



# Universal DSL and RJ Baluns

VDSL2 Compatible up to 30A profile

## Product Description

Comtest Networks, the Industry leader in design innovations and DSL solutions, introduces the first real twisted pair to coax Balun solution, specifically designed for use with VDSL2. The Comtest Baluns support up to 30A profile and are fully backward compatible to ADSL.

In a world with ever increasing demand for bandwidth, DSL is being pushed further and further into rural areas and older neighborhoods, homes and buildings. It is a challenge to deliver high bandwidth services into older homes, condos and apartment complexes. In many cases, the telephone wiring in these older buildings and homes are either sub-standard, non-existent or damaged.

Comtest DSL Baluns are designed for use in environments that do not have any Telephone wiring or inadequate twisted pair wiring inside the home or building. The Baluns are a straightforward method for running DSL over coax throughout the home in locations plagued with EMI (Electromagnetic Interference) issues.

Comtest DSL Baluns provide an additional way to bring DSL based Video programming and high speed DSL services into the premise by using coax, which in many cases is already in the walls of these homes and buildings.

## Product Benefits

### DSL RJ Balun:

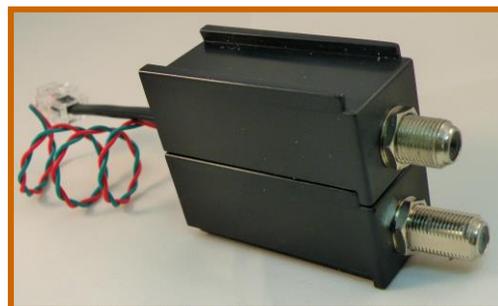
- Interior connection jack for coax to RJ
- Installed at the modem or media gateway located at home or business
- Innovative design is the perfect complement to the Universal DSL Balun



## Product Benefits

### Universal DSL Balun:

- Used for twisted pair to coax applications or coax to twisted applications
- Installed into NID/SNI outside or any wall box located inside the home
- Innovated dove tail channeling design provides perfect solution for multiple unit installs in MDU's, front terminals and/or any tight places where space is limited.



## Specifications

	Universal DSL Balun	DSL RJ Balun
<b>Capacity</b>	Converts balanced (twisted pairs) impedance of 100Ω to unbalanced 75Ω Coax Impedance	RJ11 twisted pair 100Ω impedance is separated from balun transformer with 3-pole hi-pass filter to avoid impact on voice band
<b>Twisted Wire Port Impedance</b>	100Ω	100Ω
<b>Coax Port Impedance</b>	75Ω	75Ω
<b>Withstanding Voltage</b>	DC 500 V, (2 sec; Ic=10mA)	DC 500 V, (2 sec; Ic=10mA)
<b>Insulation Resistance</b>	> 10M Ω	> 10M Ω
<b>Insertion Loss (typical)</b>	< 0.5 dB 25kHz to 8.5 MHz	< 0.5 dB 25kHz to 8.5 MHz
<b>Return Loss (typical)</b>	12 dB @ 25 kHz / 28 dB @ 100 kHz >25 dB from 138 kHz to 8.5 MHz	12 dB @ 25 kHz / 28 dB @ 100 kHz
<b>Connection</b>	Twisted pair (100Ω) to RJ11 connector	Coax cable (75Ω) to coax connector

## Ordering information

**Comtest product**      **Ordering code**  
 Universal DSL Balun .... SA-2250-0001  
 DSL RJ-Balun ..... SA-2251-0001

*Comtest's extensive support and distribution network meets the needs of service providers, equipment manufacturers and installers on six continents every day. Our goal is to deliver innovative solutions to critical elements of the network while maintaining reliability, quality and on-time delivery at a competitive price.*

*All of Comtest's products have a limited three year warranty against manufacture defects.*