

TrueNet[®]

Line Isolation Unit

Issue 5



To provide line isolation between incoming and outgoing lines.
Allows the passage of high frequency AC signals while preventing the passage of DC signals.

Consists of ten line isolating transformers mounted between two 10-pair modules mounted on a PCB.
One module for the incoming side wiring and one for the outgoing side wiring.
Note: Conductors can not be terminated in the contact sides marked with a "X".

For mounting on standard ADC KRONE backmount frames, requiring 3 module spaces on the backmount frame.

Specifications

Environment: Indoors, in dry closed rooms
Operation temperature range: -20°C to +80°C
Performance: Satisfies AS/ACIF S002 & AS/NZS 3260

Transformers:

Impedance: 120Ω Primary/Secondary
Minimum return loss: 51-102kHz=12dB
..... 102-2048kHz=18dB
..... 2048-3072kHz=14dB
Interface isolation: ≥3kV RMS, 1 minute

Modules:

Insulation diameter: 0.70-1.60mm
Copper conductor diameter: 0.40-0.80mm
Multistrand Conductor: 7/0.2-7/0.32mm
Number of equal diameter solid conductors per slot: 2 max (up to 0.65mm each)
Number of equal diameter multistrand conductors per slot: 1 max
Flammability rating of plastic housing: UL 94 V0
Contact material: high strength spring copper alloy
Contact plating: silver plated
Insulation resistance: ≥5×10⁴MΩ

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Dielectric strength:

Adjacent contacts: ≥2000VAC

Opposite contacts: ≥1800VAC

Current rating of LSA-PLUS contact: = Current carrying capacity
..... of terminated conductor

Contact resistance: ≤1mΩ typical
..... ≤5mΩ guaranteed

Contact force at disconnection point: approx: 3N

Total contact resistance: ≤ 10mΩ

Number of re-terminations: 200

Coupling capacitance between wires: ≤ 1pF

Ordering Information

Description	Quantity	Product No.
Line Isolation Unit	Box of 1	6467 1 100-01

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www.adckrone.com/au

AUSTRALIA 2 Hereford Street, Berkeley Vale NSW 2261
Mailing Address: PO Box 335, Wyong NSW 2259, Australia
Sales Support: 1800 801 298

www.adckrone.com/nz

NEW ZEALAND 2 Nevis Street, Petone, Wellington
Mailing Address: PO Box 38-177, Wellington Mail Centre 6008, New Zealand
Sales Support: 0800 657 663

ADC Telecommunications, Inc., P.O. Box 1101, Minneapolis, Minnesota USA 55440-1101
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