

## Siemon SFP+ 10G DAC Third-Party Accreditation



Siemon's SFP+ 10G Direct Attach Cables (DACs) have been confirmed as 'GHMT Premium' accredited by independent test house GHMT AG as part of its **GHMT Premium Verification Program (GHMT PVP)**.

The High Speed Interconnects (HSIs) successfully passed a rigorous testing cycle which was conducted to current national and international standard specifications, such as EN 50173-1, ISO/IEC 11801-1

Siemon only provides dual rated LS0H/CM\* cables. Our SFP+ 10G DAC cables are the only GHMT PVP accredited LS0H solution on the market.

### Key Information About GHMT PVP Testing

- The GHMT PVP is based on a contractual agreement that includes, among other things, regular sampling from non-biased sources. During this process stringent requirements must be met:
  - Test specimens are sampled by GHMT AG themselves both at the resellers' sites and within their testing framework projects, ensuring that the testing reflects the exact products that will be delivered to the end customer
  - Every product tested within this process must meet the requirements per the relevant industry standards.
- Samples are selected on-site, obtained through resellers and purchased independently by GHMT to ensure the tests are unbiased and not influenced by the manufacturer.

\*Low Smoke Zero Halogen / Communication Multipurpose



## Key Test Results

Below is an overview of the full range of tests the Siemon SFP+ 10G DAC cables were subjected to by GHMT, all of which were passed to achieve the accreditation.

### ROBUST

- Passed low level contact resistance – Mated cable assembly, I/O connector with 20mV @ 100mA max
- Passed 300V DC power for 1 minute

### DURABLE

- After 50 mating cycles no physical damage was visible
- No damage to the SFP latch up to 90N / 170
- SFP module insertion supported 18N max
- SFP module extraction supported 12.5N max
- Passed 170N min during SFP cable pull out

### ADAPTABLE

- Passed high temperatures (+70°C) for 500 hours
- Passed thermal shock (10 x cycles – air to air time 30 minutes | -20°C to +70°C)
- Passed cyclic temperature and relative humidity (RH)  
(24 x cycles = 25°C @ 80% RH for 30minutes | 70°C @ 50% RH for 60 minutes | 25°C for 30 minutes)
- Passed Salt Spray tests (specimens were stored in distilled water with 5% salt solution – 3 x 8 hour durations)
- Passed continuous vibration (frequency 100Hz for 1 hour)
- Passed mechanical drop tests (10 x drops from 0.5m height)

### DEPENDABLE

- Passed insertion loss requirements (Max @ 17.04dB | Min @ 3dB)
- Passed return loss requirements for IEEE 802.3ba; 85.10.4
- Passed NEXT loss requirements

