

Conductive/Shielding Adhesive Tapes

t e r a o k a t a p e

- ▶ CONDUCTING
- ▶ SHIELD
- ▶ ADHESIVE TAPE

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Agent



An adhesive tape supports the evolution of digital devices.

Continuing to respond to the needs of the times. This is the mission pursued by TERAOKA. Conductive and shielding tapes protect information equipment of the IT age from static electricity and electromagnetic wave disturbance. The countermeasure against static electricity and electromagnetic wave disturbance in a limited space is increasingly needed due to the downsizing and functional diversification of digital devices. The versatile lineup of TERAOKA's products can respond to these needs.



Why Not Achieve Ultimate Efficiency and Enhanced Productivity Using TERAOKA's Versatile Products and State-of-the-Art Technology?

■ Tape List

Single side coated conductive adhesive tapes

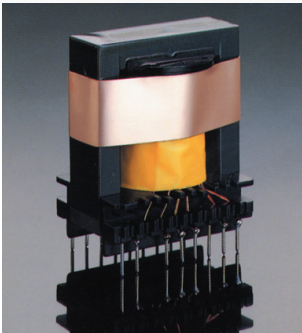
Conductive cloth adhesive tape	No.1825 No.1829
Copper foil conductive adhesive tape	No.8313 No.8315 No.8323
Aluminum foil conductive adhesive tape	No.8303 No.8304

Double-coated conductive adhesive tapes

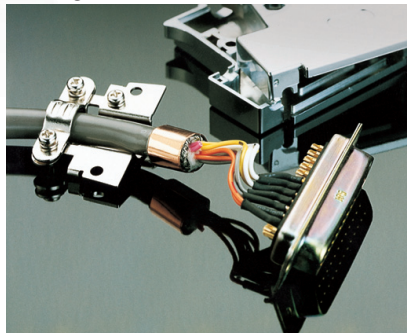
Copper foil	No.792 No.795 No.796
Aluminum foil	No.791
Baseless	No.7025
Non-woven fabric	No.7741

Select the type that suits your requirements most from the following types: Type that uses an adhesive which achieves a high vertical electric conductivity just by adhering it. Type that uses a metal foil excellent in reliability. Cloth type that is light in weight and excels in flexibility. Flame retardant type (approved by UL 510 Flame retardant). Has safety Double-coated adhesive type.

Shielding for Switching Transformer



Shielding for Connector Cable



Flame retardant conductive cloth adhesive tape — No.1825

Low VOC Halogen free flame retardant conductive cloth adhesive tape — No.1829

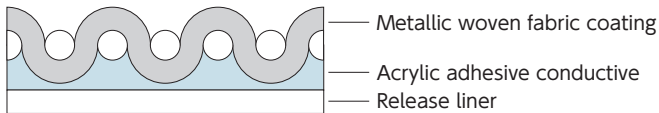
Features

- Excellent shielding performance
- Extremely flexible-can be fitted closely to projections and indentations
- Superior mechanical strength
- Able to withstand bending-endured over 10,000 flexes without damage in JIS P8115 breakage test (tensile force:9.8N), compared with 14 times for electrolytic copper foil and 20 times for rolled copper foil
- Low resistance electrical conductivity only apply
- Light and easy to work with
- UL510 flame retardant (file No.E56086)
- No.1829 is a halogen and antimony free flame retardant agent
- No.1829 is a low VOC product (Toluene xylene free adhesive)

