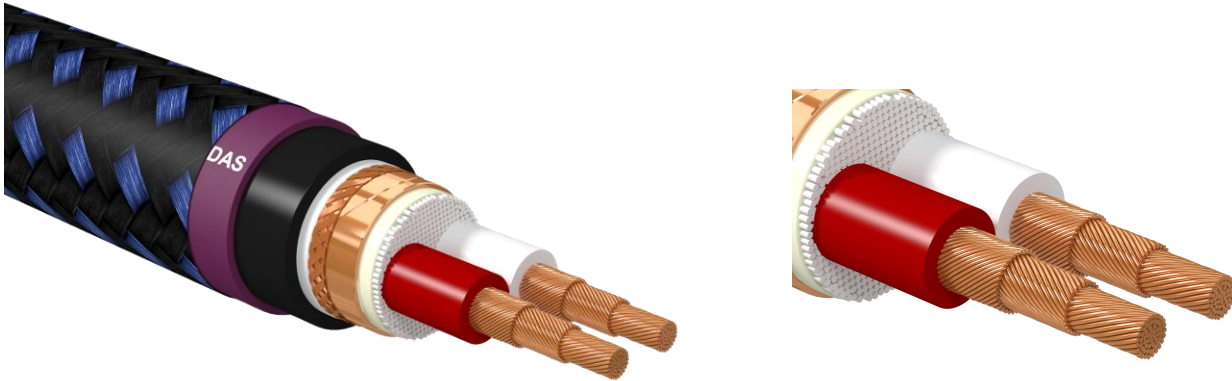


FURUTECH

PURE TRANSMISSION



Alpha OCC-DUCC DAS-4.1

Balanced Interconnect Bulk Cable (30m/98.4ft/Reel)

D.U.C.C. (Dia Ultra Crystallized Copper)

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 and supply control by Mitsubishi Materials Industries -- is one of the best conductors Furutech engineers have found for signal transmission.

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. Furutech combines DUCC with Furutech's world famous Pure Transmission α -OCC and treats this optimized dual conductor configuration with Furutech's Alpha Super Cryogenic and Demagnetizing process to take purity and conductivity a significant step further.

D.U.C.C. is a registered trademark of Mitsubishi Cable Industries Ltd.



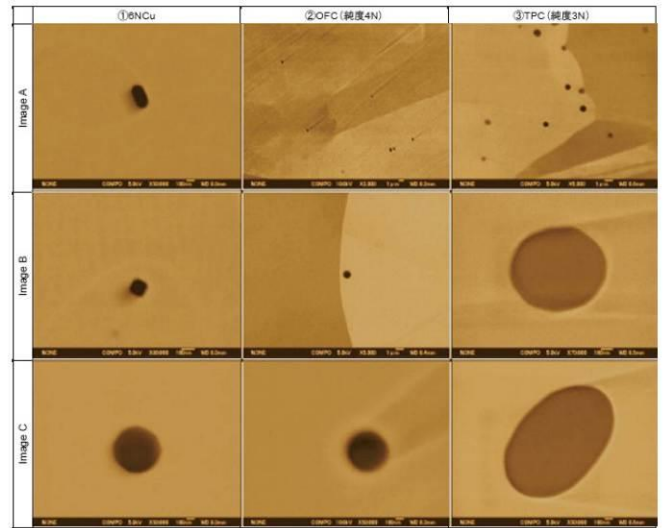
D.U.C.C.



