

Electrical Specification

Electrical

Maximum continuous operating voltage U_C
 • $\leq 3.3V$ DC

Maximum continuous voltage U_C (wire-wire)
 • $\leq 3.3 V$ DC ($\pm 60 V$ DC/PoE+)

Maximum continuous voltage U_C (wire-ground)
 • $\leq 180 V$ DC

Nominal current I_N
 • $\leq 1.5 A$ ($25^\circ C$)

Operating effective current I_C at U_C
 • $\leq 1 \mu A$

Residual current I_{PE}
 • $\leq 8 \mu A$

Nominal discharge surge current I_n (8/20) μs (Core-Core)
 • 100 A

Nominal discharge surge current I_n (8/20) μs (Core-Earth)
 • 2 kA (per signal pair)

Total surge current (8/20) μs
 • 10 kA

Nominal pulse current I_{an} (10/700) μs (Core-Core)
 • $\leq 40 A$

Nominal pulse current I_{an} (10/700) μs (Core-Earth)
 • $\leq 160 A$

Output voltage limitation at 1 kV/ μs (Core-Core) spike
 • $\leq 85 V$ (PoE)

Output voltage limitation at 1 kV/ μs (Core-Earth) spike
 • $\leq 700 V$

Output voltage limitation at 1 kV/ μs (Core-Core) static
 • $\leq 9 V$

Output voltage limitation at 1 kV/ μs (Core-Earth) static
 • $\leq 700 V$

Output voltage limitation at 100V/s (Core-Core)
 • $\leq 9 V$

Output voltage limitation at 100V/s (Core-Earth)
 • $\leq 300 V$

Output voltage limitation at 100V/ μs (Core-Core)
 • $\leq 9 V$

• Output voltage limitation at 100V/ μs (Core-Earth)
 • $\leq 600 V$

Residual voltage at I_N , (conductor-conductor)
 • $\leq 15 V$
 • $\leq 100 V$ (PoE)

Voltage protection level U_p (Core-Core)
 • $\leq 9 V$ (B2 - 1 kV/25 A)
 • $\leq 100 V$ (B2 - 1 kV/25 A - PoE)
 • $\leq 15 V$ (500 V/100 A)

Voltage protection level U_p (Core-Earth)
 • $\leq 600 V$
 • $\leq 700 V$ (C2 - 4 kV/2 kA)

Response time t_A (Core-Core)
 • $\leq 1 ns$

Response time t_A (Core-Earth)
 • $\leq 100 ns$

Input attenuation aE , sym.
 • 1 dB ($\leq 250 MHz$)

Near-end crosstalk attenuation
 • $\leq 35 dB$ (At 250 MHz / 100 Ω)

Cut-off frequency f_g (3 dB), sym. in 100 Ohm system
 • $> 500 MHz$

Capacity (Core-Core)
 • typ. 5 pF ($f=1 MHz / VR=0 V$)

Capacity (Core-Earth)
 • typ. 2 pF ($f=1 MHz / VR=0 V$)

Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)
 • B2 (1 kV/25 A)

Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)
 • B2 (4 kV / 100 A)
 • C2 (4 kV / 2 kA)
 • D1 (1 kA)

Mechanical

Casing

- Aluminum case
- IP20

Dimensions

- 62.5mm (W) x 100mm (H) x 30mm (D)
 (2.5"(W) x 3.8"(H) x 1.18"(D))

Weight

- 184g $\pm 5\%$

Installation

- DIN-Rail

Connection (input / output)

- RJ45 connector / RJ45 connector

Environment

Operating Temperature

- $-40^\circ C$ to $50^\circ C$ ($-40^\circ F$ to $122^\circ F$) @ 1000Mbps
- $-40^\circ C$ to $75^\circ C$ ($-40^\circ F$ to $167^\circ F$) @ 100Mbps

Storage Temperature

- $-40^\circ C$ to $85^\circ C$ ($-40^\circ F$ to $185^\circ F$)

Ambient Relative Humidity

- 5% to 95%, non-condensation

Regulatory Approvals

ISO

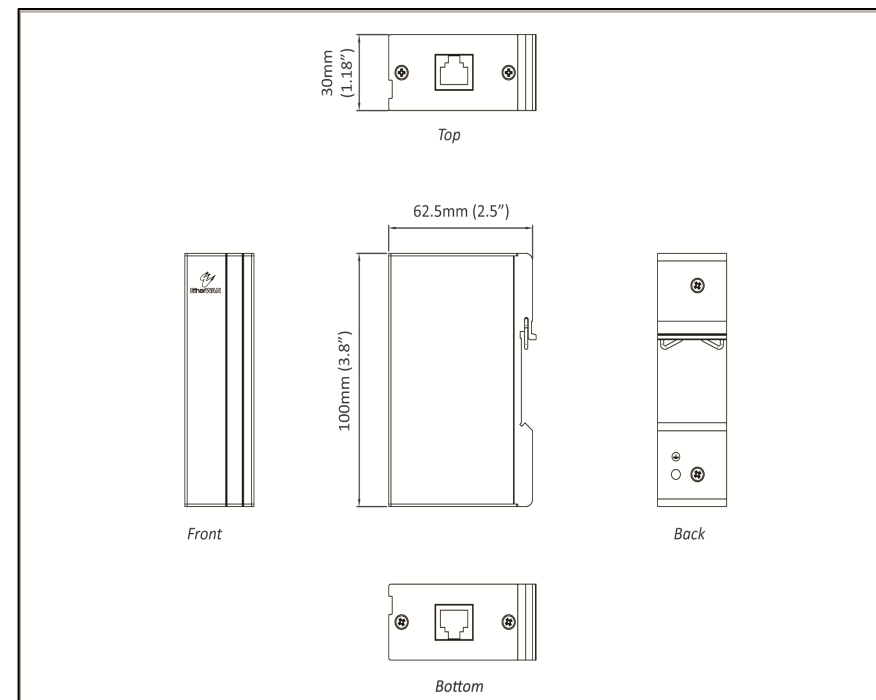
- Manufactured in an ISO9001 facility

UL

- UL497B

Mechanical Specification

Dimensions



Application Distance Limitation

