



Conductive Fabric Descriptions and Applications

For specific material properties, see Data Summary Chart (page 25)

Product No.	Material	Description	Application
3027-106	Cu Polyester Nonwoven	Combines a highly conductive metal with the light weight, flexibility, and breathability of a nonwoven. Offers excellent surface conductivity, shielding effectiveness, and reflectivity.	Protects against EMI/RFI and ESD where weatherability is not a concern: architectural gaskets, tapes, shielding laminates, and grounding.
3027-217	Ni/Cu Polyester Nonwoven	The base layer is the highly conductive copper, with an outer layer of nickel for corrosion resistance. Combines the properties of these metals with the light weight, flexibility and breathability of a nonwoven material. Offers excellent surface conductivity, shielding effectiveness, and corrosion resistance.	Protects against EMI/RFI and ESD for a variety of applications and environments: architectural shielding, gaskets, tapes, shielding materials and ribbon.
3027-235	Ni/Cu Polyester Nonwoven UL94 VTM-0	Combines highly conductive copper and corrosion resistant nickel with the lightweight, flexibility and breathability of a nonwoven. Offers excellent surface conductivity, shielding effectiveness and corrosion resistance. This product achieves the UL94 VTM-0 flammability rating.	Protects against EMI/RFI and ESD for a variety of applications and environments: architectural shielding, gaskets, tapes, shielding laminates, and grounding.
3035-213*	Ni/Cu Polyester Taffeta	Combines highly conductive copper and corrosion resistant nickel with the light weight, flexibility, conformability, strength and uniform appearance of a woven. Nickel/Copper Polyester Taffeta offers excellent surface conductivity, shielding effectiveness, and reflectivity.	Protects against EMI/RFI for a variety of applications and environments: enclosures, curtains, gaskets, cable wrap, tapes, shielding laminates, and grounding.
3035-216*	Ni/Cu Polyester Taffeta UL94 V0	Combines highly conductive copper and corrosion resistant nickel with the light weight, flexibility, conformability, strength and uniform appearance of a woven. Nickel/Copper Polyester Taffeta offers excellent surface conductivity shielding effectiveness, and reflectivity.	Protects against EMI/RFI for a variety of applications and environments: enclosures, curtains, gaskets, cable wrap, tapes, shielding laminates, and grounding.
3055-233*	Ni/Cu Polyester Ripstop	The base layer is the highly conductive copper, with an outer layer of nickel for corrosion resistance. Combines the properties of these metals with the light weight, drapability, strength, and attractive appearance of a Polyester Ripstop. Nickel/Copper Polyester Ripstop offers excellent surface conductivity, shielding effectiveness, and corrosion resistance.	Protects against EMI/RFI and ESD for a variety of applications and environments: enclosures, cables, gaskets, tapes, and grounding.
3070-500	Ni/Cu Polyester Mesh	Combines highly conductive copper and corrosion resistant nickel with the light weight, flexibility, conformability, breathability and uniform appearance of a knitted mesh. Mesh offers excellent surface conductivity, shielding effectiveness, and reflectivity for a variety of applications.	Protects against EMI/RFI for a variety of applications and environments: enclosures, curtains, gaskets, cable wrap, tapes, shielding laminates, and grounding.
3050-113	Cu Nylon Ripstop	This technology combines a highly conductive metal with the light weight, drapability, strength, flexibility, conformability, and attractive appearance of a nylon ripstop. Copper Nylon Ripstop offers excellent surface conductivity, shielding effectiveness, and reflectivity.	Protects against EMI/RFI where weatherability is not a concern: enclosures, curtains, tapes, shielded laminates, infrared camouflage, and radar reflector.
3050-226*	Ni/Cu Nylon Ripstop	This technology combines highly conductive copper and corrosion resistant nickel with the lightweight, drapability, strength, flexibility, conformability, and attractive appearance of a Nylon Ripstop. Nickel/Copper Nylon Ripstop offers excellent surface conductivity, shielding effectiveness, and reflectivity.	Protects against EMI/RFI: enclosures, curtains, gaskets, tapes, shielded laminates, infrared camouflage, and radar reflector.
3050-517*	Ni/Cu Nylon Ripstop UL94 V0	This technology combines highly conductive copper and corrosive resistant nickel with the drapability, strength, flexibility, and attractive appearance of a Nylon Ripstop fabric. Excellent surface conductivity, shielding effectiveness, and UL94 V0 rating.	Protects against EMI/RFI: enclosures, cables, tapes, and grounding.
3055-121	Cu Polyester Ripstop	This technology combines a highly conductive metal with the lightweight drapability and attractive appearance of a Polyester Ripstop. Copper Polyester Ripstop offers excellent surface conductivity and shielding effectiveness.	Protects against EMI/RFI and ESD: enclosures, cables, tapes, grounding, infrared camouflage, and radar reflector.

