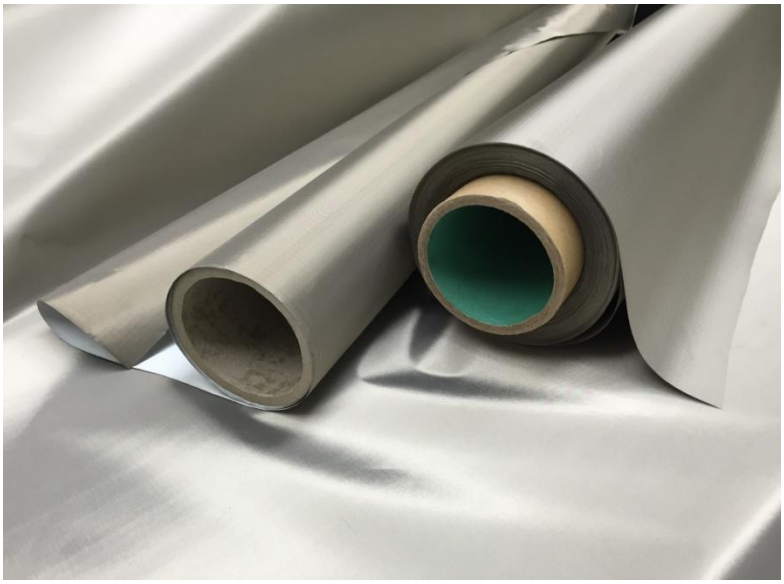
Technical Bulletin 709

Conductive Shielding Fabric

Metal Textiles has been a pioneer in EMI/RFI gasketing and shielding products for more than five decades. In fact, Metal Textiles developed the very first EMI/RFI gasket to help MIT solve a severe interference problem for the earliest high-power, high-frequency airborne radar.



RF & EMI Shielding Mesh since 1944

That pioneering spirit is still alive today with a complete line of military and commercial grade EMI/RFI shielding product solutions.

Electrically Conductive woven fabrics, with well posted porosity fabric is plated by Nickel and Copper by electroless plating system, which is low reflection, high speed transmission, excellent shielding effectiveness. This fabric has good characteristic as excellent in flexibility and bending durability, high air permeation and high resin penetration. Can be supplied with or without PSA.

Specifications

Product Number	Base Material	Without or with Adhesive	Flame Rating	Width Standard per Roll	Length	Strength Of Adhesion (gr/25mm)	Surface Resistance (Ω/sq. inch)
709-2100	Rip-Stop	Conductive Acrylic	Yes	1.3 m	100 m	1000	.05~.08
709-2100	Taffeta	Conductive Acrylic	Yes	1.3 m	100 m	1000	.05~.08
709-9100	Micro-Fiber	Conductive Acrylic	Yes	1.3 m	100 m	1000	.05~.08

Metal Textiles Corp.
970 New Durham Road Edison, NJ 08818
(732) 287-0800
sales@metexcorp.com
http://www.metexcorp.com

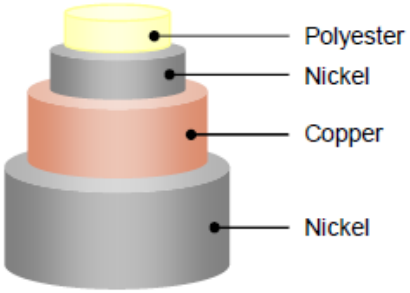
Electrically Conductive Woven Rip-stop Fabric 709-2100

Product Description

709-2100, the electrically conductive woven fabric (Rip-stop), with well posted porosity fabric is plated by Nickel and Copper by electroless plating system, which is low reflection, high speed transmission, excellent shielding effectiveness. This fabric has good characteristic as excellent in flexibility and bending durability, high air permeation and high resin penetration.

Construction

Property	Value
Composition	woven(Rip-stop)
Filament count / in	260
Plating method	Electroless plating
Plating form	Polyester with Ni + Cu + Ni



Technical Data

Item		Unit	Spec.	Test Method
Thickness		mm	0.1 ± 0.01	Digital upright gauge
Weight		g/m²	80 ± 3	
Width		mm	1,060	
Roll length		M	100 ~ 200	
Density	Warp Weft		144 ± 5 130 ± 5	ASTM D 3775
Breaking strength	Warp Weft	N	479 ± 10 391 ± 10	ASTM D 5034
Elongation	Warp Weft	%	31.9 ± 5 30.2 ± 5	ASTM D 5034
Electric resistivity	Surface Top-bottom	Ω /sq Ω /in²	Less 0.1 Less 0.05	MIL DTL 83528C
Max. short duration temp.		℃	210	JIS L 849
Shielding effectiveness (30MHz to 1GHz)		dB	80 ~ 65	ASTM D 4935-89

