

# EMI SHIELDING TENT



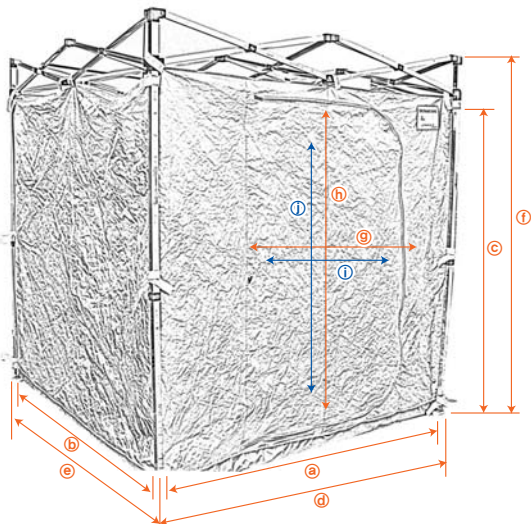
- High shielding performance
- Easy to erect and to dismantle

- Portable "shielded room"
- Double-layered conductive fabric and double-door system achieves high shielding effectiveness
- Special conductive-tooth-design zippered doors



## GENERAL TYPE

### ■ Structure



Shield cover dim. (outside)

Ⓐ Width Ⓑ Length Ⓒ Height

Frame dim. (outside)

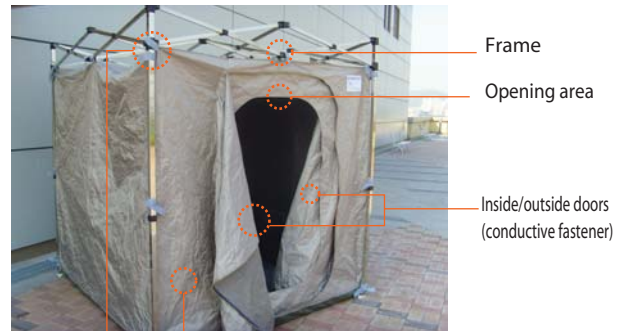
Ⓓ Width Ⓔ Length Ⓕ Height

Door dim.

Ⓖ Width Ⓗ Height

Opening dim.

Ⓙ Width Ⓚ Height



Velcro tape

Shielding cover

Air ventilation (optional)



Power cable sleeve

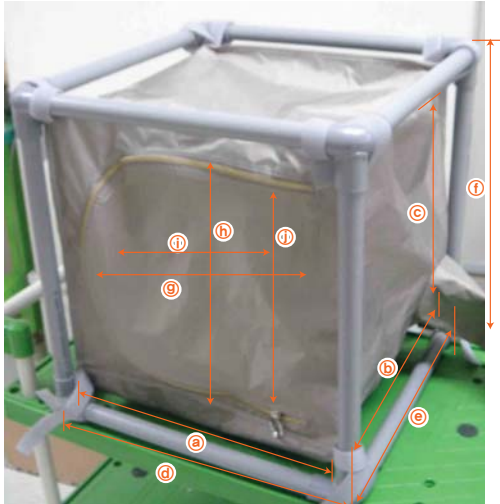
### ■ Standard Sizes

P/N	Frame dim. Ⓓ × Ⓔ × Ⓕ [cm]	Shielding cover dim. Ⓑ × Ⓐ × Ⓒ [cm]	Remarks
STEA-1515	150 X 150 X 215	140 X 140 X 190	Standard door -Width(Ⓖ) 105cm -Height(Ⓗ) 170cm
STEA-1522	150 X 225 X 215	140 X 215 X 190	
STEA-1530	150 X 300 X 215	140 X 290 X 190	Standard opening area -Width(Ⓚ) 80cm -Height(Ⓚ) 140cm
STEA-2121	210 X 210 X 215	200 X 200 X 190	Power cable sleeve -Dia.10cm -Length 100cm
STEA-2448	240 X 480 X 215	230 X 470 X 190	
Tolerance	± 5cm		



TABLETOP TYPE

■ Structure



\*Small size for table top use

Shielding cover dim. (outside)

(a) Width (b) Depth (c) Height

Frame dim. (outside)

(d) Width (e) Depth (f) Height

Door dim

(g) Width (h) Height

Opening area

(i) Width (j) Height

■ Type and dimension

P/N	Frame dim (d × e × f) [cm]	Shielding cover dim (b × a × c) [cm]	Door dim (g × h) [cm]	Opening area dim (i × j) [cm]
STEA-0505	57 × 57 × 57	50 × 50 × 50	40 × 40	30 × 30
STEA-0707	67 × 67 × 67	70 × 70 × 70	60 × 60	50 × 50
STEA-1010	97 × 97 × 97	100 × 100 × 100	90 × 90	70 × 70

