Data Sheet **Universal Space Mesh** - USM-ATLAS32 -



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

up to L-band / X-band					
E32 (needles per inch)					
< 40 g/m ²					
< 0.05 dB (depending on frequency)					
Gold Coated Molybdenum (other materials available on request)					
ATLAS-ATLAS					
-250 °C up to +300 °C					
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					
max. 20 m recommended (length will be produced as requested)					
ISO 8 (as baseline, higher classes on request)					

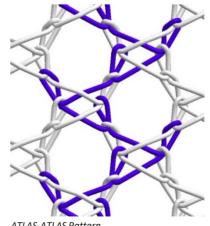
Optional Services

Mechanical	tests on	i samnles	of the	produced lot
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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

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