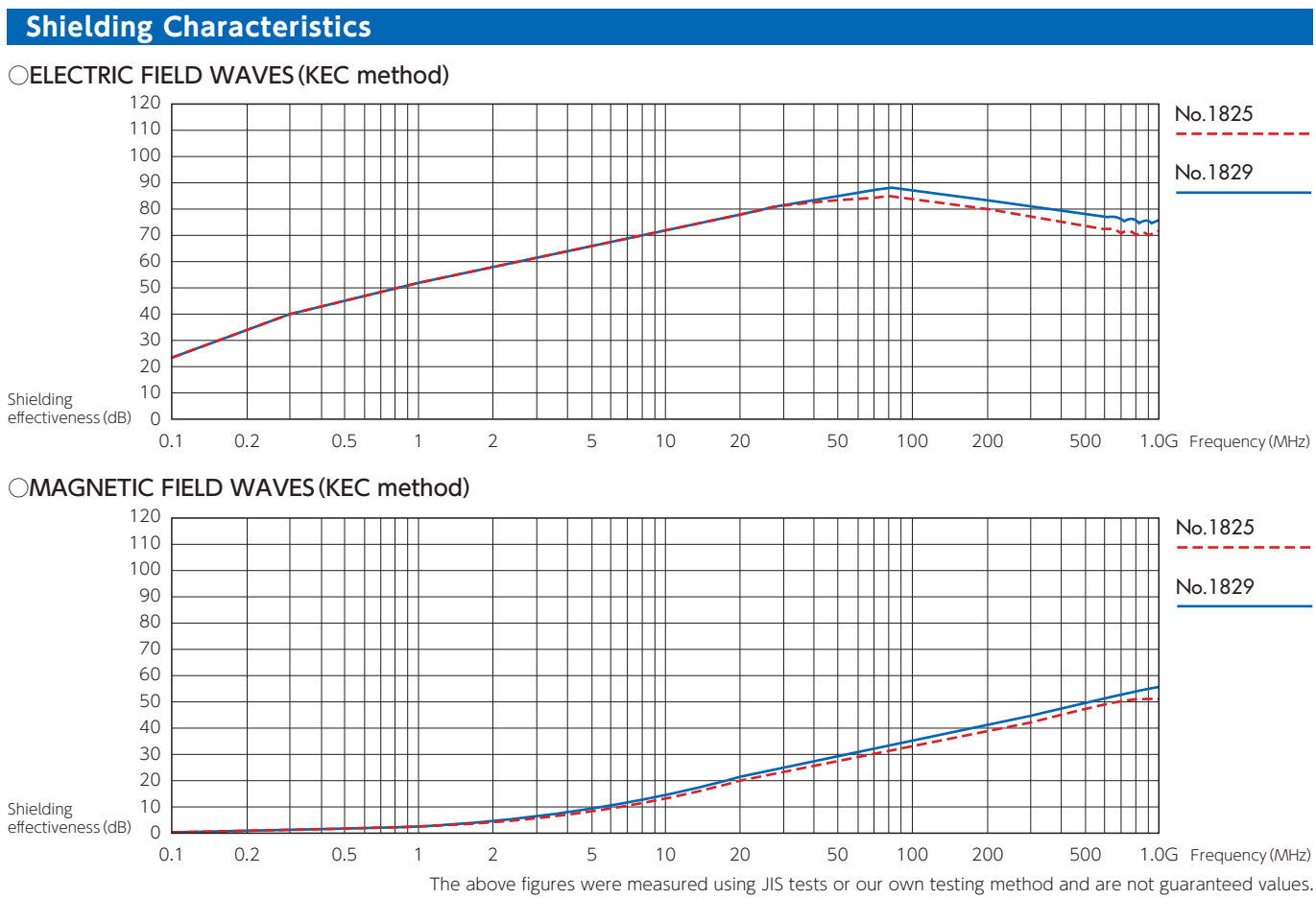
Uses

- Shielding for cables, connectors,etc
- Auxiliary materials for shielded rooms
- EMI/RFI shielding
- Static charge draining,grounding

Structure



General Characteristics		
Item	No.1825	No.1829
Coated metal	Nickel/copper	Nickel/copper
Fabric/weave method	Polyester/ripstop	Polyester/ripstop
Tape thickness mm	0.120	0.095
Standard length m	20	20
Peel adhesion N/W.25mm	11.0	11.8
Tensile strength N/W.25mm	265	195
Electrical resistance Ω/cm²	0.03	0.01



Copper foil conductive adhesive tapes — No.8313 No.8315 No.8323

Aluminum foil conductive adhesive tape — No.8303 No.8304

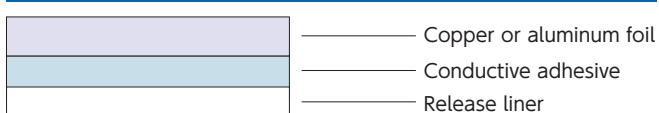
Features

- Excellent depthwise and lengthwise conductivity possible simply by applying tape
- Those 5 tapes are Flame retardant.
- No.8323 8303:UL510 flame retardant (file No.E56086)
- No.8313 is a low VOC product (Toluene xylene free adhesive)

