

COATS
magellan



CONDUCTIVE

Coats® Magellan™

Coats Magellan is a range of futuristic 'smart' threads which offer great sewability for different market needs using blending, twisting, braiding, covering and/or coating technologies. Ranging from electro-conductive to resistive heating to RFID technology, 'smart' conductive threads can enhance end use applications within different industries including automotive, bedding and mattress, clothing and accessories and so much more.

WHY CHOOSE MAGELLAN?

- Thread blends can be tailored to customers' end use requirements
- Available in a wide range of sizes, blends, twists and/or coatings
- Resistive values can be tuned to very low or high linear resistance (ohms/metre)
- Differing materials and constructions can be used to generate conductivity

MAIN USES

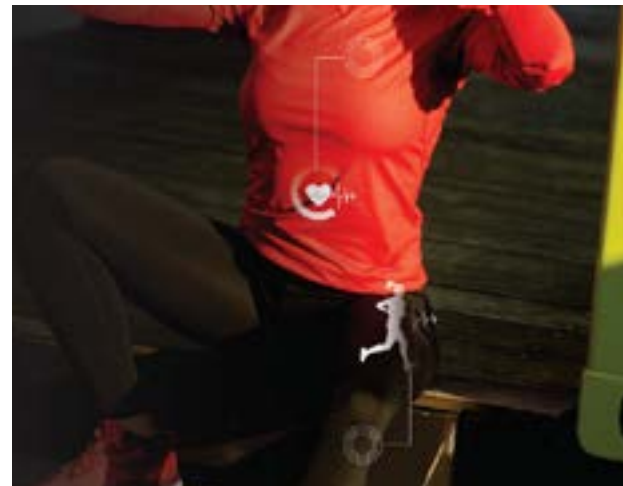
- Clean rooms
- Hospitals
- Filters
- Microwaves
- Mobile phones
- WiFi
- Car seat systems
- Heated clothing
- Gloves
- Transfer power
- Sense stimuli
- Actuate systems
- Health / body sensors
- Smart textiles



Coats Magellan

PRODUCT RANGE

Count Range (Single or Plied)	Size/ Ticket	Cone Type	Construction	Resistivity ohm/mt	Application
1 ply	12	600 mt	70% Steel 30% PES	< 60 Ω /m	Sewing
1 ply	20	1.000 mt	70% Steel 30% UHMWPE	< 150 Ω /m	Sewing
2 ply	50	600 mt	30% Stainless steel 70% PES	< 12 k Ω /m	Sewing
2 ply	80	1.000 mt	70% CFP 30% AS	< 12 M Ω /m	Sewing
2 ply	80	1.000 mt	70% PES 30% Conductive	< 24 M Ω /m	Sewing
2 ply	100	600 mt	55% Conductive silver 45% PES	< 500 Ω /m	Sewing
2 ply	120	600 mt	90% PES 10% Conductive	< 48 M Ω /m	Sewing



Coats Magellan

EXPERT REAL WORLD SUPPORT

The final cost of any product also includes hidden costs, fuelled by the methods and tools applied to it. Our experts know exactly how to reduce those costs, save time and increase productivity.



One to One Visits

There's no need to come to us, our experts will travel to your site. In person, online or via the phone, our trained consultants deal with the kind of issues any busy factory may face, providing a solution for today and a blueprint for future efficiency.



Training and Presentations

From product selection to stitch formation, the use of colour to solutions for common production issues, we take the learning gathered through years of hands on experience and present it in the form of high impact seminars, workshops and presentations.



Innovation hub

Collaborate directly with expert R&D technologists at our Innovation Hub to create pioneering and tailored solutions for products ranging from Performance Materials to Apparel and Footwear. Equipped with state-of-the-art technology, we quickly turn ideas into prototype designs ready for manufacturing.

To drive your hidden costs down, talk to Coats. From product audits in pre-production to the latest technological bulletins, we'll provide support that achieves measurable results.

For more information, talk to your Coats representative today or visit coats.com

Since conditions and applications vary considerably in the use of a product, the customer and/or user should assure themselves that the product meets end customer requirements and is suitable for the intended end use. Coats accepts no liability for unsuitable or improper use or application of products. Information provided is based on current averages and should be taken only as indicative. Coats accepts no liability for the preciseness and correctness of the information provided. Product information sheets are updated for time to time, please be sure you are referring to the most recent publication. Coats supports customers with advice on individual applications on request; if you have any questions or concerns, please contact us. © Copyright reserved 2018

OTHER PRODUCTS IN THE MAGELLAN RANGE

To compliment the Magellan range, we also have a selection of specialist Magellan threads. Each of these have additional benefits specific to the end use.

Product Name	Description
Electro-Conductive	Wirelessly charge, transfer power, carry messages and actuate systems with a highly conductive material.
Resistive Heating	Pass a current through a yarn and conductive material to heat items like a car seat or mattress.
RFID Technology	Integrate a tag with an object so it can be automatically identified or assist with data capture. Best for uses like automotive, smart textiles, and health and body sensors.
Anti-Static	Reduce the static charge build up in fabric products used in clean rooms, assembly lines and personal protective wear.
Electromagnetic Shielding	Create a barrier to electromagnetic radiation which can come from mobile phones, microwaves or WiFi.

Specialist Magellan products are typically available across a select range of ticket sizes and technical information will in some cases vary from the above table.



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