

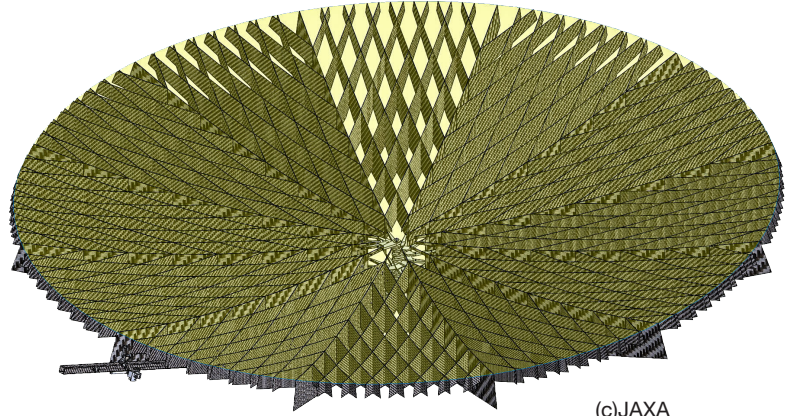


TAIYO Antenna & Shield Mesh®

TAIYO Antenna & Shield Mesh® is the world's first space antenna reflector mesh made from innovative thin copper-zirconium alloy wire.

This product provides cost-effective solutions for the fast-growing space industry.

TAIYO Antenna & Shield Mesh® is fabricated from the copper-zirconium alloy Nf-HyCZ®. Nf-HyCZ® is a patented alloy by NGK Insulators with a high tensile strength of 1.7 GPa. This material offers a mesh elasticity of up to 20% with superior electrical conductivity thanks to a unique nano-size crystal structure. In addition, the knitting process does not involve gold plating, allowing for significant cost savings.



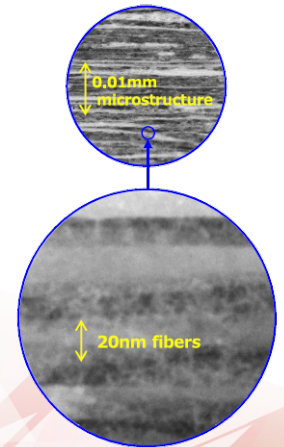
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TAIYO Antenna & Shield Mesh® boasts a very small reflection loss of less than 0.5 dB at 30 GHz. The elastic mechanical property and good electrical conductivity also mean TAIYO Antenna & Shield Mesh® can be used as a shielding conductive layer in EMI-controlled environments.



Basic properties

Mechanical	Openings per inch	36	(at 3.5 N/m of tension)
	Elasticity (vertical)	>10	%
	Elasticity (horizontal)	>10	%
Electrical	Reflection loss	<0.5	dB (at 30 GHz)
	Shielding effectiveness	>20	dB (at up to 30 GHz)
Delivery form		60-inch (W) × 30-foot (L)	roll



* Values above are typical for REFERENCE ONLY and are not guaranteed performance values.

* TAIYO Antenna & Shield Mesh® was developed through close engineering collaboration between five Japanese companies. Manufactured by TAIYO WIRE CLOTH, NGK Insulators, and Koyo Materica, with Technical Advisory from JAXA and Technosolver.

Estimates, Inquiries:



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