一般的なOFC

D.U.C.C. と一般的なOFCの金属組織の比較

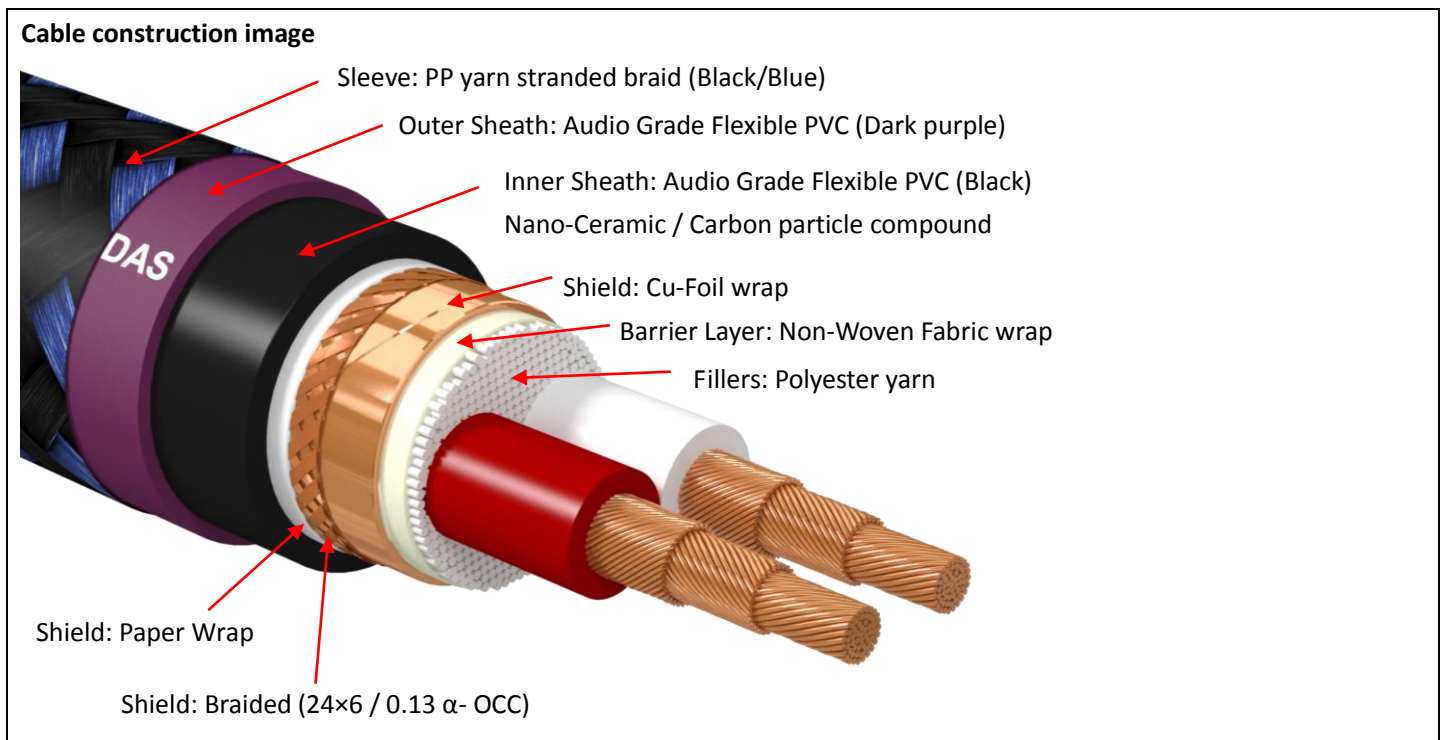
Comparison of microstructures of D.U.C.C and typical oxygen free copper conductors



