

Knitex® Shielding Tapes

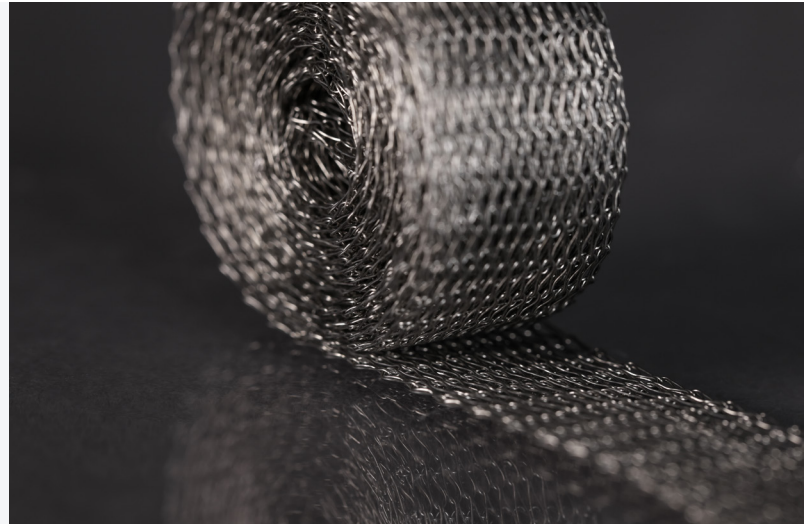
Approved supplier to the world's leading military and specialist aerospace companies



Protecting People, Property and our Planet

Knitex® Shielding Tapes protect against Microwave transmissions, Radio Frequency Interference (RFI) and Electro-Magnetic Interference (EMI).

Typical applications include: aviation and aerospace electronics, telecommunications, medical equipment, laboratory & test equipment and electrical enclosures.



Principles of Operation

Knitex® Shielding Tapes are primarily used in electrical and electronic cable jointing and connector assemblies, and in grounding and static discharge applications.

The Shielding Tapes are fabricated by knitting a fine diameter wire (typically 0.1mm–0.15mm) into a double thickness lay-flat tubular-shaped 'sock'. Knitex® Shielding Tapes, whilst being lightweight, extremely flexible and highly resistant to corrosion and temperature extremes, are also stronger and more resistant to abrasion and physical damage than other types of Shielding Tapes.

The knitted mesh is typically applied by 'bandage wrapping' (for example around a cable with a 50% overlap) to provide a four-layer shield that can be terminated at each end by means of clamping, soldering or spot welding. Alternatively, our Shielding Tape can be opened into a tube and used as a protective sleeve.

Features & Benefits

- Highly effective EMI and RFI shielding
- High corrosion and temperature resistance
- More resistant to abrasion and physical damage than other tape materials
- More environmentally friendly than plastic alternatives
- Available in a wide variety of profiles and materials
- Available in crimped form for increased thickness
- Manufactured using state-of-the-art techniques
- Available in a range of widths from 6mm to 200mm

Tel: +44 (0) 1352 717 600

Email: sales@knitmeshtechnologies.com

Fax: +44 (0) 1352 714 909

Coast Road, Greenfield, Flintshire, CH8 9DP United Kingdom



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1. Application

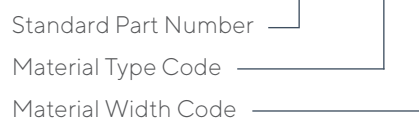
The knitted mesh is to be used with 360° EMI/RFI screen terminations.

Other applications include:

- Panel seals in screened rooms
- Areas with infrequent access
- Cable shielding (wrapping with flat bandage)

2. Designation

Description Block	Identity Block	Quantity
KNITMESH	PAN6643-25 B 20	A/R



3. Material Selection Criteria

KnitMesh materials for use with 360° screening applications shall be selected in accordance within the selection criteria given within the tables below:

3.1 Harness Containing Screened Cables With Overbraid

Finish of Overbraid & Cable Screens	KnitMesh Material Type Required
Tin Overbraid: Nickel Screens Only	Tin – PAN Style C, or Nickel – PAN Style B
Tin Overbraid: Silver Screens Only	Tin – PAN Style C
Tin Overbraid: Nickel & Silver Screens	Tin – PAN Style C
Nickel Overbraid: Nickel Screens Only	Nickel – PAN Style B
Nickel Overbraid: Silver Screens Only	Nickel – PAN Style B
Nickel Overbraid: Nickel & Silver Screens	Nickel – PAN Style B

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3.2 Harness Containing Screened Cables Without Overbraid

Finish of Overbraid & Cable Screens	KnitMesh Material Type Required
Nickel Screens Only	Nickel - PAN Style B
Silver Screens Only	Tin - PAN Style C
Nickel & Silver Screens	Tin - PAN Style C

4. Dimensions

Width Code	Width	Strands Diameter in mm	Approx. Number of Stitches per cm on Length	Approx. Number of Stitches per cm Across Layflat
12	13	0.15	3.5	4.4
20	20	0.15	4.0	5.9

5. Material & Finish

Material Code	Material/Finish	Finish Thickness Min.	Material Designation
A	Nickel Plated Copper (Ni Cu)	1.27 um	Copper to BS 4109 C101 or ASTM B 335 with nickel plating
B	Tin Plated Copper (TC)	0.7 um	Copper to BC 4109 C101 with electro-plated tin

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6. Mass

Standard Part No.	Mass (g/m)
PAN6643-25B12	11.0
PAN6643-25B20	12.0
PAN6643-25C12	10.0
PAN6643-25C20	12.0

7. Supplier to KnitMesh Part Number Conversion

Supplier Code	KnitMesh Code
6643-25A12	58F09022/0.15/SCC/13
6643-25A20	58F09022/0.15/SCC/20
6643-25B12	58F09022/0.15/NC/13
6643-25B20	58F09022/0.15/NC/20
6643-25C12	58F09022/0.15/TC/13
6643-25C20	58F09022/0.15/TC/20
6643-25D12	58F09022/0.15/SS304/13
6643-25D20	58F09022/0.15/SS304/20

Quality Assurance

KnitMesh Technologies® is accredited to:
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018,
PAS 99:2012 and IATF 16949:2016



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