

COATS  
protos  
ultrabloc stm



WATERBLOCKING  
ARAMID STRENGTH  
MEMBER

# Coats® Protos™ Ultrabloc STM

Coats Protos Ultrabloc STM is a water swellable, super absorbent coated aramid for use in cables as a strength member. Ultrabloc coating is proven to provide as a strength member a world class water absorption for fibre optic cable applications. Protos Ultrabloc STM can provide some of the lowest dusting and shedding in the fibre optic industry to help reduce machine downtime and improve cleanliness and safety during cable manufacture.

## WHY CHOOSE PROTOS ULTRABLOC STM?

- General purpose flexible strength member for any application needing dry water blocking in combination with cable strength
- Particularly good for dielectric (non-conducting) cable usage
- 2-3 times better water absorption than typical competitors due to our proprietary coating process which incorporates about 2-3 times more super absorbent polymer in the same thickness of coating as typical competitors.
- Available in standard modulus and high modulus.

## MAIN USES:

- For use in loose tube, central tube, or tight buffer cable
- Used in both armoured and unarmoured optical cable



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## PRODUCT RANGE

Product	Weight	Yield	Tensile Strength	Lase 0.30%	Lase 0.50%	Lase 1.00%	Young Modulus	Elongation at Break	Water absorption
	g/m	m/kg	N	N	N	N	GPa	%	%
Protos HM UBC 1500	0.180	5,555.56	275.00	35.00	60.00	120.00	110.00	2.50	1500.00
Protos HM UBC 2840	0.385	2,597.40	550.00	75.00	125.00	240.00	110.00	2.50	1500.00
Protos HM UBC 7245	1000	100.00	1400.00	195.00	325.00	630.00	110.00	2.50	1500.00

More products and different properties available upon request

Test-speed: 100mm/min - Pre-tension: 0,020 N/Tex - Mechanical properties are determined at twisted yarn

## THERMAL PROPERTIES

Threads made out of para-aramid fibres have a five times higher strength than threads made from steel, they are not melting, and are self-extinguishing

Decomposition of temperature at 425°C

## CHEMICAL PROPERTIES

Acids:	Average resistance to acids
Alkalis:	Good resistance to alkalis
Organic solvents:	Good resistance
Bleaching:	Low resistance
Sunlight:	Low resistance
Chemical:	Excellent resistance



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## PACKAGING

A variety of packaging options are available. Standard packaging is listed below. Alternative packaging available.

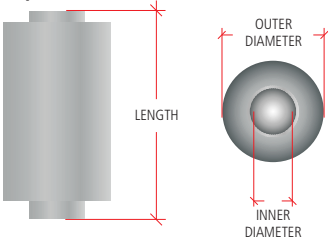
Standard Spool Specifications	Unit	Option A	Option B	Option C	Option D
Inner Diameter	mm	94	94	127	77
Length	mm	215	290	215	250

## PACKAGE OPTIONS

A variety of packaging options are available.

Typical core size is 3.7" ID x 8.5" L but many other options are available on request.

Spool Specifications



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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 2020



# Coats Protos Ultrabloc STM

## EXPERT REAL WORLD SUPPORT

The final cost of any thread 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 yarn 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 thread audits in pre-production to the latest technical bulletins, we'll provide support that achieves measurable results.

For more information, talk to your Coats representative today or visit [www.coats.com/protos-ultrabloc-stm](http://www.coats.com/protos-ultrabloc-stm)



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