


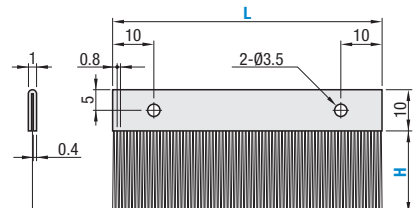
Neutralizer Brush / Conductive Copper Foil Tape / Neutralizer Tape

Neutralization Brushes



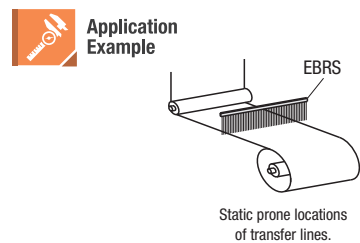
RoHS 10

Type	Material	
	Holder	Brush
EBRS	1050 Aluminum Alloy	304 Stainless Steel (12 μm)



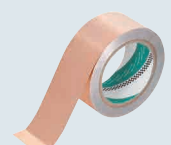
Ⓢ When L≥20, there will be three holes at 100 mm from both ends and the center.

Part Number		L 1mm Increment
Type	H	
EBRS	10	50-500
	20	



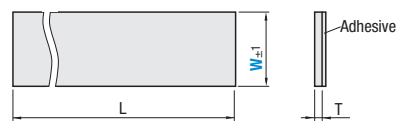
Part Number Example: **EBRS10 - 500**

Conductive Copper Foil Tape



RoHS 10

ECTP



Material: Main Body: Copper
Adhesive Part: Conductive Adhesives

Part Number		L (Meter)	T (mm)
Type	W (mm)		
ECTP	50	10	0.08

Part Number Example: **ECTP50**

- Ⓢ L dimension is in meters.
- Ⓢ Peel off backing paper to adhere it to an object.
- Ⓢ Clean off any oil or dust that may be on the mating surface.
- Ⓢ Can be cut with a utility knife.

Features


- Usable in a wide range of applications to secure electroconductivity of equipments.
- Electroconductive adhesive with electric resistance of 160 mΩ/4 cm² is used.

Characteristic Value

Item	Unit	Value
Electric Resistance of Adhesive Layer	mΩ/4 cm ²	160
Tensile Strength	N/cm	39.2
Adhesive Strength (for Stainless Steel 180 Degree Peeling Strength)	gf/20 mm	700
Elongation	%	—

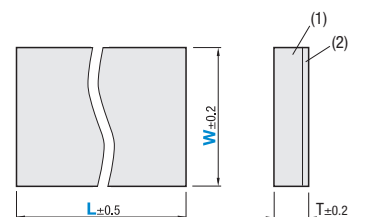
Ⓢ The above values are not guaranteed values but an example of measured values.

Neutralization Tapes



RoHS 10

Type	Material	
	(1) Silver Plating Polyester Fiber	
ELTA	(2) Electric Conductivity Acrylic Adhesive Layer	



Part Number		L 1mm Increment	T
Type	W		
ELTA	10	20-500	0.6
	25		
	50		

Part Number Example: **ELTA10 - 500**

Brush

Overview

General Information

The soft and resilient filament characteristics are well suited for various industrial uses; such as parts leveling, dusting and washing. General purpose bar type Channel Brush and Roll Brush are offered. Additionally, MISUMI original attachment brackets are provided.

Features of Channel Brush

The Channel Brush has filaments arranged in a grid pattern (Mfg. method is shown on the right.) More economical than planted filament brush.

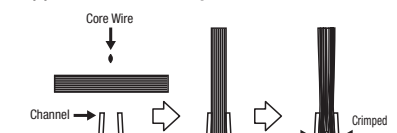
About the Filament Materials

6 Nylon: General purpose material. Good anti-wear, fatigue resistance, and resiliency characteristics suitable for long term operation. Also usable in food processing. Maximum temp limit for the filaments is 100°C. Care should be taken since Nylon 6 dissolves in strong hydrochloric acid, sulfuric acid, formic acid, and phenolic acid.

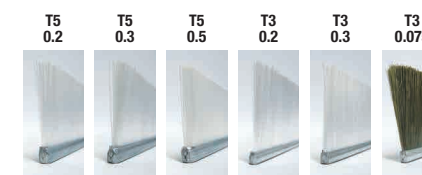
Thunderon®: Thunderon® is an organic conductive fiber made by copper sulfide chemically bonded to acrylic fiber. It's more flexible than thin wire and carbon fiber materials, and has excellent wear resistant characteristics. Used for anti-static measures. The conductive fiber has static neutralizing functionality.

