

# KNITSHIELD | Knitted Mesh KW Shielding

KW Shielding knitted mesh bandage is a tubular form knitted stocking supplied in flat tape form. They are available in four basic wire types – Monel, Aluminium, TCS (Tinned Copper-clad Steel) and Stainless Steel.



## Applications:

Knitted mesh tapes are generally used to wrap cable forms, wiring systems or conduit to provide a high integrity 4-layer screen, which, if adequately grounded, can greatly reduce radiated interference.

The tape is a nominal 0.4mm thick and should be spirally overlapped by 50% to provide full screening effectiveness. Each end should be soldered or clamped, avoiding twisting into a 'pigtail' which could effectively become an antenna.

## Specifications:

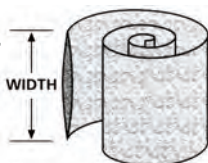
Monel	- BS3075 – NA13	(0.11mm diameter)
Aluminium 5056	- AMS 4182	(0.13mm diameter)
TCS	- ASTM B520	(0.11mm diameter)
Stainless Steel	- Alloy 304	(0.11mm diameter)

## Performance: Typical Attenuation dB

FREQUENCY	FIELD	MONEL	ALUMINIUM	TCS	S/STEEL
10KHz	H	45	40	60	40
100KHz	H	49	45	65	44
1MHz	H	60	60	85	58
1MHz	E	125	125	125	125
10MHz	E	120	120	120	120
100MHz	E	100	100	108	100
400MHz	P	98	95	99	94
1GHz	P	85	76	78	76
10GHz	P	80	65	62	60

## Tolerances:

± 2mm on width



## How to order:

Standard sizes can be specified from the table opposite.

### Example:

KW-A-55-0127 is Aluminium mesh tape 12.7 mm wide



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SERIES	WIRE CODE	STYLE	SIZE
KW	M=Monel	55 (flat tape)	0127 (12.7mm)
	A=Aluminium		0254 (25.4mm)
	T=TCS		0508 (50.8mm)
	S=Stainless Steel		

KR Shielding compressed mesh washers, gaskets and seals utilise knitted mesh formed under pressure into resilient high density profiles.

# KNITSHIELD | Knitted Mesh KR Shielding

## Applications:

Compressed knitted mesh profiles are used as gland rings, grounding buttons, magnetron seals and numerous other applications where a high density mesh is required.

Each application will be individual and related to the specific and mechanical properties of the gasket so please contact us to discuss your requirements.

## Specifications:

Monel	- BS3075 – NA13	(0.11mm diameter)
Aluminium 5056	- AMS 4182	(0.13mm diameter)
TCS	- ASTM B520	(0.11mm diameter)
Stainless Steel	- Alloy 304	(0.11mm diameter)



## Performance: Typical Attenuation dB

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100MHz	E	100	100	108	100
400MHz	P	98	95	99	94
1GHz	P	85	76	78	76
10GHz	P	80	65	62	60

## Tolerances:

± 0.5mm on width

## How to order:

Specify series KR, wire type and describe your component by its outside and inside diameters plus thickness (if an 'o' ring) or by means of a drawing if a formed gasket or profile section.

### Example:

KR-S-50-0254-0159-0032 is a Stainless Steel washer 25.4 x 15.9 x 3.2mm

For further details on how to specify, please contact us.

SERIES	WIRE CODE	STYLE	SIZE (or) DRAWING NO.
KR	M=Monel A=Aluminium T=TCS S=Stainless Steel	50 (ring)	xxxx-xxxx (or) xxxx-xxxx



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