ESOTERIC

7N-DA6100ES Mexcel CLOCK-BNC 1M

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Unmatched precision and clarity of sound – the contrast between the crisp, direct signal and the smooth ambience reveals a rich range of expression. The power and overwhelming sense of scale are so vivid that you can almost see the real instruments being played right before your eyes. The Mexcel Reference Line is Esoteric’s top-of-the-line cable series, reflecting a deep sense of pride in its sonic performance. It features a 2.0mm-thick solid-core Mexcel center conductor, delivering unwavering energy in the mid-to-low range. The 3-layer shielding, an ultra-thin rectangular Mexcel braid, copper Mylar tape, and a thick silver-coated copper braid, enhances the signal-to-noise ratio and provides thorough noise protection.

PRODUCT DETAILS

Philosophy of Esoteric Mexcel Cable
“To new frontiers in cables that have never been reached before”. – Esoteric Mexcel’s philosophy has never changed since its inception.
At ESOTERIC, our dedication to music goes hand in hand with our unwavering commitment to hardware innovation. Our passion for music and proven track record in hardware development, combined with the insights of our music production team has consistently driven the evolution of cables, passing the baton from one generation to the next. Since their launch in 2004, Mexcel cables have continuously supported high-quality audio playback and music production with their outstanding musical expression. Esoteric’s Super Audio CD/LP reissue series featuring over 300 albums relies on Mexcel cables for all mastering.
The Mexcel cables, developed from specialized knowledge gained in high-performance aerospace and defense cable design, achieve wideband transmission that exceeds the gigahertz (GHz) range. The wealth of information enabled by gigahertz transmission, together with the high purity of 7N Cu (99.99999%), Beloved by recording professionals, musicians, and audiophiles alike, Mexcel continues to prove its exceptional musicality and open the door to a bold new frontier in hi-fi audio cables.

Mexcel Reference Line
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Mexcel Cable Technology – “Gigahertz Flat” Transmission
The main feature of Mexcel cables is their uniform impedance, which remains stable even up to the GHz band, allowing for the transmission of signals with consistent impedance. Mexcel utilizes conductor material technology based on the Medis electrodeposition insulation method, a manufacturing process similar to electroplating for insulating resin. This innovative technique ensures uniform insulation regardless of shape – including flat wires, which are traditionally difficult to insulate around the corners.
By insulating the surface of the wire, the conductor area is maximized, effectively preventing the attenuation of high-frequency characteristics caused by the skin effect. As a result, we have achieved wide-range “Gigahertz Flat” transmission characteristics.

“Gigahertz Flat” Transmission
Flat transmission characteristics up to the gigahertz band (1GHz = 1 billion Hz) allow digital signals to be transmitted with accurate waveforms without distortion. In analog transmission, this technology ensures flat frequency characteristics across the entire audible band, contributing to extremely fast attack and beautiful decay.

Achieving 99.99999% purity, Mexcel cables are highly resistant to physical stress and maintain high transmission characteristics at all times.
D.U.C.C.* 7N Cu is used as the main conductor. With a purity of 99.99999%, it is produced using a raw material manufacturing process equivalent to that used for semiconductors, which demands the highest level of quality assurance. The total metallic impurity content is strictly controlled and guaranteed to be 0.1 ppm or less. Additionally, even against the degradation of crystal structure caused by bending during use, stress-free processing, developed by AcroLink, ensures that the conductor remains in an optimal state. This is achieved through self-annealing at room temperature, preserving excellent transmission characteristics over time.

* D.U.C.C. - The larger the crystal grains in a conductor, the better the sound quality. D.U.C.C. (Dia Ultra Crystallized Copper) is a high-purity copper conductor for audio applications that has crystal grains that are tens of times larger than those of ordinary pure copper, and the orientation of the crystals has also been optimized.

Mastering-Grade Custom BNC Connectors: Engineering Know-How for Uncompromised Sound Quality
The 50 BNC connector, ideal for transmitting 10MHz clocks, was developed under the supervision of Masaya Tono, Chief Mastering Engineer at Esoteric Mastering Center. Every material used in each component was carefully selected through meticulous listening tests, with extensive auditions conducted by changing material combinations and plating to achieve the highest sound quality.
The hot signal center pin is crafted from solid phosphor bronze, a rare and expensive material known for its exceptional sound quality. For plating, 24K gold plating was chosen, as it delivers a warm and mellow sound, ideal for mastering classical music. To prevent sound quality variations due to magnetism, the gold plating is applied directly to the phosphor bronze center pin, without any nickel undercoating.

The cold signal shell is constructed from high-quality phosphor bronze and finished with “silver + rhodium” plating, ensuring superior signal integrity.

The connector tip that locks the 7N-DA6100ES connectors is made of duralumin, a material renowned for its excellent vibration-damping properties. Combined with a heavy-duty housing, it minimizes vibration at the cable-to-unit connection, further enhancing sound quality.

Key Features

- High-Quality BNC Cable: Ideal for 10MHz master clock transfer.
- Specially Tuned: Under the Supervision of Chief Mastering Engineer at Esoteric Mastering Center.
- 50 custom BNC connectors: Incorporating know-how from high-quality music software mastering.
- Mexcel Gigahertz Flat Transmission Technology: flat impedance response up to the GHz band.
- D.U.C.C. 7N Cu (purity 99.99999%) Main Conductor
- The 2.0 mm Thick Solid Core Mexcel Center Conductor: Super dynamic mid-low frequency.
- 3-Layer Shield: Ultra-thin rectangular Mexcel braid + copper Mylar tape + thick silver-coated

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copper braid

- Solid Machined Phosphor Bronze + Direct 24K Gold Plated Center Pin: Ideal for classical music with its smooth sound quality.
- High-Quality Silver + Rhodium Plated Phosphor Bronze Cold-Signal Shell
- Duralumin Connector Lock: Provides excellent vibration damping effect

Specs

Product Attributes

EAN:	4907034225767
Manufacturer number:	7N-DA6100ES
Product weight:	1.0 kilograms

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