



# SCHLEIFRING

## GigaPLUG - High Speed Data Transfer | The non-contacting connector



The GigaCap technology is based on a contactless, capacitive electronic transmission technology



and has been used successfully by SCHLEIFRING in rotary joints for many years now. Your benefit: it is non-contacting and thus guarantees wear-free operation over an almost unlimited period of time! Data based on Ethernet is converted and transmitted over an air gap without losses. Using identical elements on both

sides, the signal is converted back without loss. As this patented connector works in both directions, it can be used in all Ethernet-based systems. Integrated software recognises which Ethernet connection is being utilized and acts accordingly (autonegotiation).

### Key-features

- Capacitive data transfer (contactless)
- No mechanical wear, no maintenance
- High signal integrity
- Realtime capability
- Vibration/ shock resistant
- Fit for harsh environment
- Easy integration (customized solutions)
- unlimited plug-in cycles without wearing

### Supported Standards

- Ethernet (FastEthernet & Giga-bit Ethernet)
  - ProfiNet
  - PowerLink
  - EtherCAT
  - Power over Ethernet (PoE)
- Others on request

### Characteristics

- Data rate: 1 Gbit/s full-duplex
- Bit error rate  $<10^{-12}$
- Horizontal distance between connector pair ("Air Gap"): Typical 4mm
- Installation diameter: 40mm
- Installation length: 100mm
- Protection class: IP66
- Interface: 1000BaseT: M12
- Customized solutions on request
- Power supply
  - 48 V Power over Ethernet or
  - 24 V via separate power supply