eLYTE® POTS Specifications

Isolation Method:	Fibre optic cables
Electrical Isolation:	100kV per metre of fibre optic cable
Max. fibre optic length	Standard model 20 metres (plastic fibre) Extended Range Model (Multi mode glass) up to 3km. Long Range Model (Single mode glass) up to 15km
Optical Transducers	Versatile link/AMP (short range), ST (long range)
Transmission method	Frequency modulated light
Audio frequency response	300-3000Hz +0.5dB to –1.0dB relative to 1000Hz
Return loss	>18dB 300-3400Hz
Overload level	3dBm into 600Ω at 1KHz
Noise	Less than –70dBm psophometric Less than 20dBm C weighted (Message CIR)
Telephone feed	48V
Dialing Method	Transparent to DTMF, does not support pulse dialing
Ringing	Sine wave output 80V rms open circuit min. Up to 4 bells in series may be used. Ringing frequency and cadence is unchanged through system. Operation guaranteed on 16.6, 20 and 25Hz.
Line resistance	Customer terminal: 1kΩ Exchange interface terminal: 3000Ω total loop maximum
Power requirements	Customer terminal: Nominal I/P voltage range –24V to –48V Current draw on hook 20mA typical @48V PSU in Current draw off hook 90mA typical +/-10% @ 48VPSU in Current draw during ringing Exchange terminal: Current draw on hook 20µA Typical @ 48V line feed
Surge protection	Customer terminal: 230V varistors +trisils + PTC resistor Exchange terminal: 230V varistors + trisils + PTC resistor
Dimensions	Terminal PCBs: 100mm x 85mm Housings: various
Environmental	Temperature –10°C to +50°C Humidity: 95%

Due to continuing development, specifications are subject to change without notice

The fastest, lowest cost way of adding telecommunication services.

Cost Effective

Reliable

Effortless

Proven Technology

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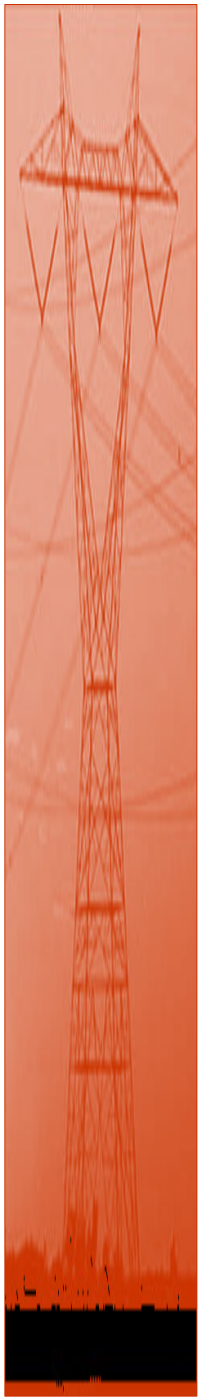

DAVAS
Data And Voice Access Solutions

Network Safety in voltage hazard areas.

eLYTE® Optical Link

- eLYTE® POTS Optical Link

Company Information

Davas is a specialist in the development and supply of Isolation Equipment for protecting personnel and equipment using copper telephone lines.

Davas, formally a business within the Ericsson global Telecommunications company, has been developing and supplying world leading optical isolation products since the mid 1980s.

We utilise our strengths in design and manufacture of telephone, data, and isolation products to create cost effective and practical solutions. Our customers value our commitment to a range of support services. We value the opportunity to work with customers and distributors to provide a tailored solution.

Our customer base includes incumbent companies in the Telecommunication and Power industries such as Telstra and Energy Australia.

From our base in Napier, New Zealand, we have now deployed isolation solutions in many countries throughout Asia, Africa, Oceania and North

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Shedding new light on your isolation problems

The eLYTE® Fiber Link family provides electrical isolation for 2 wire copper lines into, through and out of an area where a fault situation could create a dangerous earth potential relative to the telephone network.

The system is also capable of providing protection to circuits which can be affected by lightning, as well as elimination of RF field pickup in copper lines near high power transmitters.

Protection for:

- Switched 2 wire line.
- Point to point 2 wire speech or data line.
- Extension from a PABX situated within a voltage hazard area.
- Cable passing through a voltage hazard area.

Other Applications Include:

Protection of telephone, computer and PABX systems in lightning prone areas.
Isolation of forest lookout towers from copper lines in lightning prone areas.

2 wire System

The exchange interface unit is powered from the telephone line. No other metallic connection is made to this unit. A local power supply (24 – 48Vdc) and the telephone instrument are connected to the customer unit.

Fiber optic cables are used to connect the two units which can be up to 3km apart, allowing the exchange interface unit to be installed beyond the voltage hazard (earth potential rise) area. The 2 wire Optical Link carries all speech, ringing and DTMF dialing signals. The system is also suitable for use with 2 wire data circuits.

Isolation of Switched 2 Wire Line: