

# EMI-Shielding Cable Jacket

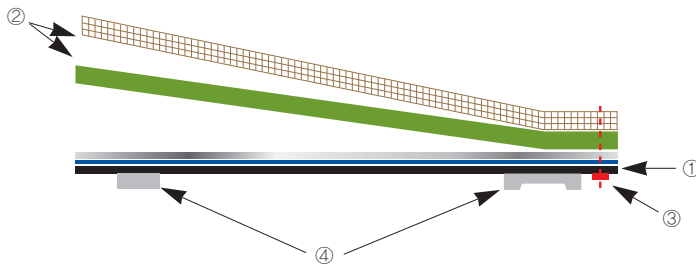


- [Excellent shielding effectiveness](#)
- [Easy to use](#)
- [Flame retardant](#)
- [Physically protects cables](#)

This product wraps cable(s) with a PVC jacket, to protect the cable(s) from environment or to keep cables bundled together. There are several different closures, Velcro, Zipper, buttons, etc. A PVC jacket is laminated with Al foil to provide EMI noise shielding. Some are available with additional layer(s) of shielding material such as conductive mesh, conductive fabric, to enhance the shielding performance.

There are enough standard sizes to accommodate most needs. If a special size is required, we can produce custom size in different combination of closures and shielding layers.

## STRUCTURE



- ① Basic layer  
Al/PVC laminated, PVC sheet, tarpaulin etc
- ② Additional layer(s)  
Wire mesh tape (material : Sn plated copper)  
Conductive fabric (material : Cu/Ni plated polyester)
- ③ Grounding wire (all along the length of the jacket)  
braided wire mesh (material : Sn plated copper)  
Wire mesh tape (material : Sn plated copper)
- ④ Closure type  
Plastic button, Velcro tape, PVC zipper, fastener, double side PSA

## TYPES & DIMENSION

- Custom sizes are available.
- Standard length 25m/reel. 50m/reel.

Usage	Part number	Applicable cable Diameter [mm]
Plain jackets (No shielding layers)	BVT(G), BVT(T), BET	10, 15, 20, 25, 30, 40, 50, 70, 100
	MET	15, 20, 25, 30, 40, 50, 60, 70, 100
	FET	15, 20, 25, 30, 40, 50, 70, 100
	ZET	15, 20, 25, 30, 40, 50, 70, 100
EMI-Shielding Jackets	BAT	10, 15, 20, 25, 30, 40, 50, 70, 100
	BAR(2)	15, 20, 25, 25, 30, 40, 50, 70
	MAT, MAR(2), MARS(3)	15, 20, 25, 30, 40, 50, 60, 70, 100
	MER(2), MERS(3)	15, 20, 25, 30, 40, 50, 60, 70, 100
	FAT	15, 20, 25, 30, 40, 50, 70, 100
	FAR(2)	15, 20, 25, 30, 40, 50, 70
	FER(2), FERS(4)	15, 20, 25, 30, 40, 50, 70
	ZAT	15, 20, 25, 30, 40, 50, 70, 100
ZAR(2), ZAS(2)	15, 20, 25, 30, 40, 50, 70	
Anti-Rat-Bites jackets	MJT	25, 30, 40, 50, 70, 100
	BJT	25, 30, 40, 50, 70, 100
Flat cable jackets	PAT	15, 23, 28, 35, 46, 53, 66, 79, 92 * Applicable flat cable width

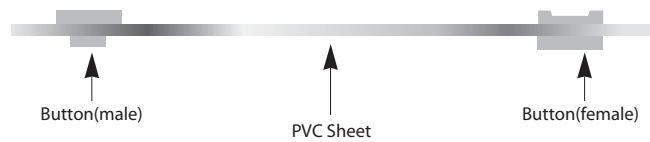
## PLAIN JACKETS (NO EMI SHIELDING LAYERS)

- Bundle and protect cables
- Easy handling - use a knife or a scissors to cut
- Protect cable from dust and oil
- Low price

