

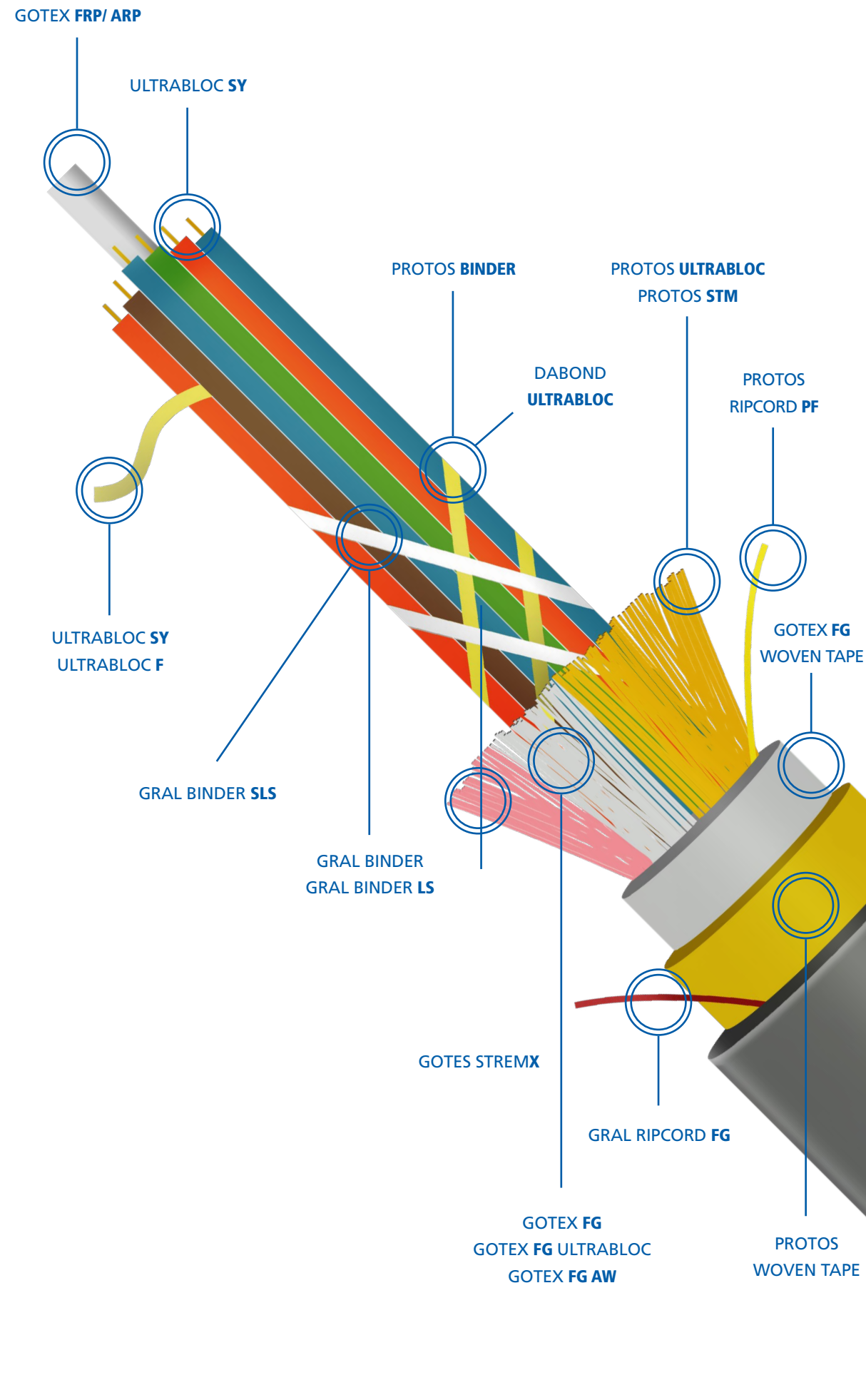
# FIBRE OPTICS



MARCH 2023

CONNECTING. PIONEERING. TRUSTED.





# ABOUT COATS

Coats is the world's leading industrial thread company. At home in some 50 countries, Coats has a workforce of 18,000 people across six continents. Our purpose is to harness talent and technology to benefit all our stakeholders, our customers and their industries, our shareholders, our people and the communities in which we operate.

Coats is the value adding partner to the global Apparel and Footwear Industry and a global expert in the design and supply of high-technology performance materials.

We've developed innovative, solution-driven products that are specifically designed for the wire and cable industry, including waterswellable and anti-wick coatings, as well as ultra low-shrink binders and rodent-deterrent materials. The specially coated ripcords can be used for both armoured and non-armoured cables.



