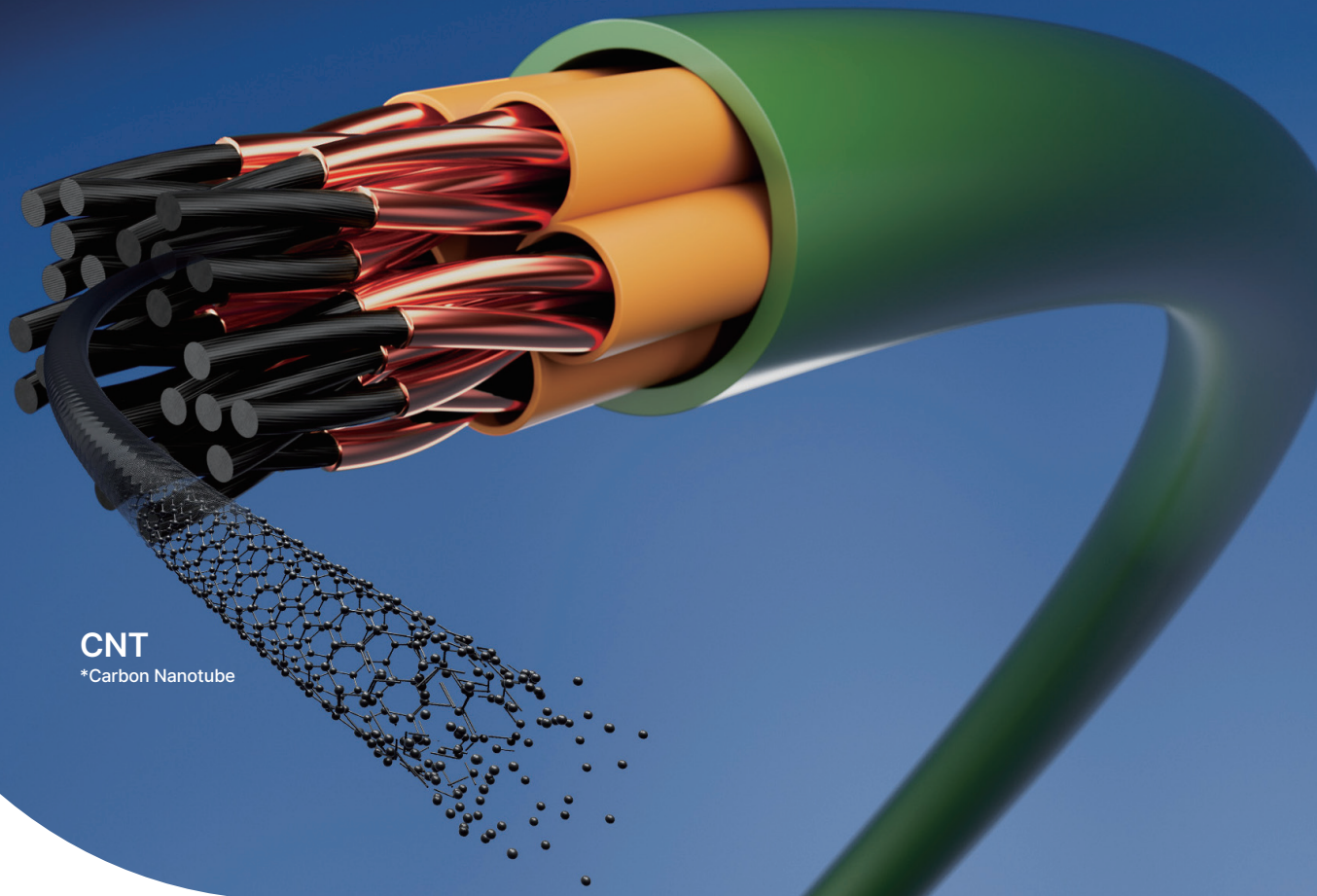


INFINITE POSSIBILITIES

We craft **CNT** into
Breakthrough Innovations



CNT
*Carbon Nanotube



axrial electric is a conductive composite wire made by coating CNT yarn with metal— typically copper. It delivers copper-level conductivity at just 20 percent of the weight. It is lightweight, flexible, and built to endure, making it a strong fit for wiring in EVs, drones, and urban air mobility systems.