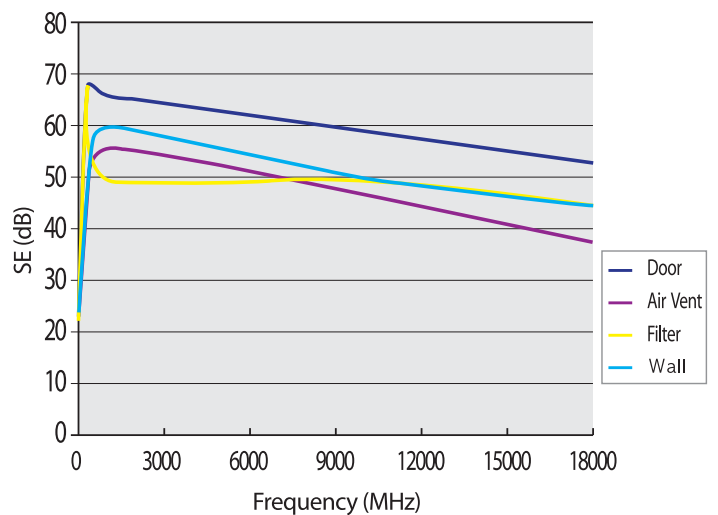
Power cable sleeve : dia.10cm, length 150cm

TYPICAL PERFORMANCE

■ Shielding Effectiveness

- Testing method: IEEE STD 299
- Sample P/N: STEA-2121
- Sample dim.: depth 210 x width 210 x height 215 [Cm]

Field	Frequency (MHz)	Measuring positions and shielding effectiveness (dB)			
		Door	Air Ventilation	Filter Box	Shielding wall
Magnetic field	0.014	10	6	6.5	7.5
	0.2	38.5	22	23	28.3
Electric field	1	55	57	54	54
	30	26	24	16	28
Plane wave	400	68	50	68	50
	1000	66	56	50	60
	10000	59	47	50	50
	18000	53	38	45	45



MATERIAL SPECIFICATION

		Property	Value	Applicable Product	
Shielding cover		Material	Conductive polyester fabric (Cu/Ni plated)	All products	
		Thickness	0.18mm		
		Surface resistance (*ESQ-517-04)	0.05 Ω / □		
		Operating temp.(KS C 2102)	-15~+80℃		
		Recommended humidity	10 ~ 60%		
Frame	SUS Type	Pipe dim.	∅32mm x T0.8mm	STEA-1515 STEA-1522 STEA-1530 STEA-2121 STEA-2448	
		Color	Silver		
	General Metal	Pipe dim.	∅32mm x T0.8mm		
		Color	White (powder painting)		
	Plastic	Pipe dim.	O.D:22mm, I.D:17mm(material:PVC)		STEA-0505 STEA-0707 ST-1010
		Color	Gray		
Door Closure		Material	Conductive metal fastener #5, #10	All products	
Floor Pad		Thickness	0.24mm (material: tarpaulin)	STEA-1515 STEA-1522 STEA-1530 STEA-2121 STEA-2448	
		Operating temp. (KS C 2102)	-15~+80℃		
		Color	Ultramarine		
Options		1. EMI filter(AC, DC, LAN). 2. Conductive hotmelt for shielding cover repair 3. Cable shielding jacket			

PACKAGE CONTENTS

■ Basic Contents



Shielding cover



Carrying bag for shielding cover



Frame



Carrying bag for frame

## Options



### ● EMI-Shielding Cable Jacket (for power or data cables)

- ▶ Size :  $\varnothing 50, \varnothing 100$  [mm]
- ▶ Thickness: 0.35mm
- ▶ Op. Temp:  $-15^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- ▶ Material: Al foil + PVC film
- ▶ Fastening Method: Velcro tape



### ● Conductive Hotmelt Tape Iron-on to repair damages of shielding cover

- ▶ Size: W 50mm x L 50m
- ▶ Thickness: 0.12mm
- ▶ Op. Temp:  $-15^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- ▶ Iron-on Temp & Pressure:  $130 \sim 180^{\circ}\text{C} / 2\text{Kg}$
- ▶ Material: conductive fabric, polyurethane hotmelt(Ni incl.)
- ▶ Surface resistance:  $0.05 \Omega / \square$



### ● Conductive Fabric Tape Apply to repair damages of shielding cover

- ▶ Size: W50mm x L50m
- ▶ Thickness: 0.11mm
- ▶ Op. Temp:  $-15^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- ▶ Adhesive Strength: 1000g/25mm
- ▶ Material: Conductive fabric + acrylic adhesive(Ni incl.)
- ▶ Surface Resistance:  $0.05 \Omega / \square$



### ● Shielded window

- For monitoring tent interior  
※ Warning: shielding window can decrease shielding performance.
- ▶ Size : custom-made
  - ▶ Thickness : 0.35mm
  - ▶ Material : PVC film+conductive mesh
  - ▶ Surface resistance :  $0.05 \Omega / \square$
  - ▶ S.E : 50dB/20MHz~1GHz
  - ▶ Transmittance: approx. 70%



### ● EMI Power Line Filter

- ▶ Custom-made according to customer's requirements

### ● Air ventilation

- Honeycomb type
- Conductive double-raschel type
- Conductive fabric-mesh type