



ESOTERIC

7N-DA3100ES Mexcel CLOCK-BNC 1M

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The Mexcel Premium Standard Line (7N-DA3300/DA3100 series) is the core model of the Mexcel cable series, uncompromisingly following the essence of the flagship Mexcel Reference Line. The “Gigahertz Flat Transmission” technology, which enables flat transmission up to the GHz band, is also incorporated into this series. The excellent frequency response enhances spaciousness, dynamics, and texture in the sound, all of which remain exceptionally pure. The high level of musical expressiveness, a hallmark of the Mexcel series, creates an openness so profound that you hardly notice the cables in your audio system. The 7N-DA3300 is a 2-core + shielded XLR balanced cable, while the 7N-DA3100 is a coaxial cable (RCA, BNC). Both models feature a 0.8mm solid-core (single-core) Mexcel center conductor, ensuring powerful, unwavering sound quality. Additionally, thick silver-coated copper braided shielding is employed to enhance the signal-to-noise ratio.

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 Premium Standard 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 0.1ppm 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 housing of the 7N-DA3100ES is made of carbon fabric and an aluminum sleeve, providing both vibration-damping and noise-reducing properties to maintain pristine audio performance.

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 0.8mm Thick Solid Core Mexcel Center Conductor: Dynamic mid-low frequency
- Thick Silver-Coated Copper Braid Shield: Provides excellent S/N ratio
- 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
- Carbon Fiber + Aluminum Plug Sleeve: Provides vibration-damping and noise-absorption effect

Specs

Product Attributes

EAN: 4907034225804

Manufacturer number: 7N-DA3100ES

Product weight: 1.0 kilograms