The data is just examples of measurements and not guaranteed performance. You are strongly advised to confirm how to use the articles before actual use. When you keep a product, please avoid direct rays, heat and high humidity. (Term of guarantee is during 1year from the date of manufacturing)

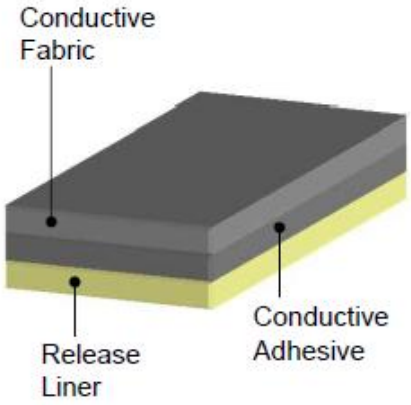
Metal Textiles Corporation
970 New Durham Road Edison, New Jersey 08818
Phone: 1-800-222-0969 732-287-0800 Fax: 732-287-8546
E-mail: sales@metexcorp.com
www.metexcorp.com

Electrically Conductive Woven Rip-stop Fabric with Conductive Adhesive (PSA) 709-2102

Product Description

709-2102, is conductive fabric(Rip-stop) with conductive adhesive(PSA) which has conductibility for X-Y-Z axis direction. It has low contact resistance and superior adhesive force. This tape is applied to various electronic devices required for shielding of EMI) effectively. It is packed per roll and can be supplied as die-cut parts on release liner paper.

Construction	
Property	Value
Backing Type	Conductive Fabric 709-100 (Rip-Stop)
Adhesive Type	Conductive Adhesive
Release Liner	Paper Liner



Technical Data

Item	Unit	Spec.	Test Method
Total Thickness	mm	0.11 ± 10%	Digital Upright Gauge
Adhesive Force	gf/25mm	900	KS T 1028 (SUS304)
Surface Resistance	Ω / sq	Less 0.1	MIL DTL 83528C
Top-bottom Resistance	Ω / in^2	Less 0.1	MIL DTL 83528C
Color	-	Gray	
Use Temp.	℃	-10 to 80	ASTM D 3330

The data is just examples of measurements and not guaranteed performance. You are strongly advised to confirm how to use the articles before actual use. When you keep a product, please avoid direct rays, heat and high humidity. (Term of guarantee is during 1year from the date of manufacturing)

Metal Textiles Corporation
970 New Durham Road Edison, New Jersey 08818
Phone: 1-800-222-0969 732-287-0800 Fax: 732-287-8546
E-mail: sales@metexcorp.com
www.metexcorp.com

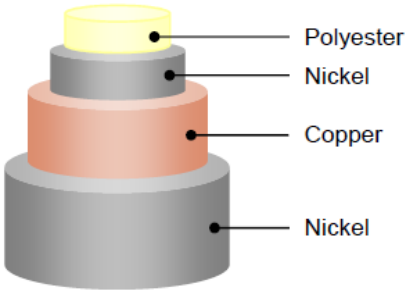
Electrically Conductive Woven Taffeta Fabric 709-3100

Product Description

709-3100, the electrically conductive woven fabric (Taffeta), with well posted porosity fabric is plated by Nickel and Copper by electroless plating system, which is low reflection, high speed transmission, excellent shielding effectiveness. This fabric has good characteristic as excellent in flexibility and bending durability, high air permeation and high resin penetration.

Construction

Property	Value
Composition	woven (Taffeta)
Filament count / in	290
Plating method	Electroless plating
Plating form	Polyester with Ni + Cu + Ni



Technical Data

Item		Unit	Spec.	Test Method
Thickness		mm	0.1 ± 0.01	Digital upright gauge
Width		mm	1,060	
Roll length		M	100 ~ 200	
Density	Warp Weft		188 ± 5 92 ± 5	ASTM D 3775
Breaking strength	Warp Weft	N	671.3 ± 10 392 ± 10	ASTM D 5034
Elongation	Warp Weft	%	27.6 ± 5 36.8 ± 5	ASTM D 5034
Electric resistivity	Surface Top-bottom	Ω /sq Ω /in^2	Less 0.1 Less 0.05	MIL DTL 83528C
Max. short duration temp.		℃	210	JIS L 849
Shielding effectiveness (30MHz to 1GHz)		dB	80 ~ 65	ASTM D 4935-89

The data is just examples of measurements and not guaranteed performance. You are strongly advised to confirm how to use the articles before actual use. When you keep a product, please avoid direct rays, heat and high humidity. (Term of guarantee is during 1year from the date of manufacturing)

