

## Libra and Cratos Power Cables



Black Rhodium announces the launch of the LIBRA and CRATOS mains power cables.

Both cables have been designed with for low 'Transient Phase Distortion' by increasing the thickness of the inner insulation to 1.2mm.

The benefit of thicker insulation is that when two electrical conductors carry an electrical current, the magnetic field produced by the current in one conductor affects the resistance of the other conductor. This is known as the 'Proximity Effect'. Because the loudspeaker load is reactive, the current and voltage in the speaker cable are not in phase and the modulation effect produces a 'Transient Phase Distortion' signal that distorts sound quality. By moving the conductors of LIBRA and CRATOS 2.4mm from each other, the magnetic field (which reduces inversely proportionally to the distance) on the other cable is lowered and the 'Transient Phase Distortion' is less audible.

This effect can easily be observed when listening to complex musical signals such as massed choirs and large orchestras.

LIBRA is designed for use with low current equipment such as CD players, turntables, preamplifiers etc to deliver the very best sound without the expense of giving the cable a high current carrying capacity. LIBRA is suitable for all equipment that requires less than 5 amps of continuous current.

CRATOS is designed for high power amplifiers and power distribution systems and has a continuous current capacity of 15 amps.

LIBRA and CRATOS have many of the features of previous Black Rhodium power cables that have made them very popular with users of high quality equipment.

- The positive and negative cores are connected in opposite directions. Experience shows that when cables are connected this way (and both cables are connected in the same direction) the noise floor between the musical notes lowers. This gives 'blacker' silences in the interval between musical notes and enhances reproduction of the musical edges and natural decays in music.
- Silicone rubber insulation is used because its low dielectric loss ensures extremely low distortion due to dielectric absorption effects in which sound energy is absorbed in the

insulation and released at a later interval of time to create highly audible time-smearing distortion.

- LIBRA and CRATOS are both very flexible and as a result are much more convenient to use than cables that are less flexible.

#### Specifications

<b>LIBRA</b>	<b>CRATOS</b>
Conductors – 16 x 0.2mm tinned copper Conductor size 0.5 sq mm - 20 gauge Insulation: Silicone rubber type GPC Inner insulation thickness 1.2mm Cable outer diameter 9.1mm Current Rating: 5A	Conductors – 30 x 0.25mm tinned copper Conductor size 1.5 sq mm - 15 gauge Insulation: Silicone rubber type GPC Inner insulation thickness 1.2mm Cable outer diameter 11mm Current Rating: 15A