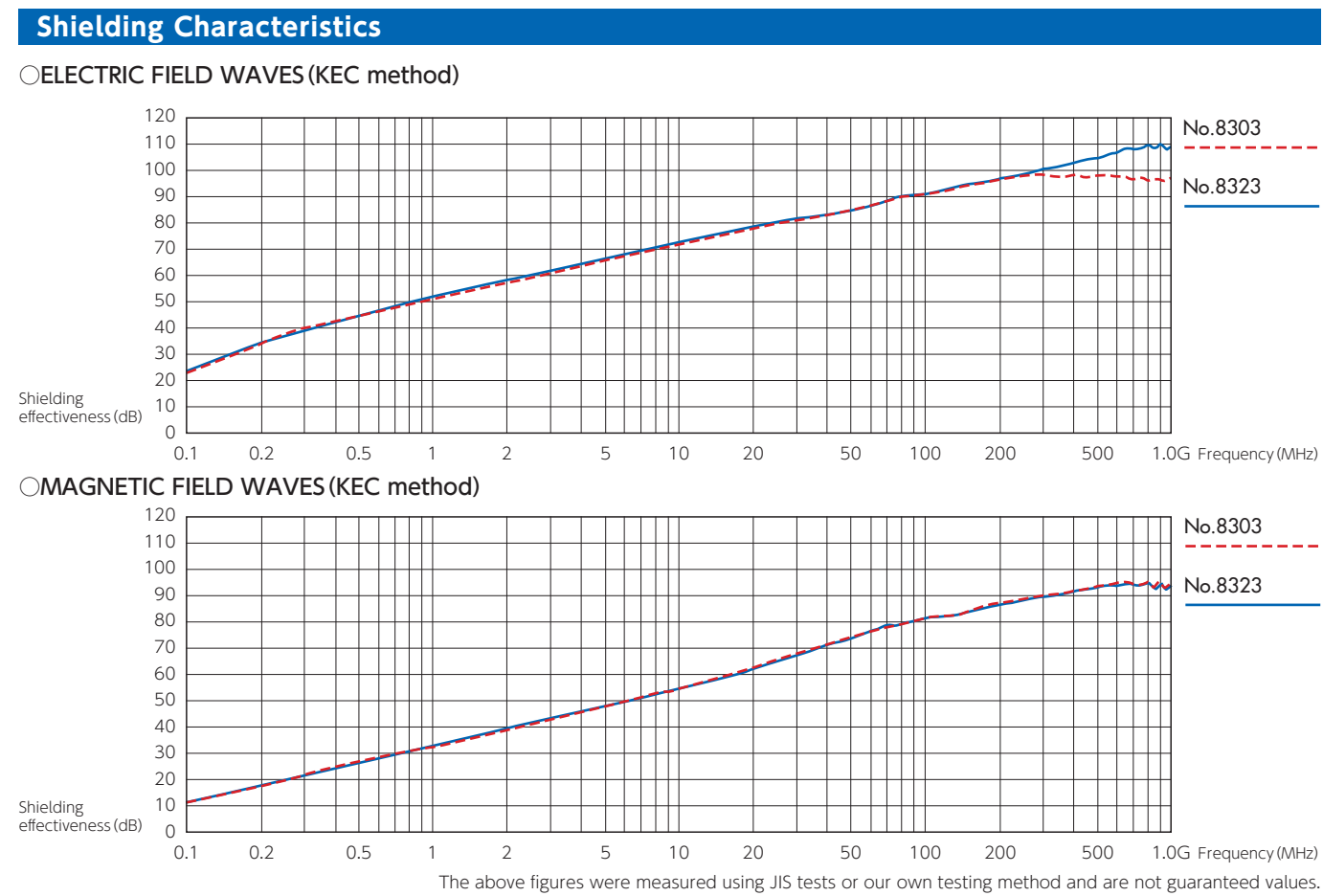
Uses

- EMI/RFI shielding
- Shielding for cables, connectors,etc
- Static charge draining, grounding
- Shielding for housing
- Attachment, fixing, temporary positioning of parts
- Fixing of electrodes, etc.