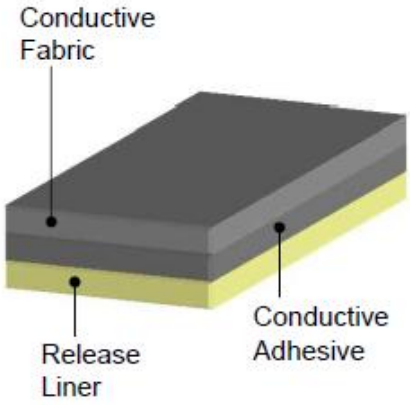
Metal Textiles Corporation
970 New Durham Road Edison, New Jersey 08818
Phone: 1-800-222-0969 732-287-0800 Fax: 732-287-8546
E-mail: sales@metexcorp.com
www.metexcorp.com

Electrically Conductive Woven Taffeta Fabric with Conductive Adhesive (PSA) 709-3102

Product Description

709-3102, is conductive fabric(Taffeta) with conductive adhesive(PSA) which has conductibility for X-Y-Z axis direction. It has low contact resistance and superior adhesive force. This tape is applied to various electronic devices required for shielding of EMI) effectively. It is packed per roll and can be supplied as die-cut parts on release liner paper.

Construction	
Property	Value
Backing Type	Conductive Fabric 709-3100 (Taffeta)
Adhesive Type	Conductive Adhesive
Release Liner	Paper Liner



Technical Data

Item	Unit	Spec.	Test Method
Total Thickness	mm	0.11 ± 10%	Digital Upright Gauge
Adhesive Force	gf/25mm	900	KS T 1028 (SUS304)
Surface Resistance	Ω / sq	Less 0.1	MIL DTL 83528C
Top-bottom Resistance	Ω / in^2	Less 0.1	MIL DTL 83528C
Color	-	Gray	
Use Temp.	℃	-10 to 80	ASTM D 3330

The data is just examples of measurements and not guaranteed performance. You are strongly advised to confirm how to use the articles before actual use. When you keep a product, please avoid direct rays, heat and high humidity. (Term of guarantee is during 1year from the date of manufacturing)

Metal Textiles Corporation
970 New Durham Road Edison, New Jersey 08818
Phone: 1-800-222-0969 732-287-0800 Fax: 732-287-8546
E-mail: sales@metexcorp.com
www.metexcorp.com

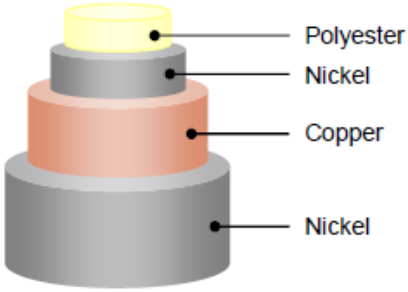
Electrically Conductive Micro-fiber Woven Fabric 709-9100

Product Description

709-9100, the electrically conductive micro-fiber polyester woven fabric, with well posted porosity fabric is plated by Nickel and Copper by electroless plating system, which is low reflection, high speed transmission, excellent shielding effectiveness. This fabric has good characteristic as excellent in flexibility and bending durability, high air permeation and high resin penetration.

Construction

Property	Value
Composition	Micro-fiber woven
Filament count / in	320
Plating method	Electroless plating
Plating form	Polyester with Ni + Cu + Ni



Technical Data

Item		Unit	Spec.	Test Method
Thickness		mm	0.040 ± 0.01	Digital upright gauge
Weight		g/m²	46 ± 5	
Width		mm	1,060	
Roll length		M	100 ~ 200	
Density	Warp Weft		225 ± 5 145 ± 5	ASTM D 3775
Breaking strength	Warp Weft	N	250 ± 5 120 ± 5	ASTM D 5034
Elongation	Warp Weft	%	15 ± 5 21 ± 5	ASTM D 5034
Electric resistivity	Surface Top-bottom	Ω /sp Ω /in²	Less 0.1 Less 0.05	MIL DTL 83528C
Max. short duration temp.		℃	210	JIS L 849
Shielding effectiveness (30MHz to 1GHz)		dB	85 ~ 65	ASTM D 4935-89

