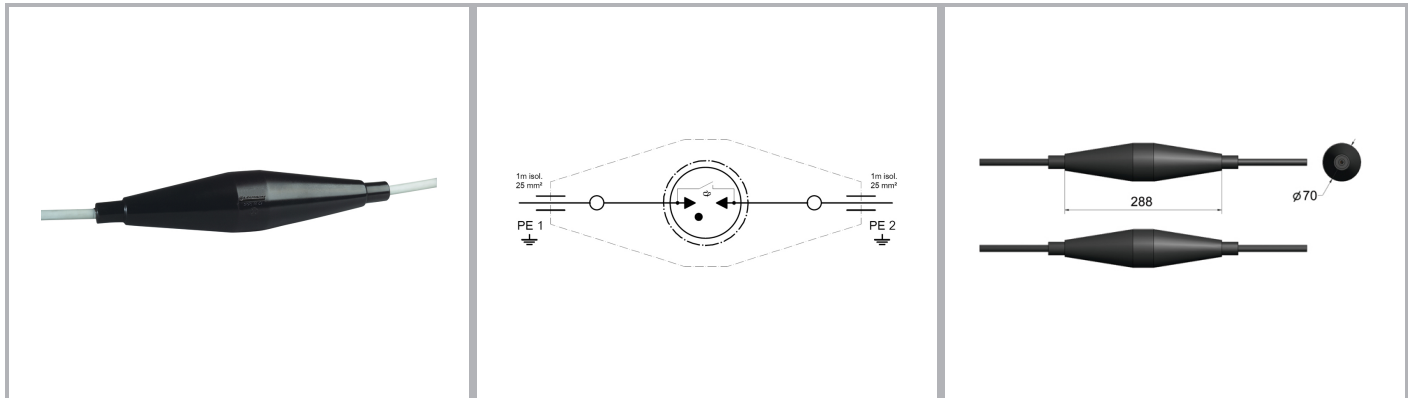


# Datasheet

## Web catalogue

### Rare-gas-filled insulation spark gaps



Waterproof isolating spark-gap for underground installation (soil). Moulded in PU diecast, with cables. 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.

- Gasfilled spark gap (TS)
- 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 2m connection cables with 25mm<sup>2</sup>

Technical Data		SGO 350 QA
IEC category		Class H
Nominal DC sparkover voltage at 100 V/s	U <sub>agN</sub>	500 ±15%V=
Nominal AC sparkover voltage (50 Hz)	U <sub>aw</sub>	350 ±15%V
Typical impulse sparkover voltage	U <sub>as</sub>	950V
Max. impulse sparkover voltage	U <sub>as</sub>	1300V
Nominal impulse discharge current (10 x 8/20 µs)	I <sub>n</sub>	100kA
Lightning impulse current (10/350 µs) total	I <sub>total</sub>	100kA
3x lightning impulse current (10/350 µs), long-duration current (CENELEC/BTTF 62-2)	I <sub>imp</sub>	75 kA/38 As / 1,45 MJ/Ω plus 150A/ 0,5s, 75 As
20x lightning impulse current (10/45 µs) half-wave (DIN 48810)		60kA / 10As / 0,1 MJ/Ω
5x Nominal alternating discharge current at 50 Hz, 1 s, 3 min pause	I <sub>wn</sub>	100/1A/s
Nominal alternating discharge current (50 Hz)		200 / 0,5A/s
Alternating current critical load (50 Hz) (1x 0.3s)	I <sub>wgr</sub>	4.000 / 0,25Aeff/s
Spark-gap extinguishing conditions	V <sub>ex</sub>	< 230V/< 100A
Insulation resistance at 10 V, 100 V		>1GΩ
Self-capacitance at 1 kHz		7pF
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 <sup>2</sup>
Dimensions (Ø x L)		70 x 340mm
Total length with terminals		≤ 4340mm

### Order Data

Produkt	SGO 350 QA
Artikel-Nr	47 21 11

18.02.2022

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