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CATV Patch Cord balun, 2.4GHz, Shielded RJ45



The CATV Patch Cord allows traditional 75-ohm coaxial cable to be replaced by a single pair of Shielded Cat 5 STP cable, Used in pairs, the CATV Balun allows broadband CATV equipment to be integrated into structured cabling systems thereby allowing CATV equipment to be moved or added to any convenient modular wall outlet. It provides a versatile cabling solution for broadband video systems used by schools, government, corporations, hospitals, financial institutions, hotels and convention centers.

The CATV balun works in conjunction with CATV splitters, amplifiers and cable modems for a total cabling solution.

Features:

- No AC power or batteries needed.
- Bi-directional signal conversion.
- Shielded RJ45 plug with coaxial cable
- Easy installation

Specification:

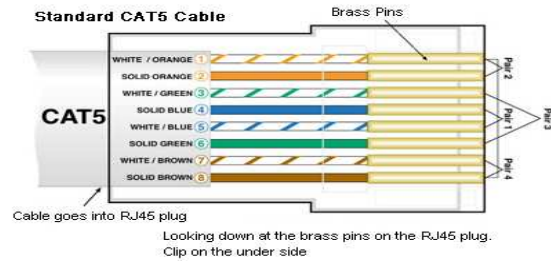
Environment	Private and public broadband CATV.
Devices	CATV, satellite receivers, VCR and other broadband video equipment.
Bandwidth	5MHz to 2.4GHz
Impedance	75 ohm to 100 ohm
Insertion loss	-5dB typical 5MHz~10MHz -3dB typical 10MHz~1 GHz -8dB typical 1GHz~2.5GHz
Return loss	-18dB typical 5MHz~1GHz -15dB typical 1GHz~2.5GHz
Common mode rejection	-20dB typical
Connectors	Shielded RJ45 Plug pins 8+/7- F (<i>Male or Female</i>) or PAL (<i>Male or Female</i>) is optional
Cable-STP	Cat 5 or better, 24 gauge typical Max. capacitance :20pf/ft Attenuation: 6.6dB/1000ft at 1MHz
Cable-Coax	Impedance: 75ohm at 10MHz Attenuation: 194dB/km at 200MHz
Max. distance	30m on Cat.5 cable, 24AWG
Environment required	Operating temp. 0 to 55°C Storage temp. -22 to 85°C Humidity up to 95%

All contents above are subjected to change without notice.

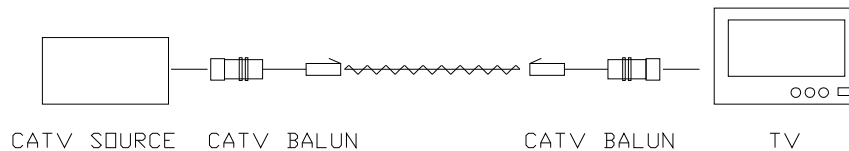
Installation:

- The balun requires one pair of STP cable to send the CATV signal, two baluns be used in pair are required.
- Run in your STP Cable between CATV source and TV. Put Cat5 Cable into the RJ45 Plug as the following diagram of standard connection order carefully. It is easy to make the mistake at this step. Therefore, please make sure you get all the cores into RJ45 plug in correct order and all cores go to the end of RJ45 plug before crimping. The brass pins will be pressed in to the individual cores and locked the plug on to the cable by crimping tool.
- Connect the 2.4GHz CATV Baluns to source and the TV.

Pin	Color of Core
1	White / Orange
2	Solid Orange
3	White / Green
4	Solid Blue
5	White / Blue
6	Solid Green
7	White / Brown
8	Solid Brown



Application:



Troubleshooting:

No Picture:

Wrong wire colors have been used in wrong order please recheck the connection order.

The cable is damaged or there is a short or open circuit on the wire, please replace the wire.

Poor Picture:

Cable runs too long. The picture will deteriorate if the Cat 5 cable runs too long. 50 meters is the maximum distance for a passive balun.

Strong magnetic and/or electric field might affect picture quality, please keep hook-up away from them.

Check if qualified cables had been used, poor cables might affect pictures quality.

Warranty:

Lemar warrants that this product is to be free from defect in materials and workmanship, for a period of one year from the date of the purchase.

The warranty given by Lemar is in lieu of any other warranties, express or implied. This warranty does not apply to units abused through misuse or subjected to improper and/or excessive voltage, beyond our control. Lemar assumes no responsibility for damages or penalties incurred resulting from the use of this product. Lemar's liability under any warranties shall be discharged by replacing or repairing, at our option, the defective product. Lemar's liability for any product shall not exceed a refund of the purchase price. The warranty listed here is intended only as a summary of your full and complete warranty.

Caution:

Do not attempt to open the body, as there are no user-serviceable parts inside Balun. Opening the unit will void your warranty.