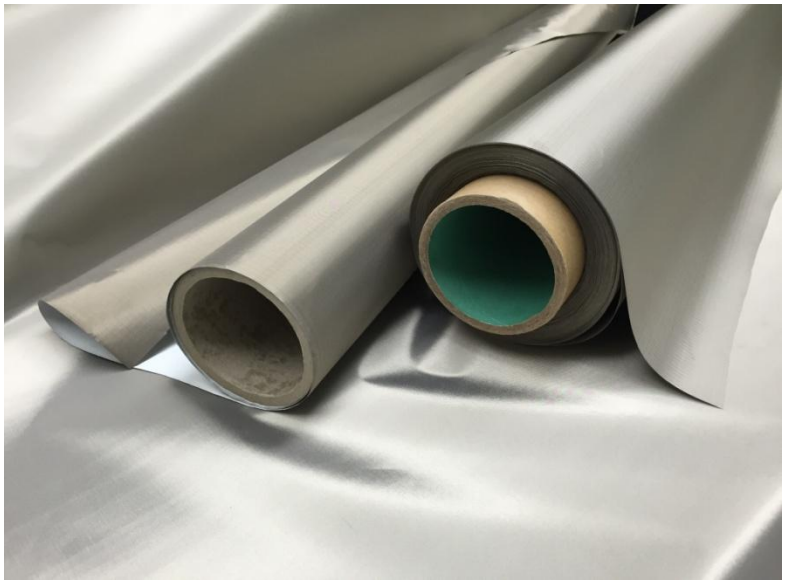
The data is just examples of measurements and not guaranteed performance. You are strongly advised to confirm how to use the articles before actual use. When you keep a product, please avoid direct rays, heat and high humidity. (Term of guarantee is during 1year from the date of manufacturing)

Metal Textiles Corporation
970 New Durham Road Edison, New Jersey 08818
Phone: 1-800-222-0969 732-287-0800 Fax: 732-287-8546
E-mail: sales@metexcorp.com

Technical Bulletin 709

Conductive Shielding Fabric

Metal Textiles has been a pioneer in EMI/RFI gasketing and shielding products for more than five decades. In fact, Metal Textiles developed the very first EMI/RFI gasket to help MIT solve a severe interference problem for the earliest high-power, high-frequency airborne radar.

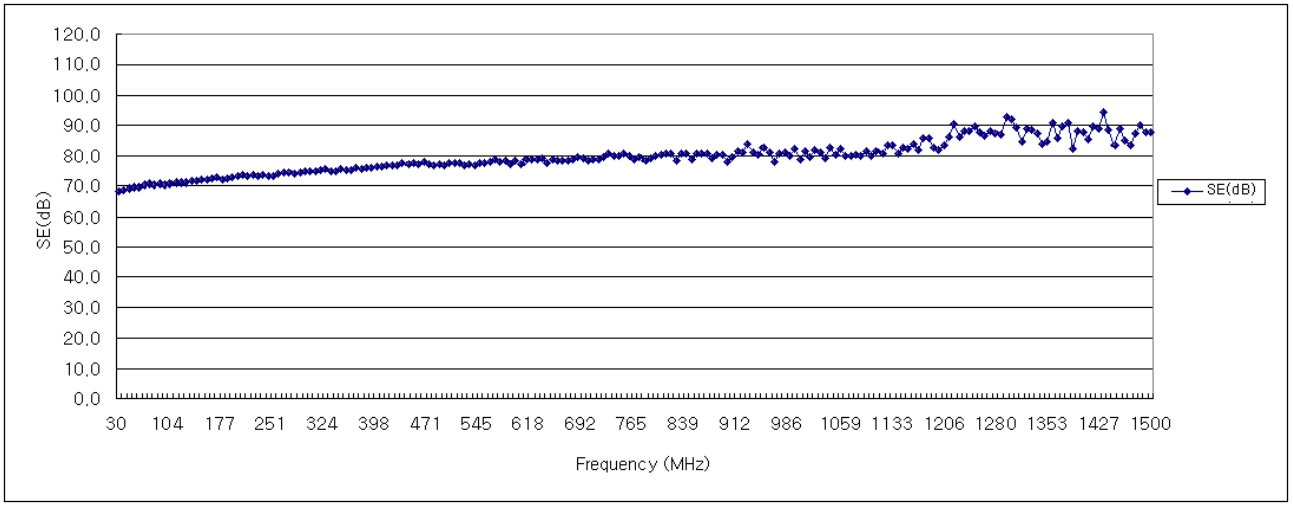


RF & EMI Shielding Mesh since 1944

That pioneering spirit is still alive today with a complete line of military and commercial grade EMI/RFI shielding product solutions.

Electrically Conductive woven fabrics, with well posted porosity fabric is plated by Nickel and Copper by electroless plating system, which is low reflection, high speed transmission, excellent shielding effectiveness. This fabric has good characteristic as excellent in flexibility and bending durability, high air permeation and high resin penetration. Can be supplied with or without PSA.

Shielding effectiveness for Conductive Shielding Fabric



Metal Textiles Corp.

970 New Durham Road Edison, NJ 08818

(732) 287-0800

sales@metexcorp.com

http://www.metexcorp.com