

1st Class Fibre Feed!

FlexRibbon™ – more fibres than ever, in every duct.



*Designed to feed large-scale
data centres with fibre.*



FlexRibbon™ – more fibres than ever, in every duct.

Our FlexRibbon™ technology together with MassLink™ fibre ribbon cables add a completely new dimension to optical fibre deployment. The ultra-compact, yet extremely flexible and bend-insensitive design, maximises fibre density and duct space utilisation. This outstanding innovation will meet all your present as well as future cravings. Bank up!

FLEXRIBBON™

Application

As the demand for more powerful, higher-density cables continues to increase, Our FlexRibbon™ technology together with MassLink™ fibre ribbon cables will be a key asset for companies to navigate underground duct networks and support large-scale data centres worldwide. With the new technology, which combines the best attributes of loose fibre and flat ribbon, we can bundle the maximum number of fibres into the smallest possible cable by using extremely flexible fibre ribbons that can be rolled up for high-packing-densities, or laid flat for ribbon splicing. Or, in other words, high fibre-density, ultra-compact design and efficient installation methods in one flexible solution.

MAIN FEATURES

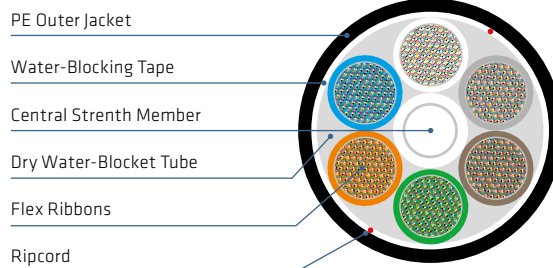
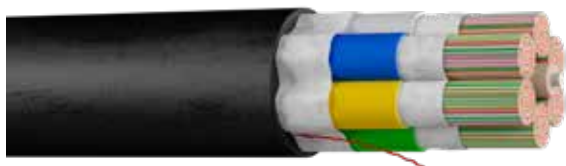
- ✓ Maximised fibre density and duct space utilisation
- ✓ Kink resistant and highly flexible
- ✓ Lightweight and easy to handle
- ✓ Designed for mass fusion splicing
- ✓ Gel-free design for faster preparation
- ✓ Perfect for large-scale data centres

A broad spectrum of choices.

Our new and innovative MassLink™ with FlexRibbon™ technology includes three ultra-compact cables comprising 1728, 3456 and 6912 bend insensitive fibres respectively. Our optical fibres reach further.



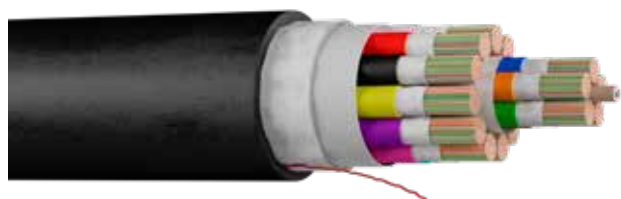
1728 MassLink™ with FlexRibbon™ Technology



1728 MassLink™ with FlexRibbon™ Technology	
Cable design parameters	
Construction type	Ultra compact ribbon design
Fibre count	1728
Fiber / Sub Unit (tube)	6 Units x 288f / Unit
Tube positions	6
No. of elements (ribbons/tube)	24
Elements colors	Customizable, standard product ANSI
Water tightness	Dry
Identification elements	Stripe ring marking for ribbons, color code for tubes and fibers
Outer jacket	PE
Outer jacket color	Black
Water blocking tape	Yes
Central strength member	Yes
Dry water-blocked tube	Yes
Duct size / % fill	1.25" / 78 %
Fibre density in cable (fibres/mm ²)	3,6 f/mm ²
Fibre characteristics	
Fibre Type	Single-mode
Fibre coating diameter	250 µm
Performance specifications	
Cable nominal diameter	24,9 mm
Cable nominal weight	379 kg/km
Tube / filler diameter	31,75 mm
Installation tension	2700 N
Operation tension	800 N
Crush resistance Short/Long Term	220/110 N/cm
Temperature range installation	-30 to +60 °C
Temperature range operation	-30 to +70 °C
Temperature range transport & storage	-40 to +70 °C
Main mechanical characteristics	
Bend radius (Dynamic)	20 x Cable OD
Bend radius (Static)	10 x Cable OD

Please check our homepage: www.prysmiangroup.com for more details.

