

Application Notes / Overview

Knitshield - knitted mesh

catalogue pages 4-13

Knitshield is made from several different wire types depending on application - monel, aluminium, tinned copper clad steel, brass & stainless steel. P&P Technology are always happy to provide guidance on the best wire for your application.



KP Shielding - Knitted mesh in a tube form, providing high levels of EMI shielding when evenly compressed between two conductive surfaces.

KP Advantages - Low cost
Long Service Life
Good EMC performance
Custom sizes easily manufactured

KP Applications -
Permanently fixed cover plates
*usually fitted in a groove when used on doors

KP Points to Note -
No environmental seal
Will adopt compression set

KE Shielding - Knitted mesh in a tube form over an elastomer core.

KE Applications -
Door seals
Access covers
*usually fitted in a groove

KE Points to Note -
no seal against liquid ingress

KE Advantages - Low cost
Improved compression-set performance
Reduced closure force
Limited environmental seal
Good EMC performance
Custom sizes easily manufactured
Can be supplied as ready to fit gaskets



KC Shielding - Knitted mesh over an elastomer core bonded to a non-conductive material carrier to provide an environmental seal - usually fitted with a self-adhesive strip to aid mounting (also known as twinstrip)

KC Advantages - low cost
Ease of application
Environmental seal
Good EMC performance
Reduced closure force
Variety of material combinations may be used
Can be supplied as ready to fit gaskets

KC Applications -
Door seals
Access covers

KC Points to Note -
None

Application Notes / Overview

Knitshield - knitted mesh

KM Shielding - Knitted mesh over an elastomer core bonded to an aluminium extrusion carrier. Dual variants also provide an environmental seal.

KM Applications -

Cover panels
Door Seals

KM Points to Note -

Maximum 3m length

KM Advantages -

Good EMC Performance
Extrusion acts as limit stop
Can provide environmental seal
Robust construction
May be bolted or riveted in place



KW Shielding - Knitted tubular mesh stocking supplied in flat form, these meshes can be wrapped around cable-forms for effective screening if adequate ground termination is provided.

KW Advantages - Low cost

Easy to use

KW Applications -

Screening cable forms

KW Points to Note -

None

KR Shielding - Compressed knitted mesh washers

KR Applications -

Antenna seals
Connector seals
Cable glands

KR Advantages - Cost effective

Consistent construction / performance

KR Points to Note -

Requires individual tooling
Washers can only be circular



P&P Technology are specialist manufacturers of EMI / RF shielding products. For application notes on the rest of our range, or one of our catalogues, please find our contact details below.

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