

- USM-ATLAS16 -

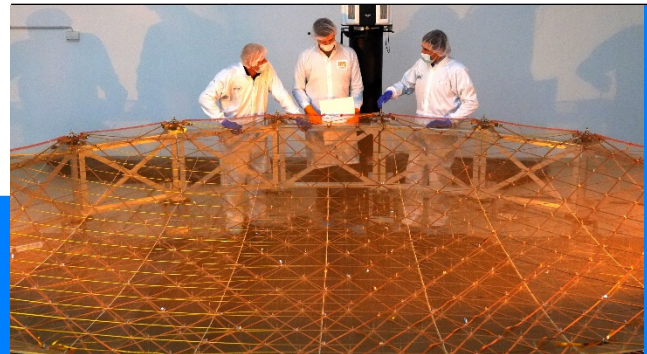
RF-reflective mesh „Made in Germany“ for deployable or rigid reflector antennas for space applications.

Antenna Application Area

Earth Observation Missions

Telecommunication Missions

Science Missions



*5 m large deployable reflector surface
with HPtEX-USM-mesh under
RF testing at Airbus Germany*

Key Characteristics

Applicable Frequencies	up to C-band
Needle Fineness	E16 (needles per inch)
Mass	< 22 g/m ²
RF Performance / Reflection Loss	< 0.2 dB C-BAND
Material	Gold Coated Molybdenum (other materials available on request)
Knitting Patterns	ATLAS-ATLAS
Temperature Range	-250 °C up to +300 °C
Mesh Width	Single line: up to 4.5 m (width will be adjusted to request) Multi-line: up to 10.2 m (3 lines of 3.4 m each sewed together, sewing service: see option below) Ultra-width: on request
Mesh Length	max. 20 m recommended (length will be produced as requested)
Cleanliness Class	ISO 8 (as baseline, higher classes on request)

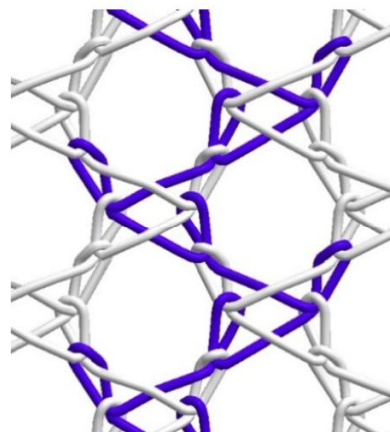
Optional Services

Mechanical tests on samples of the produced lot

RF Tests on samples of the produced lot

Automated sewing of mesh-stripes for large widths (e.g. 10 m)

Delivery of cost effective training mesh out of steel



ATLAS-ATLAS Pattern

