ACROSS 900 XX

Long awaited, the balanced type ACROSS is now available.

We at Oyaide Electric always strive for measuring up to customer's expectation. And we have tackled the development of new products by getting a clear grasp of user satisfaction. "ACROSS 900" was created by answering many customers' requests for release of balanced interconnects cable. Inheriting the basic concepts of ACROSS series such as C.I.S structure, halogen-free sheath and PCOCC-A conductor, ACROSS 900 was modified by upsizing its cable diameter for adding dynamism to its sound.

In contrast to its elegant caviar black exterior color, ACROSS 900 is constructed by several innovative ideas and novel design concepts.Its basic architecture is C.I.S structure which was produced to diffuse vibrations into the air chamber rather than being re-absorbed into the cable structure. This newly-developed structure enhances not only vibration damping property but electrical characteristic.

The Multi-stranded wire structure, originally developed for ACROSS series, is applied for maximum density and uniformity of wire structure and for infilling of internal space and preventing deformation among the wires.
Moreover, spiral shielding is employed for infilling of internal space as well as the conductor and its halogen-free sheath was specifically developed for audio use.

Since the product release of ACROSS 2000 in August 2006, ACROSS series have remained as long-selling products and are deeply admired in Japan and foreign countries.

PCOCC-A

PCOCC copper is a material that includes very few impurities and insures very low levels of signal disturbance. Because of its low incidence of grain boundaries, the signal passes without impediment or distortion. Heating and cooling the PCOCC wire under controlled circumstances yields a densely re-crystallized, highly pure structure called a µ conductor. The resulting product with a mirror finish applied is called PCOCC-A copper. This highly advanced product is made possible by the combined application of high technology and traditional Japanese craftsmanship.

C.I.S (Cross insulated stabilizer) structure

We have continuously been aiming to increase vibration damping property and noise protection capability. ACROSS 900 elevates interconnect cable to the new heights by applying C.I.S (Cross Insulated Stabilizer) structure developed specially for ACROSS series.
Since the C.I.S structure supports the central conductor not with surface but point, it is able to minimize mutual interference between the central conductor and the outside. And internally built vibration damper diffuses vibrations into the air chamber rather than being re-absorbed into the cable structure and passed along with the signal as distortion. The incomparable advancement of vibration control properties and superior electrical characteristics realizes excellent performance without any loss of transmission.

Multi-stranded wire

A core component of ACROSS 900 is PCOCC-A signal transmission unit, 0.78sq diameter, and forms Multi-stranded wire structure which was originally invented for ACROSS series and reflects our solid design concept. Rather than twisting whole wires, the four-layered inverted concentric structure is employed for maximum density and uniformity of wire structure and for infilling of internal space and preventing deformation among the wires. Spiral shielding is applied to infill internal space and to prevent deformation among the wires as well as the conductor. The number of wires used for the spiral shield is about three times more than the number for the conductor.

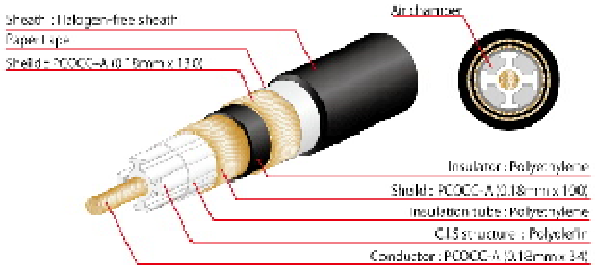
Insulator and sheath

In addition to PCOCC-A conductor, we employed halogen-free sheath developed specifically for audio applications. It is RoHS compliant and has excellent vibration damping property due to its compounding ratio of materials. It also has superior electrical characteristic which controls the elevation of relative permittivity and attenuation of electric quantity of bass sound. The insulator is made from polyolefin which has quarter of permittivity compared to common PVC. We paid careful attention to strengthen the cohesiveness of its insulator and conductor in order to infill random space and maintain a high-quality signal transmission.

Special Characteristic

Although ACROSS 900 gives an impression of a cable which is particularly effective in diffusing vibration because of its unique architecture, it also has high potentiality for transmission performance. Its electric capacitance is set to 68.0pF/m (1kHz) and characteristic impedance is set to 70Ω. Not only an innovative idea but also physical and numeric logic are necessary to realize excellent performance with no loss of transmission.

ACROSS-900



The XLR connectors (ACROSS 900 XX)

The basis of dynamic and powerful performance is completed by C.I.S structure and PCOCC-A signal transmission unit. The last piece that is necessary for maximizing potential of ACROSS cable is the XLR connectors.

We tested all XLR connector available on the market, and then the best XLR connector, silver plated XLR made by SWICHCRAFT, was selected.

Specification ACROSS 900 XX

Conductor	PCOCC-A
AWG	0.78Sq（34/0.18）/ Cold (100/0.18) / Sheld (130/0.18)
Cable Structure	C.I.S（Cross insulated stabilizer）
Insulation	Polymer Polyolefin
Insulation Tube	Polyethylene
Outer jacket	Halogen Free Polyethylene
Cable O.D.	9.7mm
Conductor resistance	8.4 Ω/km（at20℃）
Electric capacitance	68.0 PF/m
Characteristic impedance	70Ω
Connector	SWITCHCRAFT , silver plating XLR plug
Cable Length	0.7m / 1.0m / 1.3m
Release date	10/06/2008