3456 MassLink™ with FlexRibbon™ Technology



PE Outer Jacket

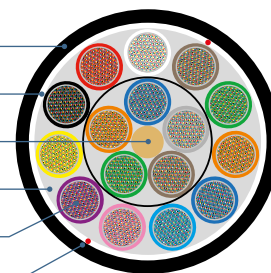
Water-Blocking Tape

Central Strength Member

Dry Water-Blocket Tube

Flex Ribbons

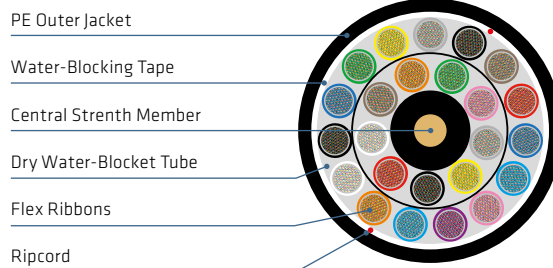
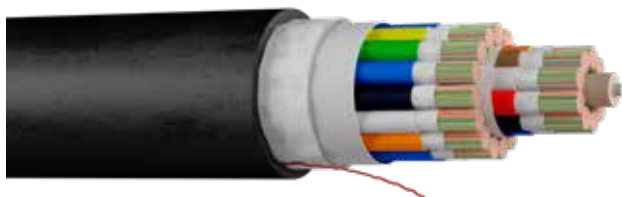
Ripcord



3456 MassLink™ with FlexRibbon™ Technology	
Cable design parameters	
Construction type	Ultra compact ribbon design
Fibre count	3456
Fiber / Sub Unit (tube)	16 Units x 216f / Unit
Tube positions	16
No. of elements (ribbons/tube)	18
Elements colors	Customizable, standard product ANSI
Water tightness	Dry
Identification elements	Stripe ring marking for ribbons, color code for tubes and fibers
Outer jacket	PE
Outer jacket color	Black
Water blocking tape	Yes
Central strength member	Yes
Dry water-blocked tube	Yes
Duct size / % fill	1.50" / 74 %
Fibre density in cable (fibres/mm ²)	
Fibre characteristics	
Fibre Type	Single-mode
Fibre coating diameter	200 µm
Performance specifications	
Cable nominal diameter	28,2 mm
Cable nominal weight	478 kg/km
Tube / filler diameter	38,1 mm
Installation tension	2700 N
Operation tension	800 N
Crush resistance Short/Long Term	220/110 N/cm
Temperature range installation	-20 to +60 °C
Temperature range operation	-20 to +70 °C
Temperature range transport & storage	-40 to +70 °C
Main mechanical characteristics	
Bend radius (Dynamic)	20 x Cable OD
Bend radius (Static)	10 x Cable OD

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6912 MassLink™ with FlexRibbon™ Technology



6912 MassLink™ with FlexRibbon™ Technology	
Cable design parameters	
Construction type	Ultra compact ribbon design
Fibre count	6912
Fiber / Sub Unit (tube)	24 Units x 288f / Unit
Tube positions	24
No. of elements (ribbons/tube)	24
Elements colors	Customizable, standard product ANSI
Water tightness	Dry
Identification elements	Stripe ring marking for ribbons, color code for tubes and fibers
Outer jacket	PE
Outer jacket color	Black
Water blocking tape	Yes
Central strength member	Yes
Dry water-blocked tube	Yes
Duct size / % fill	2" / 60 %
Fibre density in cable (fibres/mm ²)	5,5 f/mm ²
Fibre characteristics	
Fibre Type	Single-mode
Fibre coating diameter	200 µm
Performance specifications	
Cable nominal diameter	39 mm
Cable nominal weight	940 kg/km
Tube / filler diameter	50,8 mm
Installation tension	2700 N
Operation tension	800 N
Crush resistance Short/Long Term	220/110 N/cm
Temperature range installation	-20 to +60 °C
Temperature range operation	-20 to +70 °C
Temperature range transport & storage	-40 to +70 °C
Main mechanical characteristics	
Bend radius (Dynamic)	20 x Cable OD
Bend radius (Static)	10 x Cable OD

