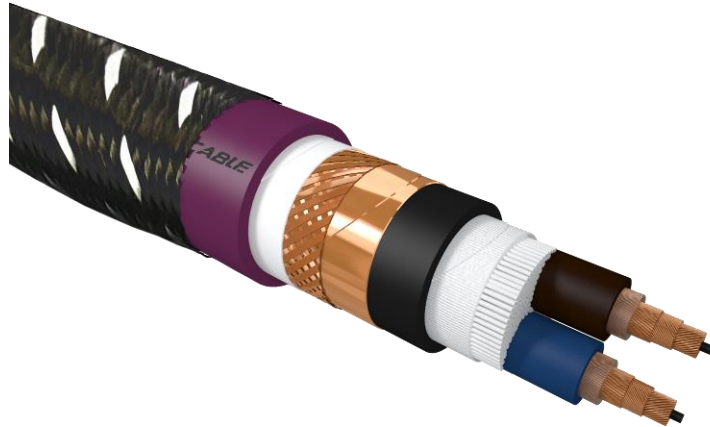


FURUTECH

PURE TRANSMISSION



Alpha OCC-DUCC Speaker Bulk Cable DSS-4.1

Furutech's α (Alpha) OCC-DUCC is one of a select few of conductors that Furutech engineers have found to excel in sound reproduction. α (Alpha) OCC –DUCC is constructed using a combination of DUCC Ultra Crystallized High Purity Copper and Furutech's world famous Pure Transmission α (Alpha)-OCC.

Furutech DUCC Ultra Crystallized High Purity Copper -- supplied and regulated with strict quality control by Mitsubishi Materials Industries -- is one of the best conductors Furutech engineers have found for signal transmission. (MMI is the leading manufacturer of the highest-purity oxygen-free copper in the world) Mitsubishi process this extremely pure oxygen-free copper with new technology that optimally aligns the crystals while reducing the number of crystal-grain boundaries resulting in a tremendously efficient conductor. Straight OCC's benefits are its larger "fibrous" crystals in which one dimension is longer than the other two so as to create as few crystal junctions as possible. Thus, OCC's sensitivity to directionality; one path exhibits the least resistance. Furutech's world famous Pure Transmission α -OCC is the result of further processing with the Alpha Super Cryogenic and Demagnetizing treatment. However, DUCC purity goes a significant step further. Mitsubishi Materials designed the new conductor to optimally align the copper crystal grain structure in addition to reducing crystal grain boundaries. As a result, DUCC is less sensitive to directionality than OCC.

Construction and Material

Item		Specification
Conductor	Material	Alpha-OCC + α -DUCC (7N Class)
	Construction (pcs / mm)	Center – 1/0.8 NCF PE core Inner - 89/0.18 α -OCC (Right rotate) Middle - 39/0.18 α -OCC (Left rotate) Outer - 62/0.13 α -DUCC (Right rotate)
	Diameter (mm)	2.58 Approx.

	Size	11AWG / 4.08 Sq.mm
Insulation	Inner Material	Audio Grade FEP (Fluoropolymer)
	Outer Material	Audio Grade P.E.(Brown for "+", Blue for "-")
	Diameter (mm)	5.5
Twisting	Method	2 Cores Twisted Together
Fillers		Polyester fibers Filler
Barrier Layer-1		Non-Woven Fabric wrap
Inner Sheath	Material	Audio Grade Flexible PVC (Black) Nano-Ceramic / Carbon particle compound
	Diameter (mm)	15.0
Shield	Material	Cu-Foil + Braided OFC
Barrier Layer-2		Paper wrap
Outer Sheath	Material	Audio Grade Flexible PVC (Dark purple)
	Nom. Thickness (mm)	1.2
Outer Sleeve	Material	Nylon yarn stranded braid(Black/Silver)
Overall Diameter (mm)		18.5 Approx.

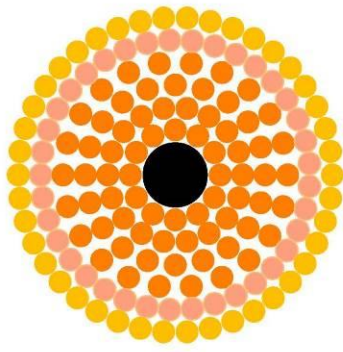
Electrical Properties

Item		Specification	Test Method
Max. Conductor Resistance	Ω / km	4.5	JISC3005 6 20°C
Insulation Resistance	$\text{M}\Omega \cdot \text{km}$	>2500	JISC3005 9.1 20°C
Capacitance	PF/M	51.69 Approx.	at 1 KHz
Inductance	$\mu\text{H/M}$	0.7 Approx.	at 1 KHz
Dielectric Strength	V/1 min.	AC 3000	JISC3005 8