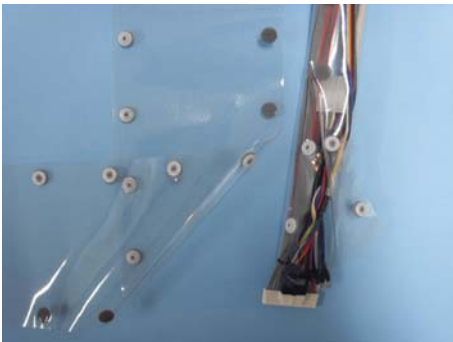
### ■ BVT(G)



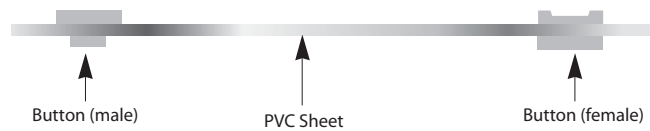
- No burrs (suitable for clean room)



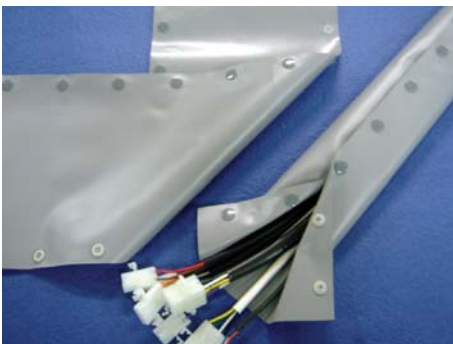
### ■ BVT(T)



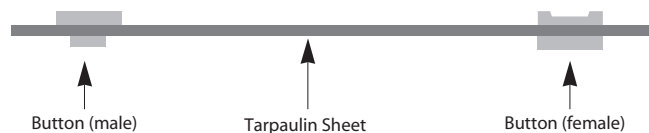
- No burrs (suitable for clean room)
- Transparent PVC



### ■ BET



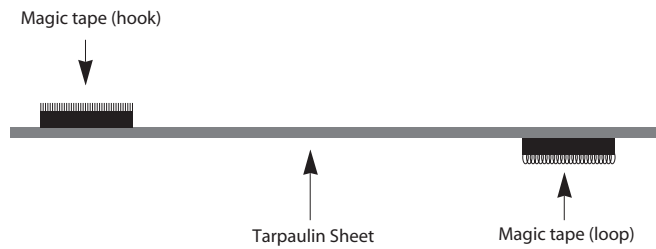
- No burrs (suitable for clean room)
- Good tensile strength



## ■ MET



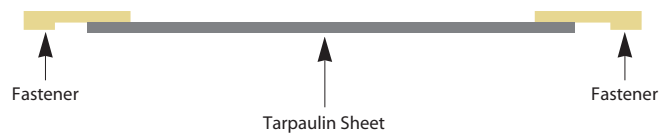
- Easy fastening Velcro tape



## ■ FET



- Easier to wrap long cables than zipper type

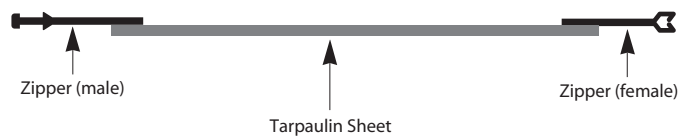


※ Fastening tool required.

## ■ ZET



- Air-tight closure; Dust and water proof.
- Easy to install

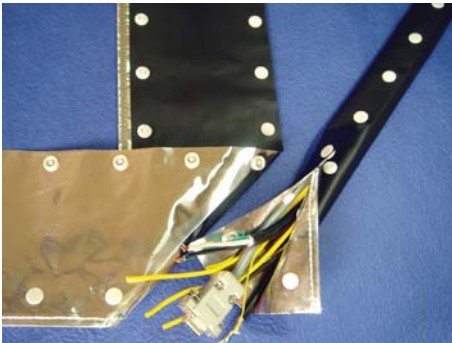


※ Fastening tool required.

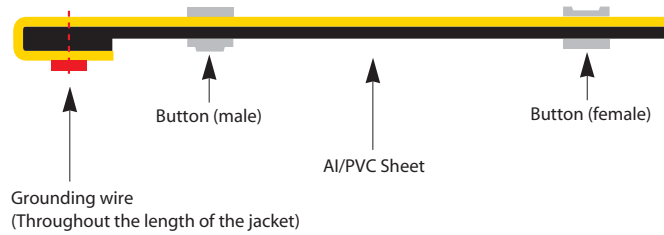
EMI SHIELDING JACKETS

- Bundle and protect cables
- Shield cable from emitting and receiving RF noise
- Multiple shielding layers for better shielding performance.

