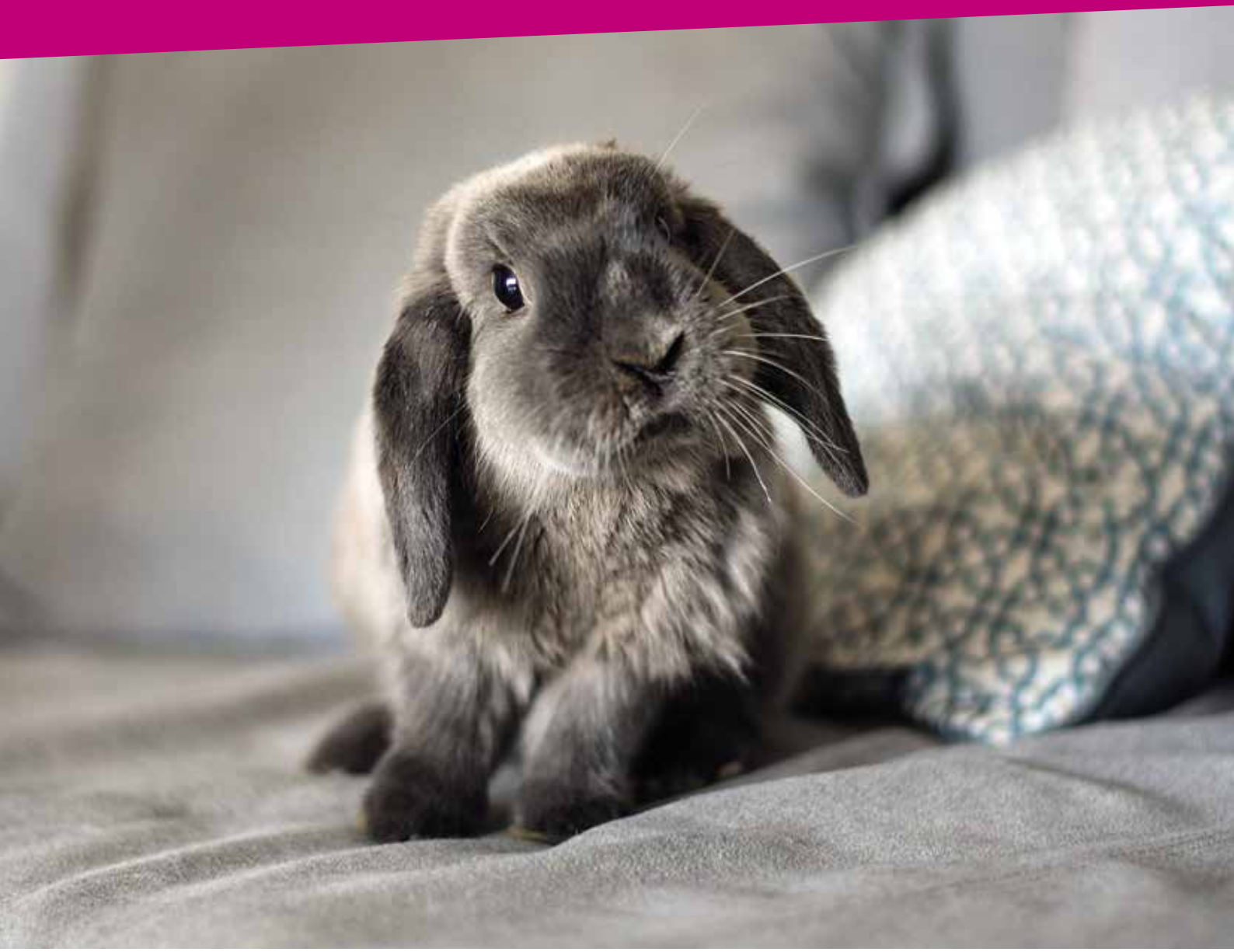
PRYSMIAN

VOLTSERVER
DIGITAL ELECTRICITY™

Go ahead, it won't bite.

VoltServer – Digital Electricity™ safe to touch.



A brand of the
Prysmian Group

Touch-safe power where, when and how you need it.

As part of our offer we now supply VoltServer. This patented technology lets you transmit touch-safe electricity at high power levels while digitally controlling a host of modern electronic devices connected to the distribution system. This ingenious solution combines energy and data into energy packets and if there are improper wiring, a short circuit, or a person touching the cable, the transmission will be cut in 0.003 seconds. The wild beast is tamed.

1. AC or DC analog electricity from solar panels, a power grid och backup battery is converted into Digital Electricity by VoltServer Transmitter Line cards.

2. 700 packets of Digital Electricity™ are sent every second over any two-conductor cable.

3. VoltServer Transmitter Line Cards perform a safety check after every Digital Electricity™ packet transmission.

4. VoltServer Receivers convert Digital Electricity™ back into Analog Electricity at correct voltage and power level for remote loads.

- **Solar**
- **Grid Power**
- **Battery backup**

PoE Switch
4G/5G Radio
LED Lighting
TV / Kiosk
ONT

5. Use Digital Electricity™ hosted app and in-band channel to policy control power delivery (e.g. ON / OFF / LEVEL / DIM / RESET).

Analog Electricity | Digital Electricity (DE) | Analog Electricity

Benefits

- Safe to touch – any error will be recognised by the Transmitter in 0.003 seconds and the transfer will be stopped.
- Remotely powers solutions, but centrally back-up.
  - Significant Power: Up to 500W/pair, Up to 2kW/Receiver.
  - Significant Distance: Up to 2km.
  - Skinny Conductors: 20-14 AWG.
- Cost effective:
  - No conduit needed.
  - Reduction in technician labour.
  - Less copper.
  - Optional hybrid cable to combine power and communication units into one cable.
- Speedy installation - Cables can be installed in the same duct as other telecommunication cable.
- Efficiently powers equipment needed to densify 4G/5G and Wi-Fi service in building and venues.
- Environmentally friendly: it has capacity for solar, battery and fuel-cell support while using less copper and electricity and generating less heat.

Applications

- Mobile Radio Power (4G, 5G, Carrier WiFi, DAS, Small Cell, Macro, AP).
- Power Over Ethernet Switches (WiFi, IoT, Security Cameras, LED Lights, PLC Controllers.
- High Speed Communications Power (FTTx, GPON, ONT, OLT, xDSL, G-FAST).
- Smart LED Lighting Power.
- UPS/Centralised Battery Back-Up.
- DC Microgrid.

Compliance

- AS/NZS 62368, level ES2.
- AS/CA S009:2020 (Wiring Rules)

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