

## Cross Coil



## DESCRIPTION

The Cross-Coil has been developed in cooperation with Audio Technology, Denmark, producing high-end drivers for the world market.

No chain is stronger than its weakest link. This is especially so when we speak of loudspeakers, where there is often a cost reduction for crossover inductors. The result is distortion and power loss.

High-end loudspeaker producers overcome this problem by using foil coils, where the copper is flat instead of round.

If you take a 1.6 mm<sup>2</sup> copperwire and roll it flat, the copper surface area becomes 12 times larger. And why is this an advantage?

- We know that with rising frequency, the electrons will reach for the surface. This phenomenon is known as power distortion. And this is why we need as large a surface as we can get, so the electrons do not "get squeezed" along the way.

Until recently, the only disadvantage with foil inductors was the price. But with Jantzen Audio's new production methods and specially constructed machinery, the price has been greatly reduced.

## SPECIFICATIONS

Jantzen Cross Coil gives your loudspeaker ballast in pure copper weight an extremely unexpected low resistance i.e. 16 AWG 2.70 mH (0.55 kg Cu) RDC 0.600 Ohm. Coppertape width of 19 mm gives 1.33 mm<sup>2</sup> (16 AWG).

Every single Jantzen Cross Coil goes through specially developed Jantzen Anti-Oxidant Treatment and Measurement, which guarantees lifelong top performance.

A hardwood core makes it possible to wind the coils extra close. This results in a very low magnetoshinking factor and virtually zero FM distortion, which makes it very close in all respects to an "ideal inductor".

With Jantzen Cross Coil, you have an eminent opportunity to upgrade your existing loudspeaker system, and set them soaring to new performance heights

### **Futher technical informaition:**

- Tolerance on mH +/-2%
- Tolerance on RDC +/-5%
- Copper purity 4N
- Insulation: Polypropylene

Cross Coils sustain the following levels of power before saturation:

- 16 gauge: 350 watts RMS
- 14 gauge: 500 watts RMS
- 12 gauge: 650 watts RMS
- 8 gauge: 850 watts RMS

All coils are checked by measurements before leaving the factory, ensuring life-long superior performance.