■ BAT



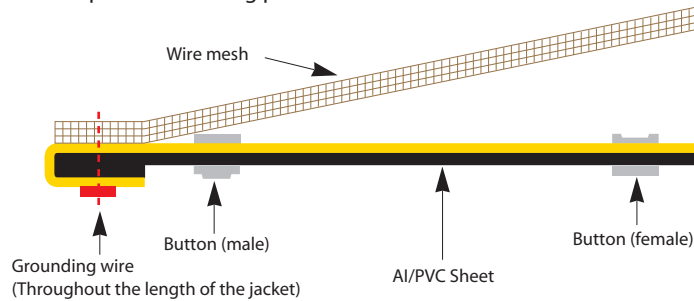
- Aluminum foil laminated PVC jacket, single layer
- Button closure
- Low price



■ BAR(2)



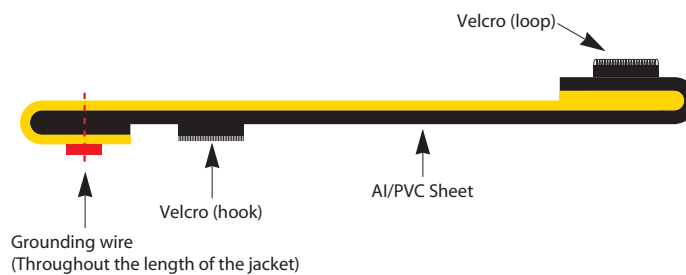
- Aluminum foil laminated PVC jacket + wire mesh
- Button closure
- Improved shielding performance



■ MAT



- Aluminum foil laminated PVC jacket, single layer
- Velcro closure

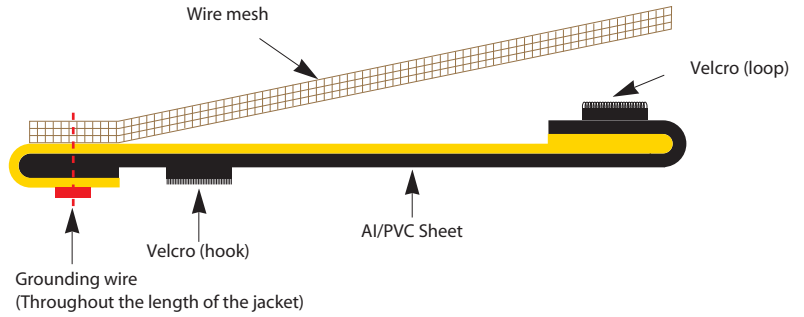


# EMI-Shielding Cable Jacket

## ■ MAR(2)



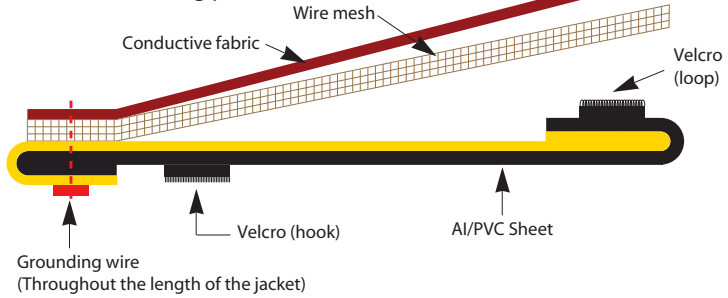
- Aluminum foil laminated PVC jacket + wire mesh
- Velcro closure



