EMI / FRI shielded tent A mobile low cost Faraday cage solution

EMI / RFI portable shielded tents

The shielded Faraday tents and are compact and manufactured from a very strong highly conductive light weight textile. They are typically used for EMC experiments, RF measurements, mobile military activities, forensic activities and personal protection. Faraday tents offer mobile solutions for only a fraction of the price compared to conventional Faraday cages.

Access to the tent
The typical entrance of a tent is a split door with a magnetic closing system. The closure with magnetic strips ensures super electrical contact. For large tents, it is possible to turn a whole side into a door.
If necessary, the entrance can also be equipped with conductive Velcro strips.

Visual contact with your experiment
To keep visual contact with your experiment, we can provide the Faraday tent with windows made of two layers of very fine conductive wire mesh.

Applications
Permanent or temporary EMI/RFI shielding for:

- Forensics
- Judicial activities on location
- Field military
- Embassy use
- Secure communication (TEMPEST)
- Radar jammer protection
- Electromagnetic allergy / electrosmog
- Pre-compliance testing
- Electromagnetic reverberation chamber (RVC), i.e. a mode-stirred chamber (MSC)

Jumbo dual layer shielded tent

Wired mesh window for Faraday tent

Standard sizes available

Shape	Standard sizes available	Outside dimensions (m)	Code
pyramid	small	1x1x2.3	P-100x100x230
	medium	2x2x2.3	P-200x200x230
	large	3x3x2.3	P-300x300x230
square	small	2x2x2.3	S-200x200x230
	medium	2.5x2.5x2.3	S-250x250x230
	large	3x3x2.3	S-300x300x230
Rectangular	small	2x2.5x2.3	R-200x250x230
	medium	2x3x2.3	R-200x300x230
	large	2.5x3x2.3	R-250x300x230
	X large	3x2x2.3	R-300x200x230
	XX large	5x3x4	R-500x300x400

Most standard sizes are in stock. Any other size on request within 1 week. Please contact us (info@hollandshielding.com) for the delivery time.

Revision date: 02-06-2017

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Setting up the portable Faraday tent

Setting up the Faraday tent is very easy and time efficient. The tents are delivered with multiple ropes for easy mounting to the ceiling, or optionally with a freestanding frame.

In a double layer Faraday tent it's easy to connect/ suspend the inner Faraday tent to the outer tent with plastic locks. When travelling, the tent can also be folded up to a small sized package.

Options

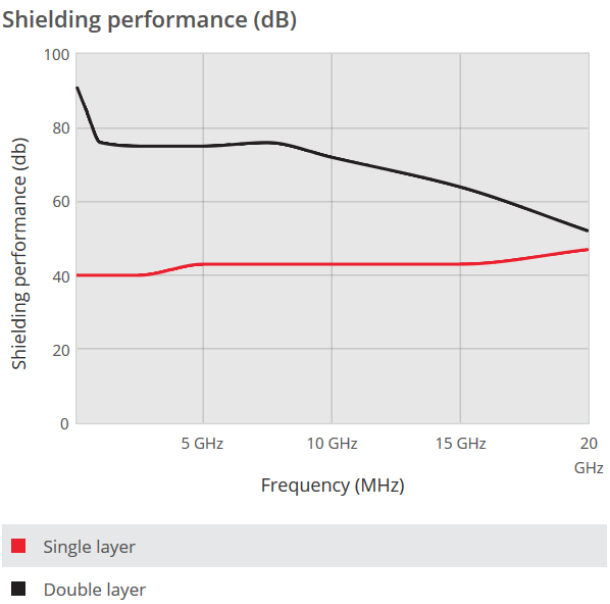
- Aluminium or reinforced mounting frame
- Shielded ventilation
- Waveguide for data transfer
- Cable sleeve for entry of filter cables
- Woven mesh ventilation panels
- Lighting for inside the tent
- Shielded signal- and power line filters (see picture below)
- Optionally supplied with a rigid reinforced floor and door for heavy load
- Many other options on request

Advantages

- Easy to mount
- Light weight and easy to move (mobile laboratory)
- Any size possible
- Single layer tent: 40-60 dB attenuation from 30 MHz up to 15 GHz
- Double layer tent: 70-90 dB attenuation from 30 MHz up to 22.5 GHz

Large Faraday tent

Mounting system shielded tent with Optional aluminium mounting frame

Power line filter and wave guide

Shielding performance of Faraday tent