Mfg. Method

- (1) Filaments are held within the channel with a core wire.
- (2) The channel is crimped from both sides.

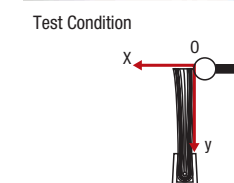
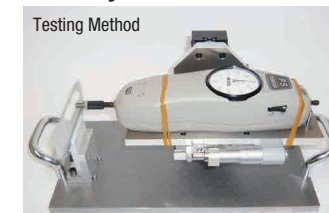


Filament Diameter of Channel Brush (For 30 mm H)



Part Number (Filament Material)	Filament Diameter (No)	Features
BRUSN (Nylon 6)	0.2	Feel of Tooth Brush (Normal)
	0.3	Harder than Tooth Brush (Hard)
	0.5	Feel of Deck Brush
BRUSE (Thunderon®)	0.075	Diameter of average human hair.

Elasticity Test of Channel Brush

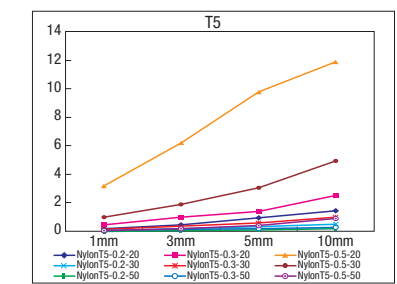
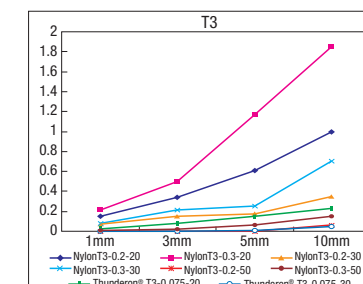


Loads are measured while the filament tip (y0-1mm) is pushed in X direction to cause the leaning of 1, 3, 5, and 10 mm. Actual measurements are for reference only. Not a guarantee.

See the test condition on the left

Model No. (Material)	T	Brush Test Samples		Load(N) in X _ mm Direction			
		Filament Diameter (No)	Filament Length (H) mm	1 mm	3 mm	5 mm	10 mm
BRUSN (Nylon 6)	5	0.2	20	0.18	0.45	0.95	1.45
		0.3	20	0.45	0.98	1.40	2.50
		0.5	20	3.20	6.20	9.80	11.90
		0.2	30	0.05	0.16	0.33	0.50
		0.3	30	0.13	0.34	0.60	0.98
		0.5	30	1.00	1.90	3.05	4.95
	3	0.2	50	0.01	0.06	0.07	0.16
		0.3	50	0.06	0.15	0.16	0.26
		0.5	50	0.06	0.20	0.42	0.88
		0.2	20	0.15	0.34	0.61	1.00
		0.3	20	0.21	0.50	1.17	1.85
		0.5	20	0.07	0.15	0.17	0.35
BRUSE (Thunderon®)	3	0.2	30	0.08	0.21	0.25	0.70
		0.3	30	—	—	—	0.06
		0.5	30	0.01	0.02	0.06	0.15
BRUSE (Thunderon®)	3	0.075	20	0.02	0.08	0.15	0.23
		0.075	30	—	—	0.01	0.05

Ⓢ Values are for reference only, not guaranteed.



Notes on Use

- (1) Brush service life will vary depending on usage conditions and frequency. The filaments may break or fall out depending on usage condition. Do not tug on the filaments.
- (2) Maximum temp limit for the filaments is 100°C. The filaments will melt and fall off above 100°C.
- (3) Nylon 6 dissolves in strong hydrochloric acid, sulfuric acid, formic acid, and phenolic acid.
- (4) Brush press contact length should be 2 mm or less. Do not press further than necessary.
- (5) Do not disassemble the brush.
- (6) Do not bend the Channel Brush.
- (7) The Channel Brush has ±2 mm bow/bend per L100 mm.
- (8) Use the brush at less than 1,000 RPM.

Use & Storage Cautions

- (1) For storage, care should be taken so that the filaments are not plastically deformed. If the brush is left in contact with work/fixture while in storage, the filaments may be deformed permanently. Additionally, avoid filament tips from contacting anything when storing the brush by itself.
- (2) Dry before storage.
- (3) Remove any foreign objects from the brush.
- (4) Do not use in high temp. environment or near fire.