

# Clearer Audio™

## **Silver-line Optimus 110 Digital Interconnect Specifications**

### Conductors:

- Positive and negative cores:
  - 6N OCC Silver (99.9999%)
  - Multi-strand-solid (MSS) conductors
  - Foamed Polyethylene (FPE) Dielectric
- Ground:
  - 6N OCC Silver-plated Copper (99.9999%)
- Resistance - 32.21Ω/km
- Capacitance - 54nF/km
- Impedance - 110Ω

### Shielding:

- Dual-layer Copper Foil Shield
- 6N OCC Silver-plated Copper (99.9999%) Braid Shield
- Dual-layer Copper Foil Shield
  
- Silver-plated Nylon Braid

### Super Suppressor (x2):

- Custom Ferrite Ring
- Impedance @ 25MHz = 71 Ω
- Impedance @ 100MHz = 125 Ω

### Silver Solder:

- Lead and halogen free
- Tin: 94%
- Pure Silver: 5.5%
- Pure Copper: 0.5%

### Connectors:

- Neutrik XX Series XLR
  - Shell: ZincAluminium4Copper1 alloy, with galvanised Nickel over Copper-plating
  - Contacts: CopperTin6, Silver-plated to 2 $\mu$ m
  - Contact resistance  $\leq 3\text{M}\Omega$
  - Insulation resistance:
    - initial:  $> 2\text{G}\Omega$
    - after damp heat test:  $> 1\text{G}\Omega$
  - Dielectric strength: 1500 V dc
  - Rated current: 16A
  - Capacitance between contacts:  $\leq 4\text{pF}$