## ■ MARS(3)



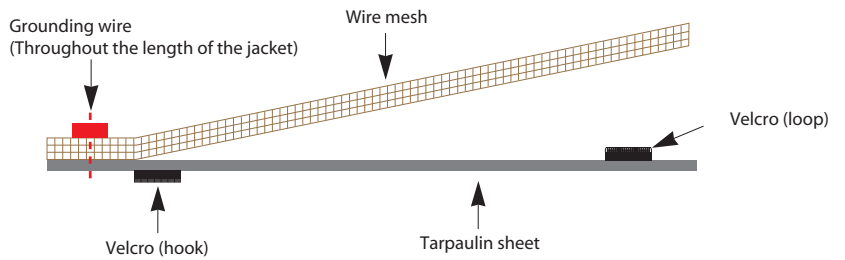
- Aluminum foil laminated PVC jacket + wire mesh
- Velcro closure
- Excellent shielding performance



## ■ MER(2)



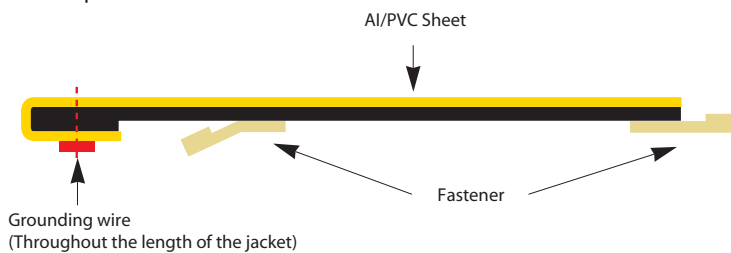
- PVC jacket + wire mesh
- Velcro closure



## ■ FAT



- Aluminum foil laminated PVC jacket
- Easier to wrap long cables than zipper type
- Low price

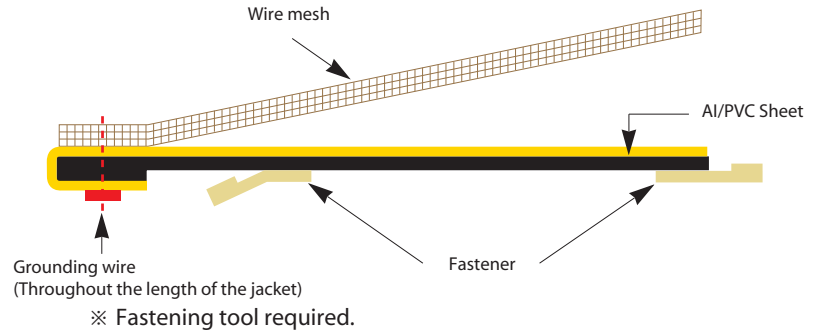


※ Fastening tool required.

■ FAR(2)



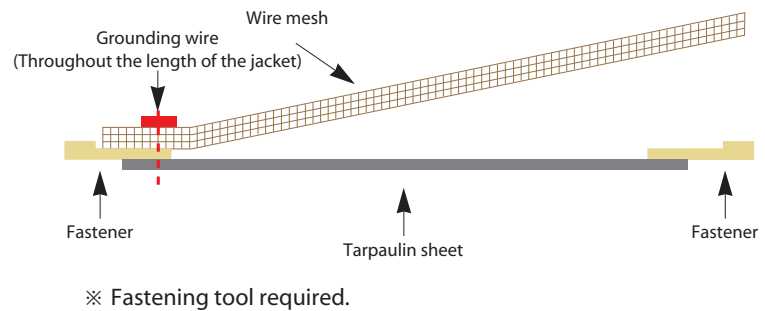
- Aluminum foil laminated PVC jacket + wire mesh
- Fastener closure



■ FER(2)



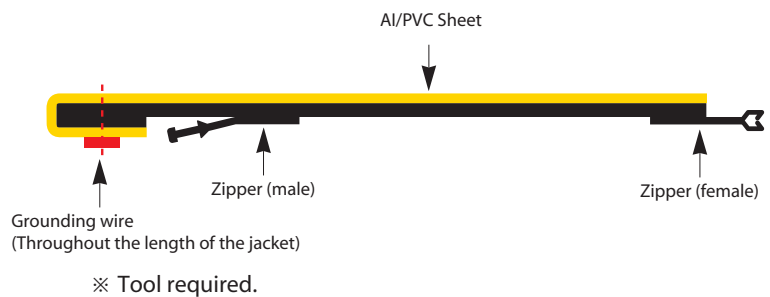
- Tarpaulin jacket + wire mesh
- Fastener closure



