

FURUTECH

PURE TRANSMISSION



α (Alpha) PC-Triple C Power Bulk Cable Alpha Pure Copper-Continuous Crystal Construction



FP-TCS31 (20M/Reel)

Furutech's α (Alpha) PC-Triple C is one of a select few of conductors that Furutech engineers have found to excel in sound reproduction. α (Alpha) PC-Triple C is made with Furukawa high-purity oxygen-free copper using a special forging process. Unlike regular OFC (oxygen-free copper), almost all of the impurities of this high-purity OFC have been removed at the micron level through a special casting process unique to Furukawa.

Purposely designed and developed for audio signal conductors, α (Alpha) PC-Triple C is flexible, strong and can be drawn into a very fine wire. This new conductor, while not single-crystal like PCOCC, features crystal grain boundaries that are almost totally free of impurities which allows even the smallest of signals to be transmitted. While PCOCC is a single-crystal conductor, it is susceptible to imperfections during production. Since α (Alpha) PC-Triple C employs a fixed angle continuous transport forging process, pressure is applied to the high-purity oxygen-free copper tens of thousands times. This ensures that any crystal grain boundaries that were present in a vertical direction become longitudinal, and the crystals become connected and uniform in their direction. This process also helps to remove the imperfections that are often found in PCOCC, which create a more conductive and acoustic conductor.

The resulting conductor has an extremely fine resolution down and through the very low noise floor, improved sound staging and image palpability, a musical, attractive, "round" midrange, tight and controlled bass, plus power and

dynamics to spare to set your music on fire!

How α (Alpha) PC-Triple C is made:

High Purity OFC

Cross section before forging



Power Flow $\rightarrow\rightarrow\rightarrow$

Crystal grain boundaries are in all directions, not allowing smooth signal transmission



Power Flow $\rightarrow\rightarrow\rightarrow$

Continuous transport forging elongates the crystals...

Cross section after forging



Power Flow $\rightarrow\rightarrow\rightarrow$

...until the crystals form a longitudinal direction allowing for smooth signal transmission

Second process

The fixed angle continuous transport forged conductor is then subjected to further elongation and pressing processing to create the super fine conductors. The conductors then go through a time and temperature annealing process which fuses the crystals to each other. The finished conductor is now α (Alpha) PC-Triple C.



Cross section of α (Alpha) PC-Triple C

「Characteristics」

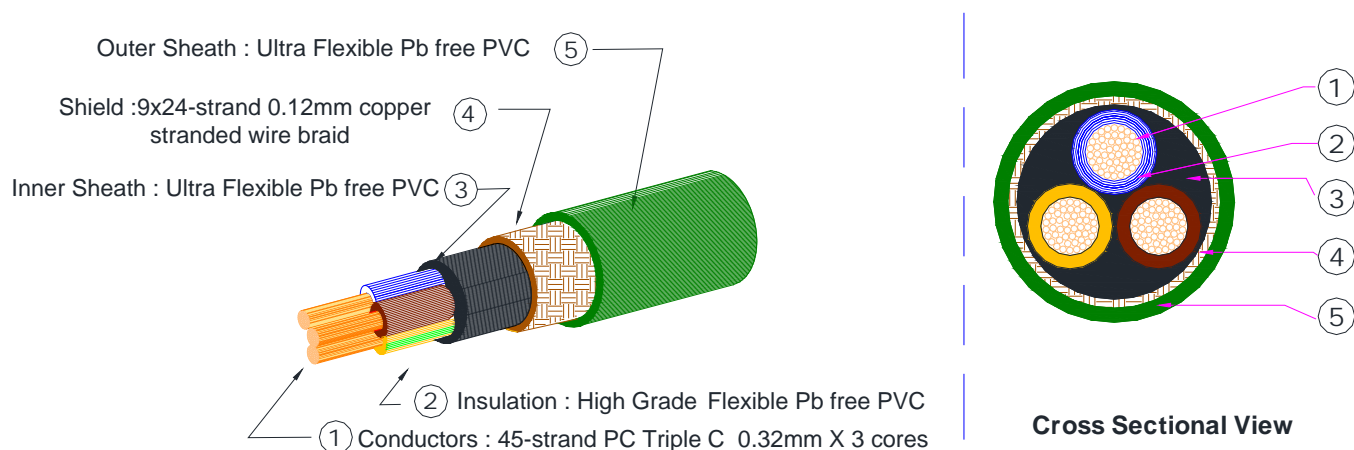
- 1. Purity > 99.996%
- 2. Conductivity (EC) \cong 101.5 IACS%
- 3. Tensile strength (TS) \cong 250 MPa
- 4. Elasticity (E) \cong 35% Wire(1.3mm ϕ)

Construction and Material

Item		FP-TCS31
Conductor	Material	Alpha PC Triple C
	Construction (pcs / mm)	45pcs / ϕ 0.32 mm
	Diameter (mm)	2.5
Insulation	Material	Flexible PVC (BROWN 、 LIGHT BLUE 、 Green + Yellow)
	Nom. Thickness (mm)	1.25
	Diameter (mm)	5.0
Twisting	Method	3 Cores Twisted Together
Inner Sheath	Material	Flexible PVC (Black)
	Diameter (mm)	12.0
Shield	Method	0.12mm OFC Wire Braid
Sheath	Material	Flexible PVC (Dark Green)
	Nom. Thickness (mm)	1.7
Overall Diameter Approx. (mm)		16.0

Electrical Properties

Item	Specification	Test Method
Max. Conductor Resistance Ω / km	5.24	JISC3005 6 20°C
Min. Insulation Resistance $M\Omega \cdot km$	5	JISC3005 9.1 20°C
Dielectric Strength V / 1 min.	AC 3000	JISC3005 8



FP-S35TC Cable Construction & FP-TCS31 Cable Construction

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