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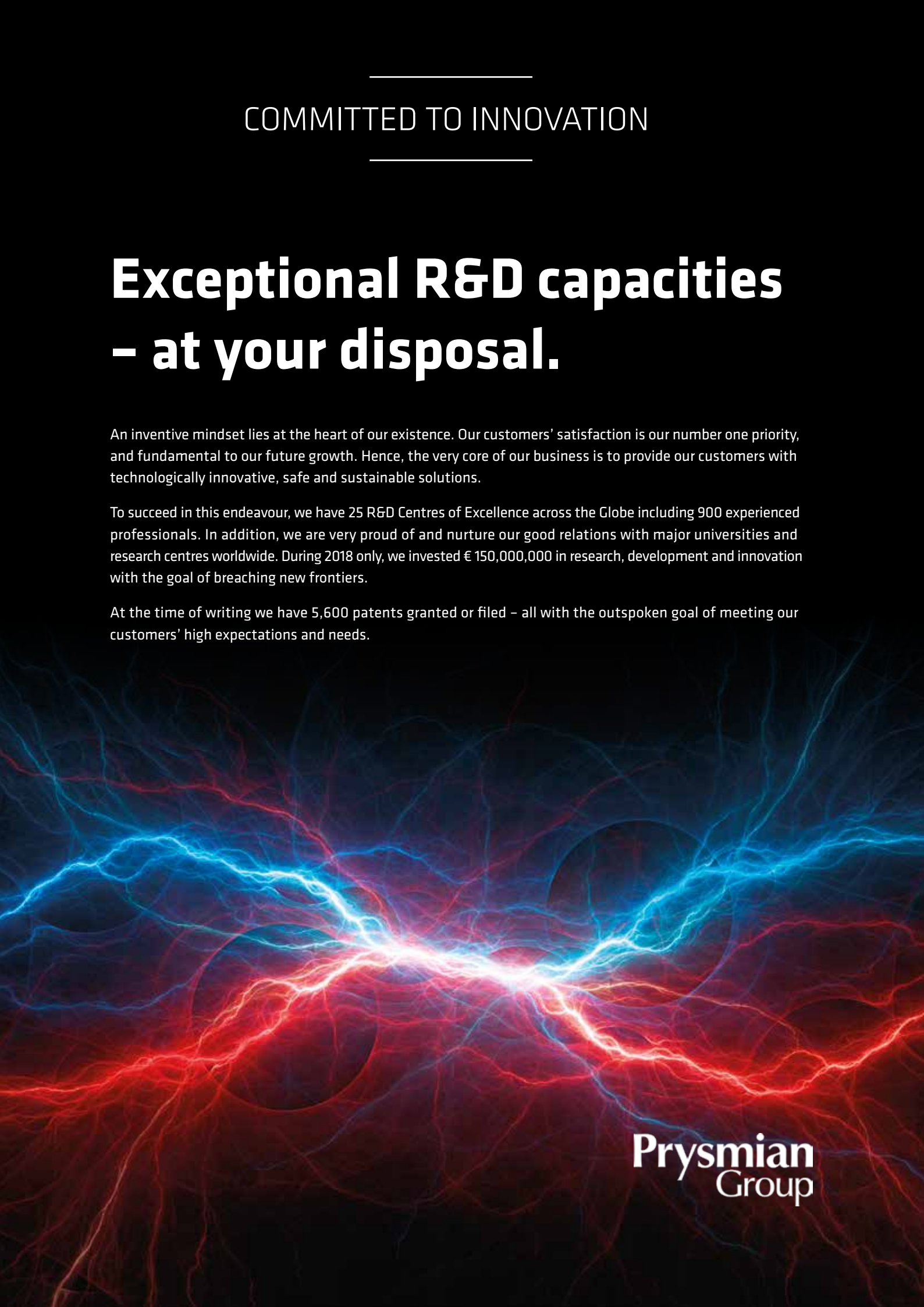
COMMITTED TO INNOVATION

Exceptional R&D capacities – at your disposal.

An inventive mindset lies at the heart of our existence. Our customers' satisfaction is our number one priority, and fundamental to our future growth. Hence, the very core of our business is to provide our customers with technologically innovative, safe and sustainable solutions.

To succeed in this endeavour, we have 25 R&D Centres of Excellence across the Globe including 900 experienced professionals. In addition, we are very proud of and nurture our good relations with major universities and research centres worldwide. During 2018 only, we invested € 150,000,000 in research, development and innovation with the goal of breaching new frontiers.

At the time of writing we have 5,600 patents granted or filed – all with the outspoken goal of meeting our customers' high expectations and needs.



Prysmian
Group

Linking the future

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