Structure



General Characteristics					
Item	No.8313	No.8315	No.8323	No.8303	No.8304
Backing	Electrolytic copper foil	Electrolytic copper foil	Rolled copper foil	Aluminum foil	Aluminum foil
Backing thickness mm	0.009	0.018	0.035	0.050	0.020
Tape thickness mm	0.030	0.050	0.070	0.085	0.050
Standard length m	20	20	20	20	20
Peel adhesion N/W.25mm	13.5	14.8	8.58	9.81	12.7
Tensile strength N/W.25mm	114.3	197.5	98.1	80.9	29.4
Electrical resistance Ω/cm²	0.02	0.02	0.04	0.08	0.06



Copper foil double-coated conductive adhesive tapes ————— No.792 No.795 No.796

Aluminum foil double-coated conductive adhesive tape ————— No.791

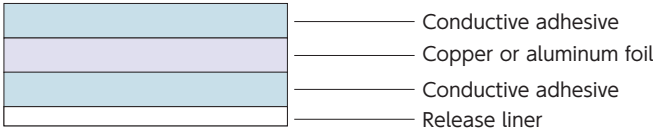
Features

- Excellent depthwise and lengthwise conductivity possible simply by applying tape
- Thermal conductivity only apply
- No.795, No.796 have tape roll up by release liner inside and out side adhesive form.
- No.796 is a low VOC product (Toluene xylene free adhesive)

Uses

- Stratic charge draining,grounding
- To fix static eliminators
- Attachment,fixing,temporary positioning of parts
- For thermal conduction