Enlarged conductor strand image

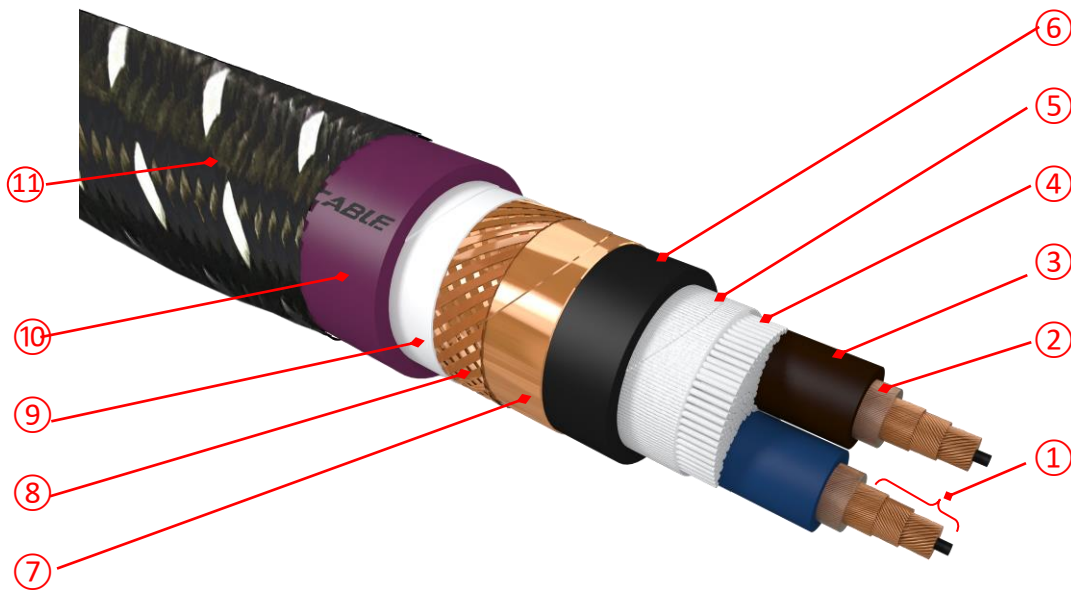
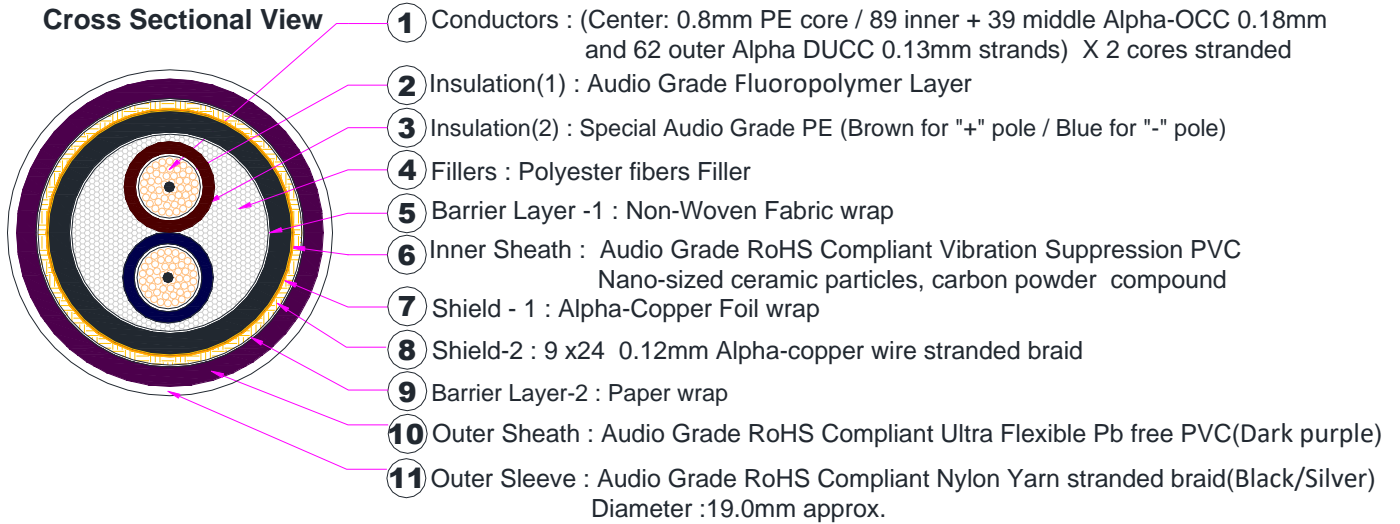


Conductors strands Direction :



- Center 1/PE core
- ⌚ Inner 89/Alpha OCC Right rotate
- ⌚ Middle 39/Alpha OCC Left rotate
- ⌚ Outer 62/Alpha DUCC Right rotate

Cross Sectional View



DSS-4.1 Speaker Cable Construction

DUCC Ultra Crystallized High Purity Copper -- Registered Trademark by Mitsubishi Materials Industries

Make a More Powerful Connection with Furutech!

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Product name	Product Introduction	JAN CODE
Alpha OCC-DUCC DSS-4.1	Speaker Bulk Cable	