■ ZAT



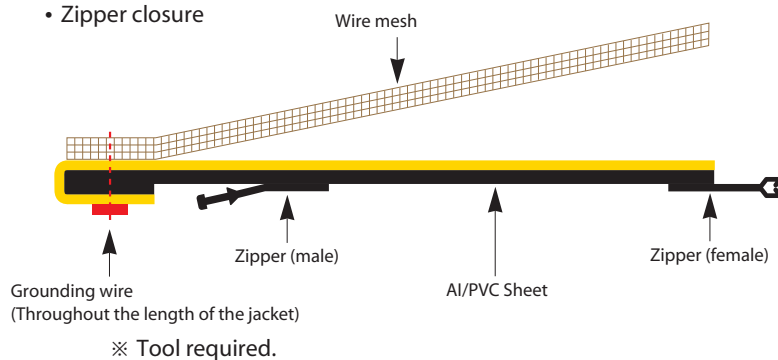
- Aluminum foil laminated PVC jacket
- Zipper closure



■ ZAR(2)



- Aluminum foil laminated PVC jacket + wire mesh
- Zipper closure

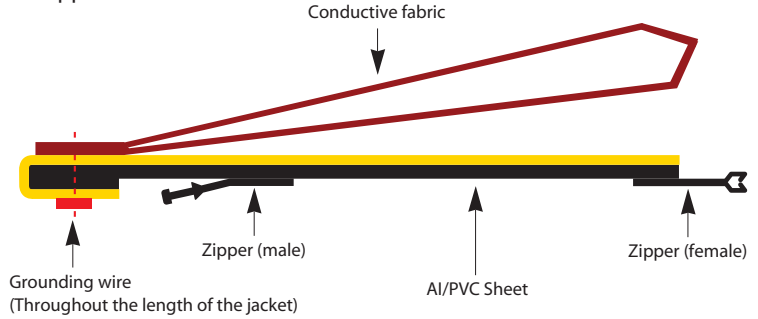


# EMI-Shielding Cable Jacket

## ■ ZAS(2)



- Aluminum foil laminated PVC jacket + conductive fabric
- Zipper closure

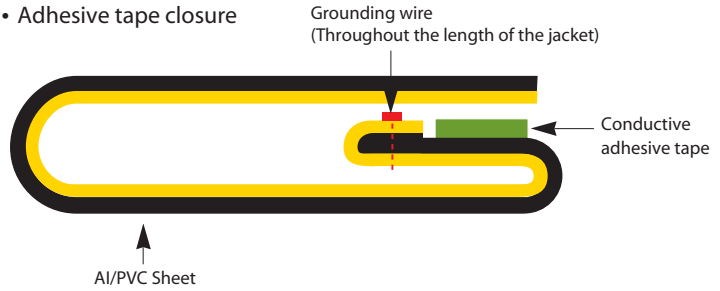


※ Tool required.

## ■ PAT



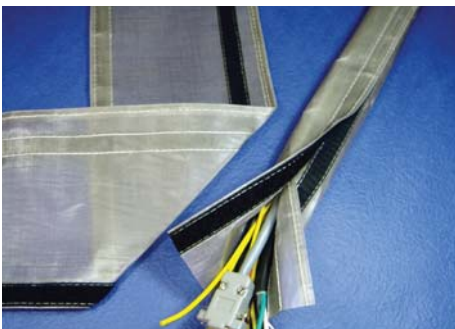
- Aluminum foil laminated PVC jacket
- for flat cables
- Adhesive tape closure



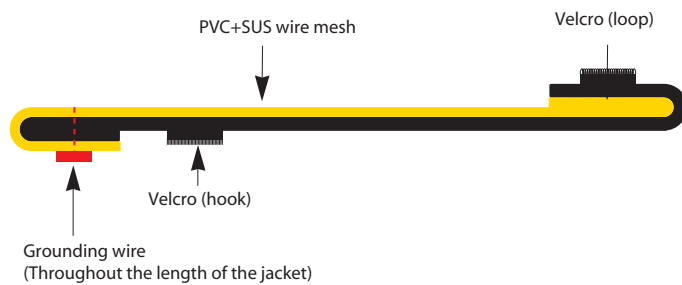
## ANTI-RAT-BITES JACKETS (PATENTED)

Rats cannot bite through the SUS wire mesh.