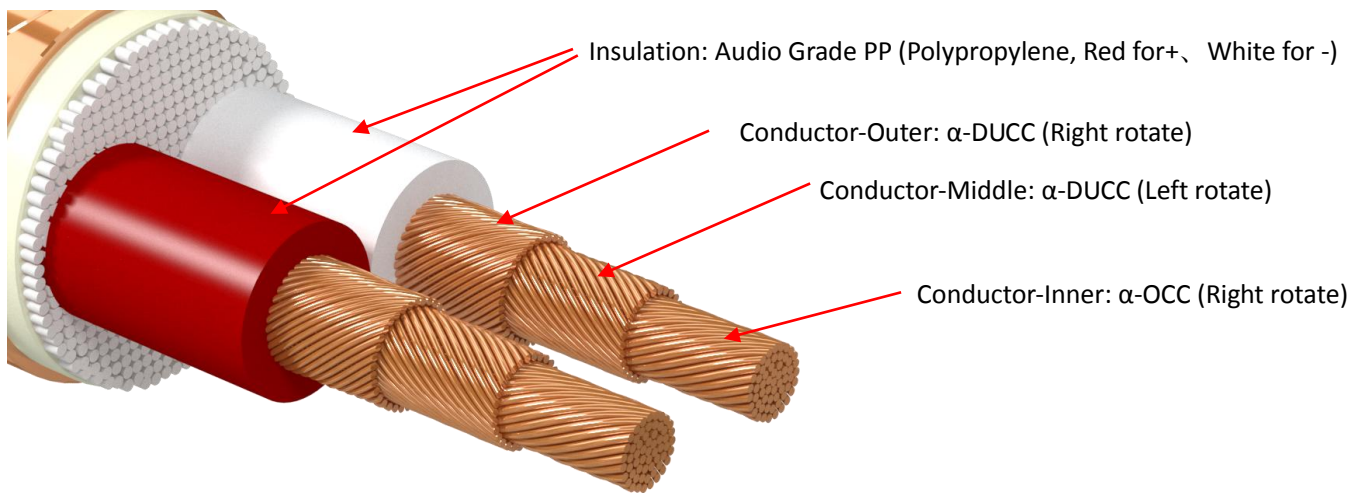
純銅中に観測された不純物のCOMPO像

Compo image of impurities observed in high purity coppers

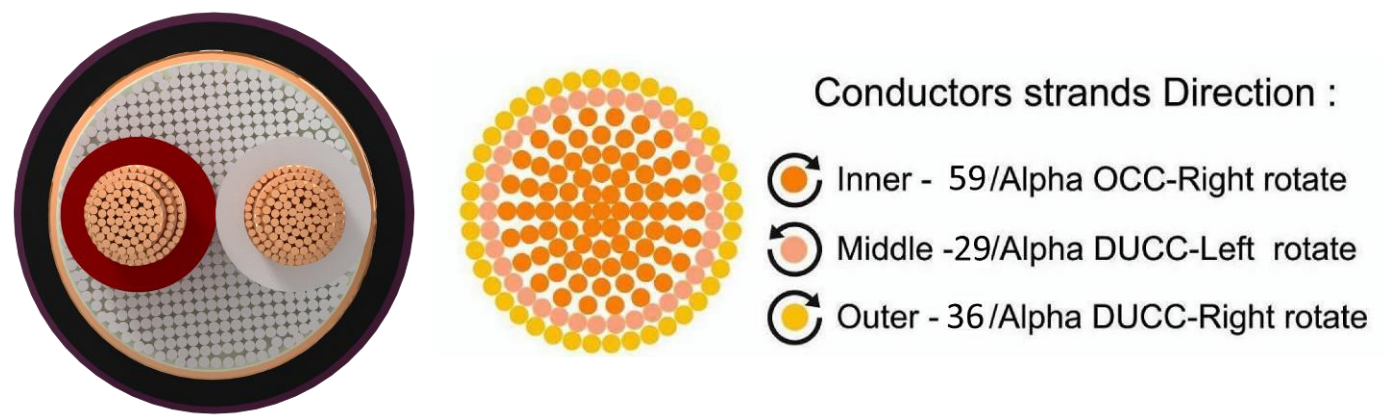
Alpha OCC-DUCC Balanced Interconnect Bulk Cable DAS-4.1 Cable Design



Conductor material explanation



Cross Sectional View



Construction and Material

Item		Specification
Conductor	Material	Alpha-OCC + α -DUCC (7N Class)
	Construction (pcs/mm)	Inner – 59 / 0.13 α -OCC (Right rotate) Middle – 29 / 0.13 α -DUCC (Left rotate) Outer – 36 / 0.13 α -DUCC (Right rotate)
	Diameter (mm)	1.67 Approx.
	Size	15AWG / 1.65 Sq.mm
Insulation	Material	Audio Grade PP (Polypropylene, Red for" + " 、 White for " - ")
	Mom. Thickness (mm)	0.47 Approx.
	Diameter (mm)	2.6 Approx.
Twisting	Method	2 Cores Twisted Together
Fillers		Polyester yarn
Barrier Layer		Non-Woven Fabric wrap
Shield	Method	Cu-Foil wrap + Braided (24×6 / 0.13 α - OCC) + Paper wrap
Inner Sheath	Material	Audio Grade Flexible PVC (Black) Nano-Ceramic / Carbon particle compound
	Diameter (mm)	7.8 Approx.

