



F1, M1, M1e, F1 20 Palladium over Platinum plated Power Connectors

 <p>Audio Excellence Award 2007</p>	 <p>Visual Grand Prix 2007</p>			
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The M1 and F1 series connectors were designed making no compromise as a flagship model for Oyaide. The M1/F1 represents a major in cutting edge technology advance over the the P/C series.

Materials

Because they are so simply assembled, we have to closely examine the qualities of each component. The characteristics of each component are harmonized to complete the M1/F1 as the ultimate product.

The inner housing of the M1/F1 is made from Delrin for its machining characteristic and superior electrical isolation. And the outer casing is made of aluminium with alumite treatment for superior noise reduction.

These are cut out from 40 mm round bars by NC machining and then nearly 85% of the original material is discarded (Delrin – 90g to 20g / Aluminium – 190g to 25g). The exquisite cutting accuracy is brought by Japanese craftsmanship.

				
Connector housing	Connector assembly	Entry part for cables	Polishing the Contacts	IEC Connector

Body

30% glass filled PBT has excellent machine-ability and provides superior electrical isolation. The highly rigid body of the M1/F1 effectively attenuates high-speed vibrations. All screws, which were originally designed for M1/F1 and P/C series, are made of highly rigid non-magnetic stainless steel. Moreover, the cable cannot be separated from the plug by a force less than 30kg, a significant safety feature.

Contacts

The best material have been used for the Premium Series, we employed beryllium copper for its superior conductivity and excellent mechanical characteristic.

The contacts of M1/F1 are heat treated to insure electromechanical integrity. The 1.0mm thick and 6.0mm wide contacts provide maximum contact area, have more than 8kg of holding power and reduce vibrations at the point of contact with no loss of signal transmission.

Dual Monocoque housing

M1/F1 have to satisfy the requirements of high performance and safety. Its beautiful design was produced almost spontaneously as a result of pursuit for functionality. The inner housing is made from Delrin for its superior mechanical strength, excellent vibration damping properties and noise reduction capability. Because the turbulence of magnetic field is easily generated around connectors, we employed aluminum outer barrel for noise protection. This combination of materials produces high signal/noise ratio and attenuation vibration. Cables up to a maximum of 17mm diameter can be attached..

Plating

The connector material which was punched out as a part is polished by hand piece by piece after machined barrel-polishing. The plating of the M1/F1 is a combination of platinum and palladium which were selected as a result of repeated listening tests. The inner platinum layer is 0.5 microns thick and the outer palladium layer is 0.3 microns thick.

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