PRYSMIAN

Aim High

With our new FlexRibbon™ Range

AUSTRALIAN MADE

A brand of the Prysmian Group

Cable just got more flexible with Prysmian FlexRibbon™ technology.

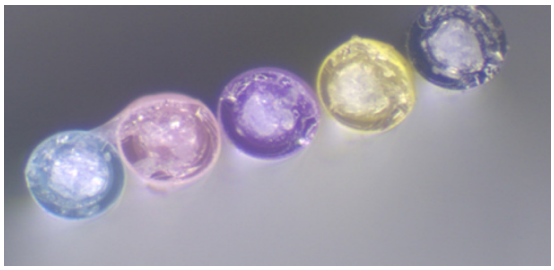
Prysmian's MassLink™ range presents the next stage in ribbon fibre optic cable development. By using an advanced FlexRibbon™ technology, Prysmian provides an ultra-compact, lightweight outside plant cables that contains up to 6912 bend insensitive fibres, with an overall diameter small enough to fit into a 50 mm duct.

FlexRibbon™ in MassLink™ cable combines the benefits of ribbon mass fusion splicing with smaller diameters offered by stranded fibre cables. This brings together the best of both worlds.

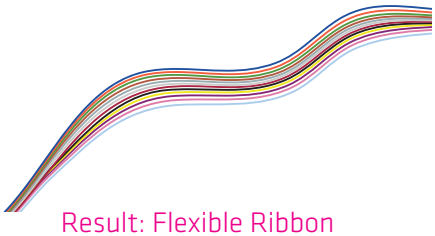
FlexRibbon™ Technology

FlexRibbon™ technology is an advanced Prysmian manufacturing process of applying a ZigZag bonding pattern between fibres to form the ribbons. The special ribbon matrix application provides high bond strength between the fibres whilst enabling full degree of flexibility.

ZigZag Pattern

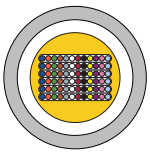


Matrix Bonding between Fibres

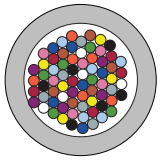


Result: Flexible Ribbon

Unlike conventional flat ribbon, FlexRibbon™ can be rolled when formed into the loose tubes. By rolling the ribbons into a bundle, this allows smaller loose tubes to be made which reduces the overall cable diameter.

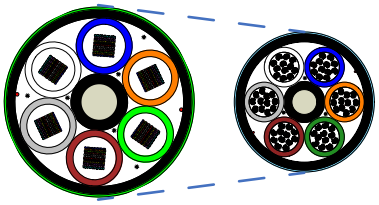


Flat Ribbon Tube



FlexRibbon Tube

The result is an extremely fibre dense cable design that maximises duct utilisation and cable termination efficiency.



Flexible ribbons bring advantages of both stranded fibre elements and conventional flat ribbon by allowing 3-dimensional bending of the ribbon and supporting mass fusion splicing

Applications

- Interconnection of Datacentres and Exchanges
- High capacity Metro Trunk Links
- Within Datacentres

Features and Benefits

Compact Design

- High fibre-density enables more fibre per duct.

Fibre Count	Conventional Ribbon O.D(mm)	FlexRibbon O.D(mm)	Cross section reduction (%)
72	12.5*	11.8*	10.9%
144	14.2*	12.7*	20.0%
288	17.7	13.7*	40.1%
432	21.9	19.1	23.9%
576	21.9	19.1	23.9%
864	26.8	22.6	28.9%
1728	-	25.5	-

* Central Tube Design

CAPEX Saving

- Smaller cables reduce civil cost.
- Lighter cable reduces transport cost and enhances hauling speed.
- Mass fusion splicing reduces splice time.
- Completely dry, gel free cable cuts down cable preparation time.

Flexible Ribbon Matrix

- Compatible with conventional ribbon splicing equipment.
- Backward compatible with standard rigid ribbon, individual fibre and other flexible ribbon splicing.
- Extremely flexible ribbons can be laid flat for ribbon splicing which saves time and splicing cost.

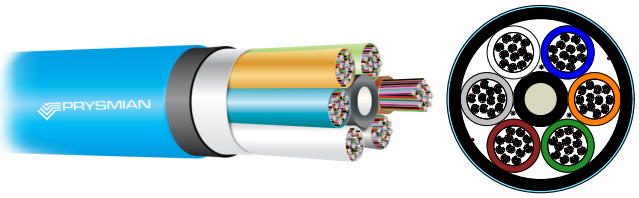
Better Handling

- No preferential bend of the ribbons enables the splice tray to be reduced by up to 40%
- The ease of handling can reduce the installation time on the splice tray by 80%

Flat Ribbon

FlexRibbon

Cable Construction



Advantages

Central Strength Member (above 288F)

- Cable can bend in any direction.
- Smaller figure 8 layup reduces access space requirement during installation.
- All dielectric design doesn't require any grounding or bonding.
- Suitable for conventional cable anchoring.

Loose Tube Design

- Robust protection for fibre ribbons.
- Easy routing into joints, splice trays and racks.
- Minimum requirement for over sleeving which reduces cable preparation time.

Outer Bonded Nylon Jacket

- Superior protection against termite attack.
- Reduces friction for better hauling.

Completely Dry Water-Blocking Technology

- Gel-free loose tubes enable rapid cable preparation and termination.
- Water-blocking materials are easily removed.

Full range

- Available in fibre counts from 72 to 6912.
- Local Australian production up to 1728.

Linking the future

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