



FTVS-910 Balanced 110 Ohm Cable



<p>FTVS-910</p>  <p>シース: UV カットポリウレタン シールド編組: 銀メッキ銅 シールド: 銅箔テープ巻き 絶縁層: マイラーフィルム 半導体層: 導電 PE (カーボン) 絶縁体: 発泡ポリエチレン スキン層: 厚テフロン (0.5mm) 導体: 5N 銀線 (1.05mm×2)</p> <p>Impedance 100 Ohm Capacitance 72.1 nF/Km Attenuation 74.5 dB/Km Resistance 25 Ohms/Km</p>	<p><u>Conductor</u></p> <p>Pure silver is the best material for high-speed transmission due to its excellent electrical conductivity which is far superior to high-purity copper. However, the price of silver continues to rise ever higher making it one of the rare metals. For the core of FTVS-910, 5N jewellery grade pure silver, which is far better than industrial grade, is used. After being melted in a ceramic crucible, it is moulded into 15mm diameter round bars. It is further reduced in diameter by means of 19 repetitions of the cold rolling process. Afterwards, the silver wire is further reduced to 1.05mm by a low-speed drawing process. After the final rolling operation and mirror surface finishing, stress and strain that is generated by the drawing process is slowly removed by a lengthy annealing operation in a high-frequency electric furnace filled with inactive gas to prevent the silver from combining with oxygen. The completed ultra-pure silver wires are immediately packaged in nitrogen gas and are safely stored until the next process.</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Insulator

Although the conductor is the most important factor in signal transmission, the insulator is also significant in enhancing the transmitting capabilities of the cable. For the purpose of lessening signal loss, we employed Teflon which provides excellent electrical isolation and low electric permittivity. For the first insulation layer, we selected PE (Polyethylene) which keeps permittivity to a minimum and enhances the flexibility of the cable. This layering of these different materials not only enhances the conductor's electric capabilities but also attenuates internal vibration by altering the resonance point.

Triple-layered shielding structure

When we conceived of the FTVS-910 our goal was unlimited transparency. The ultra silent background of the FTVS-910 is provided by a triple-layered shielding structure. The first semiconductor layer attenuates static noise and electric micro waves. The second copper foil shielding protects against high-frequency noise. The third, silver plated mesh shielding, protects against low-frequency noise. It also protects against high-frequency noise by means of the skin effect on the silver plating.

Semiconductor layer

Although Teflon has a great electric characteristic, we needed to adopt a method for static electricity removal due to the fact that teflon charges easily. When signal flows in a cable, it generates ultra weak vibrations which cause the discharge of an electric corona. In order to solve this problem, we installed Carbon PE as a semiconductor layer. By surrounding just the outside of the first insulation layer, this semiconductor layer helps to discharge static buildup from the Teflon layer in an orderly fashion.

The exterior

The beautiful and clear urethane sheathing has excellent mechanical strength and always maintains a stable level of hardness without being affected by temperature change. Moreover, due to its high shock absorption and degree of elasticity, polyurethane provides powerful isolation from vibrations. Outside diameter is 8.5mm.

Distributed in the UK by Black Rhodium. www.blackrhodium.co.uk

01332 342233 sales@blackrhodium.co.uk