* Note: Optional anti-fray coating on Ni/Cu woven material.

All dimensions shown are in inches (millimeters) unless otherwise specified.



Conductive Tape

Conductive ElectroTape

A soft conductive foil is laminated to a conductive acrylic adhesive which is protected by a siliconised paper cover. The foils can either be supplied with bright surface or with tin plating. Beside the standard widths other dimensions per customer specification are possible. In this case there is a min. quantity of reels which is determined by the master reel with a width of 11,811 inch (300 mm) out of which the individual reels have to be cut.

Also available:

With conductive acrylic adhesive on both sides.

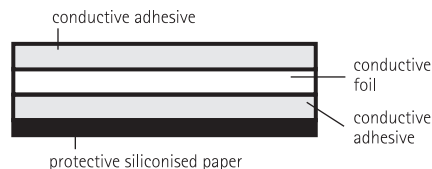


Part No.	8271-xxxx-39	8271-xxxx-76	8277-xxxx-77	8277-xxxx-39	8277-xxxx-76
Foil material	soft copper	soft copper	soft aluminium	soft copper	soft copper
Surface	bright + clean	tin plated	bright + clean	bright + clean	tin plated
Thickness foil material	0,001 (0,035)	0,001 (0,035)	0,002 (0,040)	0,001 (0,035)	0,001 (0,035)
Thickness incl. Adhesive	0,002 (0,065)	0,002 (0,065)	0,003 (0,070)	0,003 (0,085)	0,003 (0,085)
Adhesive	electrically conductive acrylic	electrically conductive acrylic	electrically conductive acrylic	electrically conductive acrylic	electrically conductive acrylic
Protective cover over foil material	no	no	no	not applicable	not applicable
Adhesive performance	4,5 N/cm	4,5 N/cm	4,5 N/cm	5 N/cm	5 N/cm
Tensile strength	50 N/cm	40 N/cm	25 N/cm	55 N/cm	40 N/cm
Tear elongation	6 - 10%	5%	8%	-	5%
Max. temp. contin.	+ 150°C	+ 150°C	+ 150°C	+ 150°C	+ 150°C
Width of foil in mm	12-20-25	12-20-25	12-20-25	12-20-25	12-20-25
Length/reel in m	33	33	33	33	33
Resistance along foil	0,002 Ω	0,002 Ω	<1 Ω	not applicable	not applicable
Resistance through foil	<0,1 Ω	<0,1 Ω	<1 Ω	<0,1 Ω	<0,1 Ω
Listing per	MIL-T-47012	-	MIL-T-47012	-	-
Construction	Foil 1	Foil 1	Foil 1	Foil 2	Foil 2

Foil 1



Foil 2



Ordering Code

The ordering code consists of the partgroups, reel width and material code:

8271-0020-76



material code
reel width
partgroups

For length and widths not shown, design assistance, samples, or further information, contact our sales department.

All dimensions shown are in inches (millimeters) unless otherwise specified.