 mΩ | ≤ 5 mΩ |
| Mating cycles | 500 | 500 | 100 | 500 | 500 | 500 |
| Insulating material | Polycarbonate, Halogen-free | Polyamide 6.6 GF, Halogen-free | Polycarbonate, Halogen-free | Polycarbonate, Halogen-free | Polycarbonate, Halogen-free | Polycarbonate, Halogen-free |
| Flammability | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 |
| Temperature range | -40 – +120 °C | -40 – +120 °C | -40 – +120 °C | -40 – +120 °C | -40 – +120 °C | -40 – +120 °C |



| Model | Function | Part no. |
|--------------|-----------------------|---------------|
| FLE STC 3 69 | Male insert, 3-pole | 78.014.0353.0 |
| FLE BUC 3 69 | Female insert, 3-pole | 78.004.0353.0 |



| Model | Function | Part no. |
|---------------|--------------------------------|---------------|
| FLE STC 4P 1K | Male insert, 4-pole + ground | 78.013.0353.0 |
| FLE BUC 4P 1K | Female insert, 4-pole + ground | 78.003.0353.0 |



| Model | Function | Part no. |
|--------------|-----------------------|---------------|
| FLE STC 5 25 | Male insert, 5-pole | 78.013.0553.0 |
| FLE BUC 5 5 | Female insert, 5-pole | 78.003.0553.0 |



| Model | Function | Part no. |
|---------------|------------------------|---------------|
| FLE STC 10 25 | Male insert, 10-pole | 78.012.1053.0 |
| FLE BUC 10 5 | Female insert, 10-pole | 78.002.1053.0 |



| Model | Function | Part no. |
|---------------|------------------------|---------------|
| FLE STC 20 10 | Male insert, 20-pole | 78.011.2053.0 |
| FLE BUC 20 10 | Female insert, 20-pole | 78.001.2053.0 |



| Model | Function | Part no. |
|---------------------|------------------------------------|---------------|
| FLE STF 4 2.5 40 AG | Male insert, 4-pole spring clamp | 78.213.0453.0 |
| FLE BUS 4 2.5 40 AG | Female insert, 4-pole spring clamp | 78.203.0453.0 |