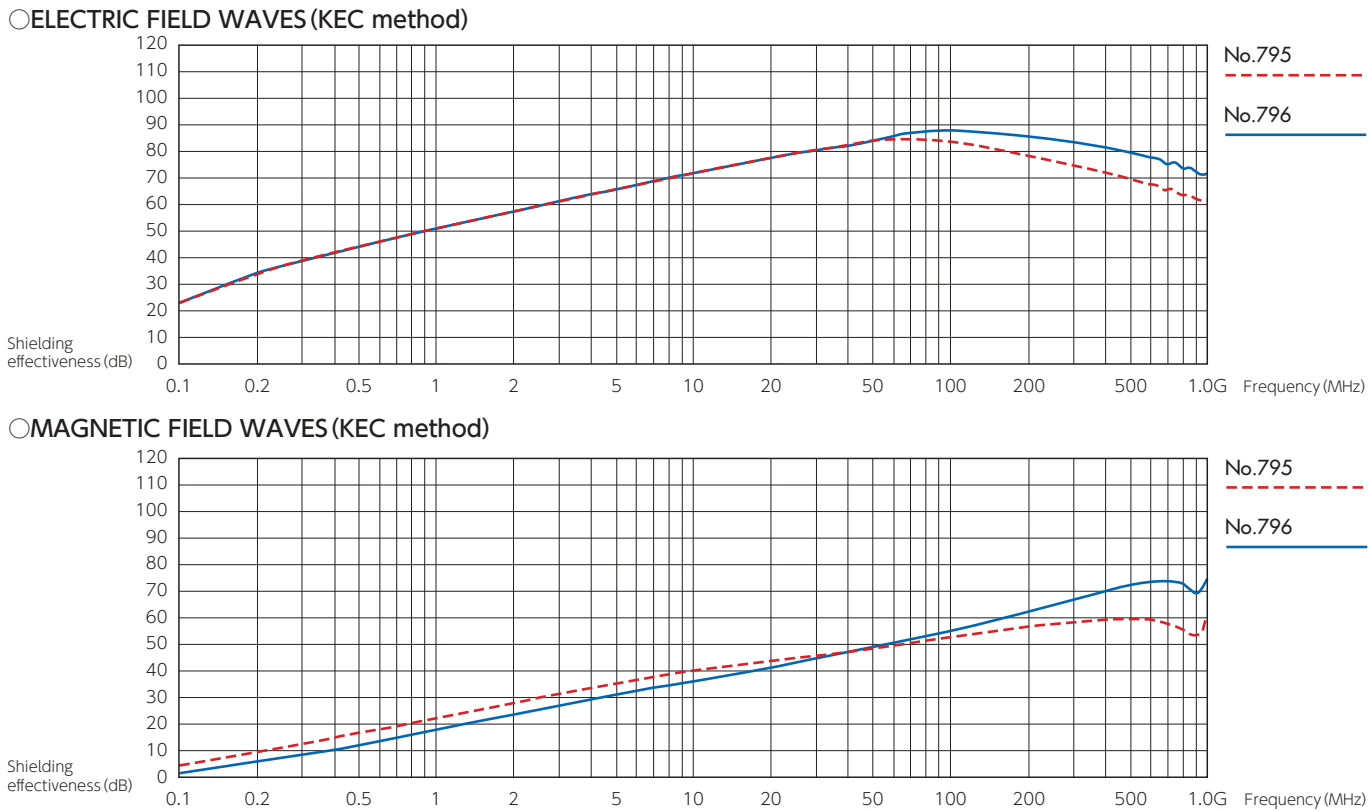
Structure



Item	No.791	No.792	No.795	No.796
Backing	Aluminum foil	Rolled copper foil	Electrolytic copper foil	Electrolytic copper foil
Backing thickness mm	0.020	0.035	0.018	0.009
Tape thickness mm	0.130	0.090	0.060	0.050
Standard length m	20/50	20/50	30	20
Peel adhesion N/W.25mm	14.7	8.58	7.50	7.50
Shear adhesive strength N/4cm²	441	490	—	—
Electrical resistance Ω/cm²	0.50	0.02	0.05	0.03
Thermal conductivity W/m·K	≥5.0	≥5.0	≥5.0	≥5.0

The above figures were measured using JIS tests or our own testing method and are not guaranteed values.

Shielding Characteristics



Conductive baseless adhesive tape ————— No.7025

Non- woven fabric double-coated conductive adhesive tape ————— No.7741

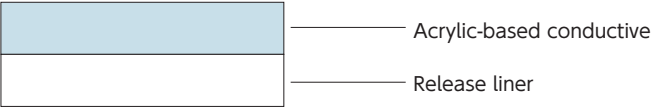
Features

- thin and light. (for baseless)
- Excellent depthwise conductivity possible simply by applying tape

Uses

- To fix static eliminators

Structure



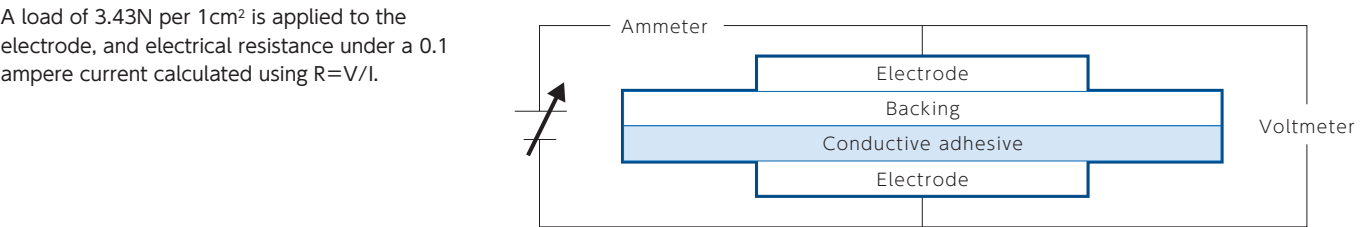
Item	No.7025
Backing	Non-backing
Tape thickness mm	0.035
Standard length m	20
Peel adhesion N/W.25mm	12.5
Electrical resistance Ω/cm²	0.01

Item	No.7741
Backing	Non- woven fabric
Tape thickness mm	0.050
Standard length m	20
Peel adhesion N/W.25mm	10.6
Tensile strength N/W.25mm	0.02

The above figures were measured using JIS tests or our own testing methods and are not guaranteed values.

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Electrical Resistance Measurement Method (Equivalent to MIL Standard 202C Method 303)



Shielding Characteristic Measurement Method (KEC Method)

Where E₀ represents electric field strength (or H₀ : magnetic field strength) in a space without shielding, and where E_x represents electric field strength (or H_x : magnetic field strength) in a space with shielding, the shielding effectiveness is calculated as follows:

$$SE(\text{shielding effectiveness}) = 20 \log_{10} \frac{E_0}{E_x} \text{ [dB]}$$

$$SE(\text{shielding effectiveness}) = 20 \log_{10} \frac{H_0}{H_x} \text{ [dB]}$$