**Electrical
conductivity**

50MS/m

Tensile strength

1.0-5.0N/tex

Infinite Possibilities

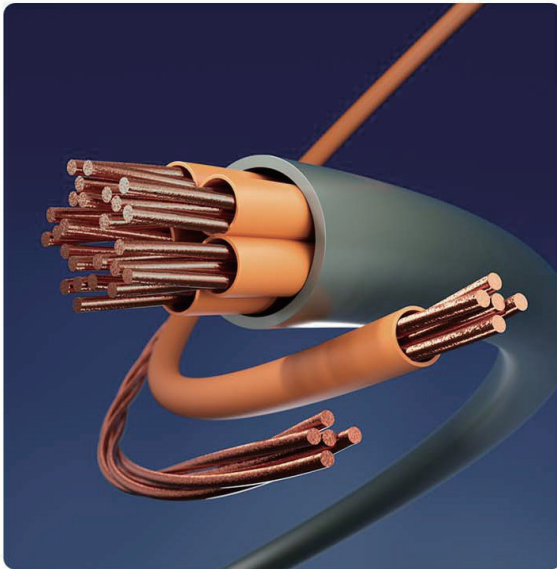
We craft CNT into Breakthrough Innovations



Pain point

Traditional copper wires are heavy, stiff, and prone to performance loss or breakage due to fatigue over time. That is why there is growing demand for lightweight conductors with strong electrical performance, especially in next generation mobility systems like electric vehicles, drones, and urban air mobility.

Conventional copper cables



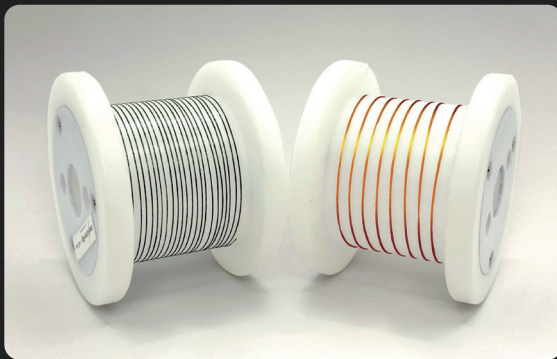
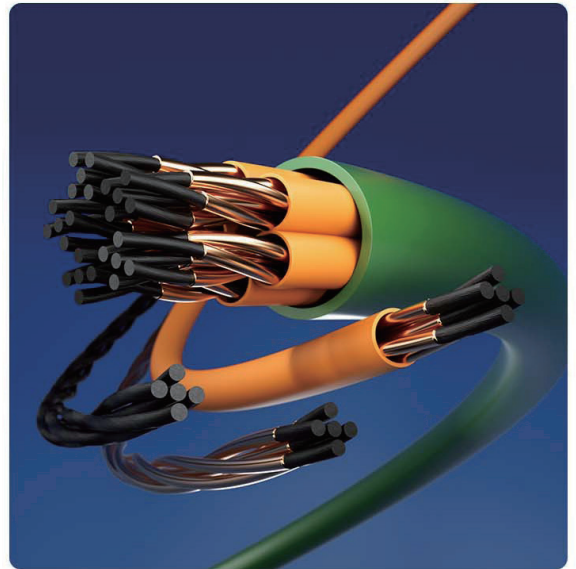
Core strengths of axrial electric

Electrical conductivity
50MS/m

Tensile strength
1.0-5.0N/tex

Weight
20%
(lighter than copper)

CNT-CU composite cables



Core strengths of axrial electric

axrial electric is a hybrid material made by continuously coating CNT yarn with copper. It delivers copper-level conductivity but is lighter, more flexible, and stays stable even under repeated bending or vibration.



Target applications

It is used in lightweight wiring, coil windings, and wire harnesses where high conductivity, low weight, and flexibility are essential, especially in next generation mobility systems.