# PRODUCTS

## CENTRAL STRENGTH MEMBERS



**GOTEX FRP**  
Round profiles made of E-glass (more than 80% in its composition) and resin that is used as a central strength element in optical fiber cable designs which offers excellent LASE values in combination with high flexibility. We also have a range of products with special coatings like water swellable finish or EAA, adhesive promoter.



**GOTEX ARP**  
Gotex ARP is a strong reinforced plastic made from aramid used to support speciality telecommunication cables which need to be very flexible, lightweight and withstand high tensile forces. It has a smooth and consistent cross-section.

## STRENGTH MEMBERS



**GOTEX FG**  
E-glass fibres which are used as flexible strength members and offer improved tensile strength with excellent surface finishing. They give strength to the cable needed during installation process and protects the cable against external hazards and the fragile optical fibre inside.



**GOTEX FGW**  
Gotex FGW is an E-glass reinforcement ideal for dry optical fibre cable designs. The specially formulated water-blocking coating combined with high precision winding ensures minimal accumulation of dust during cable production.



**GOTEX FG AW**  
Gotex FG AW is a strength member made from E-glass fibres and is primarily used as a peripheral strength element in fibre optic cables. This flat, flexible fibreglass yarn is comprised of a premium E-glass covered with a special anti-wick coating to improve the yarn properties and increase abrasion resistance in high speed process.



**PROTOS STM**  
Stronger than steel and designed to reduce the need for repairs, this 100% para-aramid fibre offers enhanced tensile strength as well as stability to any fibre optic cable.



**PROTOS ULTRABLOC**  
Water swellable coated aramid for use in telecommunication cables. Available in two different types, SM is a standard modulus that is mainly used as a water swellable binder in general telecommunication cables, and HM is a high modulus that is utilised as a water swellable strength member for ADSS cables. Both types have some of the lowest dusting and shedding in the industry that helps reduce machine downtime and improve cleanliness and safety during the cable manufacturing process.



**GOTEX STREMX**  
Gotex StremX is a new generation of high performance yarn that can be used as a strength element in fibre optic cables. This new and innovative product has a unique coating that provides the yarn with exceptional mechanical performance.







# PRODUCTS

## BINDERS



**DABOND ULTRABLOC**  
Continuous filament, high tenacity, polyester coated with an extremely smooth super absorbent water swellable finish. This is an excellent general purpose water blocking material and is appropriate for a wide variety of uses in fibre optic cables where high absorbency is needed.



**GRAL BINDER**  
Multi-filament polyester yarn that is used in designs that call for standard low shrink (2%) binders. Packages are consistent in length, can withstand high stranding speeds and are available in one end and two end put-ups.



**GRAL BINDER LS**  
Gral Binder LS is a Multi-filament polyester yarn that is ultra-low shrink (<1%), offers high tensile strength and will not indent buffer tubes which can cause a defect in the cable and disrupt the stranding operation. Packages are available in one end and two end put ups.



**GRAL BINDER SLS**  
Coats Gral Binder SLS is a high tenacity multi-filament polyester yarn with ultra-low shrink. Is specially engineered to ensure that the binder does not indent buffer tubes which can cause a defect in the cable and disrupt the stranding operation. Coats Gral Binder SLS is available in 1 end and 2 end packages.



**RIPCORDS**  
**GRAL RIPCORD PF**  
Polyester based, continuous filament yarn that is best used for fibre optic cable ripcord applications. The unique protective film (PF) coating is highly abrasion resistant, has greater cutting modulus, and is proven to help reduce ripcord size.



**PROTOS RIPCORD PF**  
Continuous filament, twisted, para-aramid yarn designed specifically for armoured cable ripcord applications. The unique protective film (PF) coating is highly abrasion resistant and proven to help reduce ripcord size.

## WATERBLOCKING YARNS



**ULTRABLOC SY**  
Water swellable, spun superabsorbent polymer yarn that is ideal for dry blocking in wire & cable products. It is proven in temperature cycling, heat ageing and freeze/ thaw testing and provides outstanding waterblocking properties.



**ULTRABLOC F**  
Flat water swellable yarn for dry blocking in fibre optic cables around central strength members. Its manufacturing process proves to have a very low dusting and shedding that helps improve cleanliness and safety during the cable manufacturing process.

## WOVEN TAPES



**GOTEX FG WOVEN TAPE**  
Woven tapes made of fibreglass which are mainly utilised in cables that are located in vulnerable environments. Manufactured to provide additional resistance, they protect against rodents and fire. Additional waterblock coating can be applied to protect the cable further from underground water or rain.



**PROTOS WOVEN TAPE**  
Tapes which are designed and woven to provide improved resistance, protecting cables against bullets (small caliber). Can also be manufactured with an additional waterblock.