## ■ MJT



- SUS wire mesh laminated PVC jacket
- Velcro closure



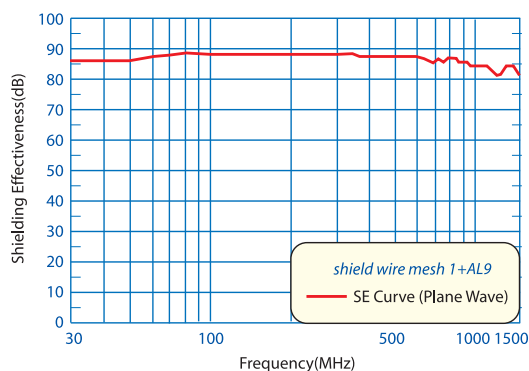
## MATERIAL SPECIFICATION

	Material	Specification
Base layer	Al/PVC laminated sheet	Structure : Al foil(0.01mm)+PET film+PVC film Thickness : 0.24mm Operating temp. : -15°C~+60°C Flame retardant : UL 94VTM -0 (equivalent)
	PVC sheet	Structure : PVC film Thickness : 0.35mm Operating temp. : -15°C~+60°C Flame retardant : UL 94VTM -0 (equivalent)
	Tarpaulin sheet	Structure : PVC film+PET fabric+PVC film Thickness : 0.35mm Operating temp. : -15°C~+60°C Flame retardant : UL 94VTM -0 (equivalent)
	PVC sheet+SUS wire mesh	Structure : PVC film + SUS wire mesh
Additional layers	Wire mesh tape	Material : Sn plated copper Wire diameter : 0.12mm
	Conductive fabric	Material : PET fabric+Cu, Ni plated Thickness : 0.09mm Surface resistance : < 0.08Ω / □ (ASTM D 257-99) Flame retardant : option
Grounding parts	Knitted wire mesh	Material : Sn plated copper
	Wire mesh tape	Material : Sn plated copper
Combination parts	Plastic button	Material : polyacetal
	Velcro tape	Material : polyester
	PVC zipper	Material : PVC
	Fastener	Material : polyester
	Double side PSA	Material : non-woven fabric+acrylic adhesive Adhesive power : 1100g/inch (ASTM D 3330)

## TYPICAL PERFORMANCE

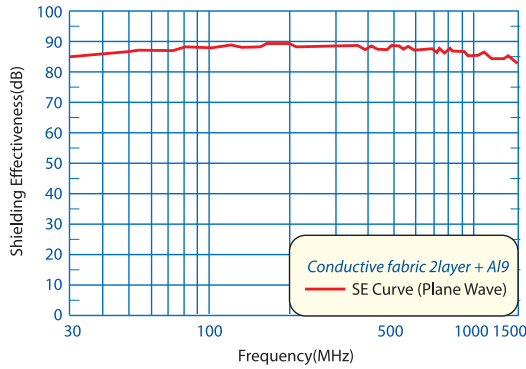
## ■ Shielding effectiveness

- Test standard : ASTM D 4935

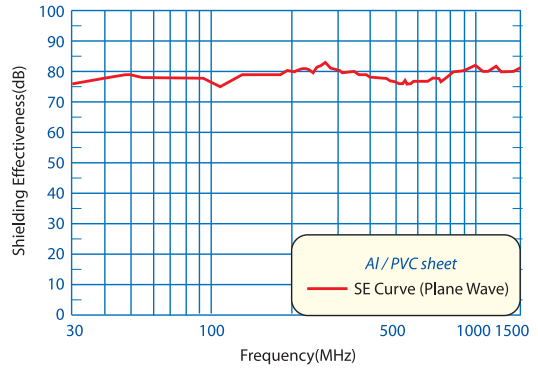


- Part number  
BAR(2). MAR(2). FAR(2). ZAR(2)
- Shield material:  
AL/PVC sheet+Wire mesh

