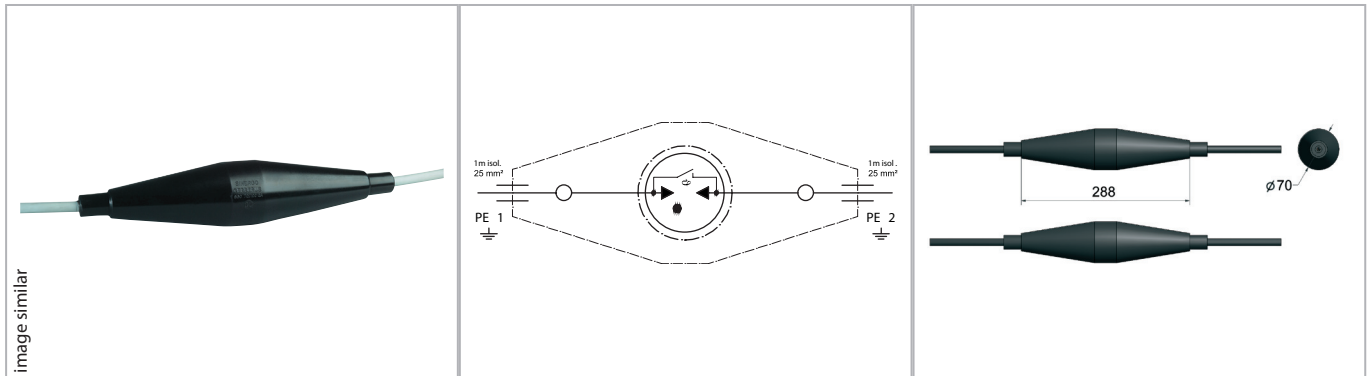


Rare-gas-filled insulation spark gaps

Flexible mounting



A rare-gas-filled spark gap for the lightning protection equipotential bonding, the insulation of electrically separated parts and the bridging of insulating flanges of gas pipelines. Waterproof isolating spark-gap for underground installation (soil). Moulded in PU diecast, with cables.

- High-quality industrial ceramics
- Rare-gas filled, hermetically sealed
- Free from radioactive substances
- High discharge capacity up to 100 kA
- Extremely low sparkover voltage
- Highly reliable, stable functioning
- Fail-safe characteristic
- SNAM execution
- Test standard DIN EN 62561-3:2018-02
- Including 2 m connection cables with 25 mm²

| Technical Data | | SGO 70 QA |
|---|--------------------|---|
| IEC category | | Class H |
| Nominal DC sparkover voltage at 100 V/s | U _{agN} | 100 ±20% V= |
| Nominal AC sparkover voltage (50 Hz) | U _{aw} | 70 ±20% V |
| Typical impulse sparkover voltage | U _{as} | 650 V |
| Max. impulse sparkover voltage | U _{as} | 950 V |
| Nominal impulse discharge current (10 x 8/20 µs) | I _n | 100 kA |
| Lightning impulse current (10/350 µs) total | I _{total} | 100 kA |
| 3x lightning impulse current (10/350 µs), long-duration current (CENELEC/BTTF 62-2) | I _{imp} | 75 kA/38 As/1,45 MJ/Ω plus 150 A / 0,5 s /75 As |
| 20x lightning impulse current (10/45 µs) half-wave (DIN 48810) | | 60 kA/10 As/0,1 MJ/Ω |
| 5x Nominal alternating discharge current at 50 Hz, 1 s, 3 min pause | I _{wn} | 100/1 A/s |
| Nominal alternating discharge current (50 Hz) | | 200/0,5 A/s |
| Alternating current critical load (50 Hz) (1x 0.3 s) | I _{wgr} | 4.000/0,25 Aeff/s |
| Spark-gap extinguishing conditions | V _{ex} | < 70 V / < 20 A |
| Insulation resistance at 10 V, 100 V | | > 1 GΩ |
| Self-capacitance at 1 kHz | | 9 pF |
| Test category/climatic category | | DIN IEC 60068-1 / 40/90/21 |
| Relative humidity | | 10%...95% rh |
| Degree of protection | | IP 67 |
| Operating temperature range | TU | -40 - +80 °C |
| Terminals | | Cabel 2m/ 25 mm ² |

Order Data

| | |
|-------------|-----------|
| Product | SGO 70 QA |
| Article-No. | 47 21 04 |