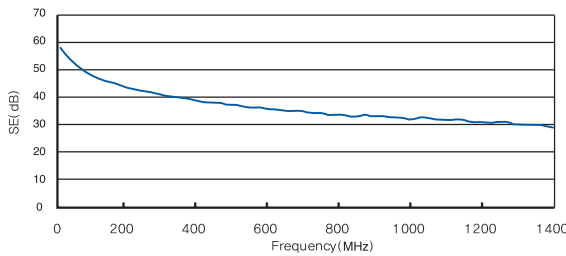
# EMI-Shielding Cable Jacket



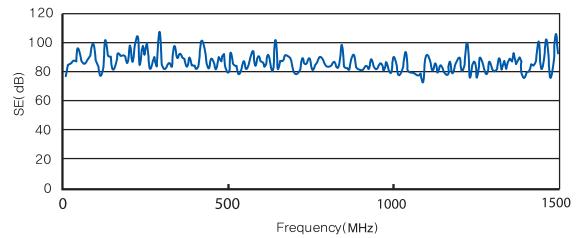
- Part number : ZAS(2)
- Shield material : AL/PVC sheet + Conductive fabric



- Part number : BAT. MAT. FAT. ZAT. PAT
- Shield material : AL/PVC sheet



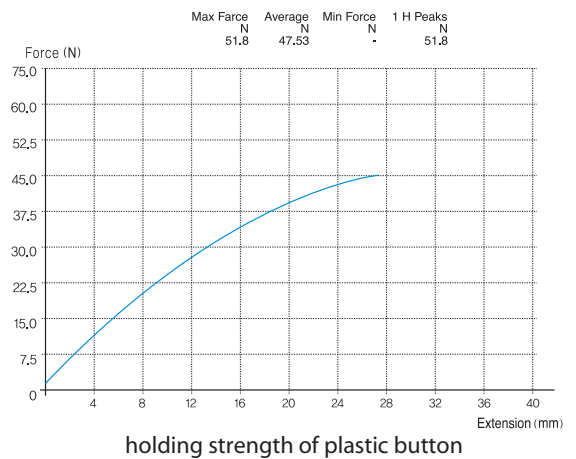
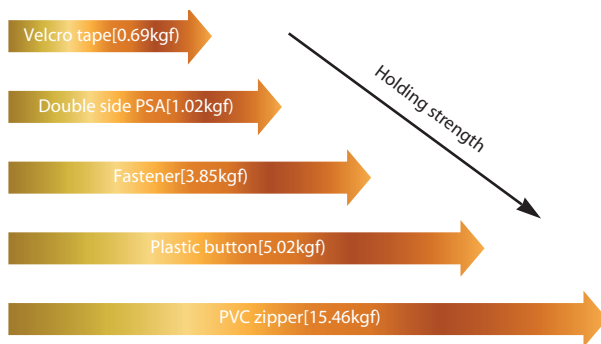
- Part number : MER(2)
- Shield material : Wire mesh



- Part number : MARS(3)
- Shield material : AL/PVC sheet + Wire mesh + Conductive fabric

## ■ Holding strength of closures

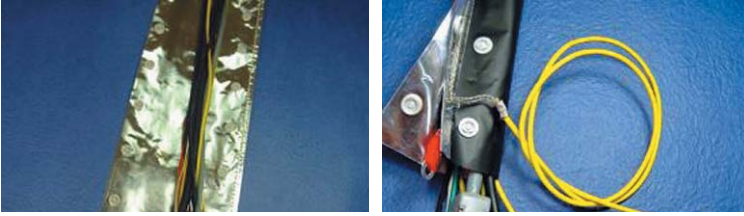
- Test method : ESQ-517-12
- Size of tested items : 50mm



## PART SELECTION GUIDE

1. Plastic button : For short cables
2. Velcro tape : When frequent re-wrapping is required; for long cables
3. PVC zipper : For airtight closure ; for not much winding applications
4. Fastener : For quicker installation ; for long cables ; for not much winding applications
5. Double side PSA : One time closure (Single use)

## PART SELECTION GUIDE (CONTINUED)



1. Choose cable jacket diameter 10 to 20% larger than cable diameter
2. Make sure to connect an extension (not provide) to the grounding wire built in the jacket and connect it to any ground. See the above right photo for reference.