

# CABLE



## About Us

Prysmian is a global market leader in optical cables, supplying a major part of the world's optical cable needs. With a strong heritage of highly advanced R&D, Prysmian is at the leading edge of the technology.

Prysmian has a worldwide telecom manufacturing presence in 12 countries and 4 continents. This global expertise and local manufacturing capacity make Prysmian a significant force in the international marketplace, assuring continuity of supply and high levels of service.

Prysmian's optical technology encompasses optical fibres, cables, connectivity, projects and services ensuring that not only the right cable but the right total optical communication system is matched to our customers' needs.

Prysmian offers a complete service from design, development and manufacture through to technical support of commissioned cable networks. Planning and logistics are the cornerstone of our operation, with quality maintained through the expertise and dedication of all our staff working across the business to ISO 9001 and 14000 standards.

When a project is in Prysmian's hands, our customers can depend on a total quality service.

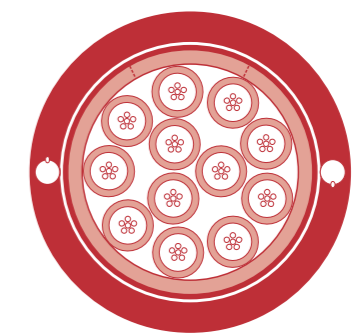
## Rapier® Easy Break-Out Cables



- > High capacity - up to 432f
- > High fibre density
- > Rapid installation (small/lightweight)
- > Easy break-out of bundles & tubes
- > Clear identification of every fibre



Recommended for **FTTx**



Specifications are subject to change without notice. Cable are designed and tested according to the main national and international specifications (IEC specifications).

dega design group

2008

2008

**Prysmian Cables and Systems**

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[www.prysmian.com](http://www.prysmian.com)



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## Rapier® Easy Break-Out Cables



For applications requiring anything from 48 to 432-fibres, the Rapier® portfolio provides a fast and efficient means of building an access network.

Rapier® cables contain a number of 12-fibre bundles in unique colours, each bundle having an easy-peel coating. Lower fibre count designs use a central tube structure with the inner tube protecting the bundles when ring-cutting the outer layer.

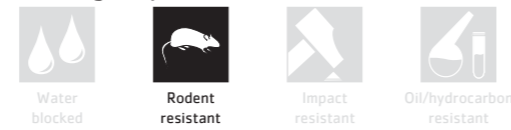
The inner tube has a Prysmian patented break-out window for easy access to the bundles.

In higher fibre count designs, a number of bundles are contained in stranded tubes, each with its own break-out window.

The most significant cost savings are made in break-out times (as the cables do not contain gel) particularly for mid-span access, leaving the bundles intact in the joint (as bare fibres or in bundles as preferred). Up to two-thirds of cable preparation time can be saved by making use of the Prysmian Rapier® solution.

Prysmian are able to supply the cable, the fibre management solutions required and the service or the resource to complete the introduction of Rapier® cables in your network.

### Full range of protections



### Full range of applications



### Further protections available



Low fibre count designs for duct and direct buried (with steel-plastic-laminate) in single tube with 4 to 12 bundles of 12-fibres.

### DESIGN PARAMETERS

	DUCT	BURIED
Fibrecount	48 - 144	48 - 144
Nominal outer diameter	mm 13.2	18.2
Cable weight	kg/km 120	280

### PERFORMANCE SPECIFICATIONS

	Op.	Inst.	Op.	Inst.
Tensile strength	N -	1100	-	1100
Min. bend radius	mm 190	260	270	360
Crush	N -	2000	-	5000
Temperatures Operation	°C -20/+60			
Temperatures Installation	°C -10/+40			
Temperatures Storage	°C -40/+70			

High fibre count designs for duct application contain six tubes each containing 4 to 6 bundles of 12-fibres.

### DESIGN PARAMETERS

	DUCT	DUCT
Fibrecount	288	432
Nominal outer diameter	mm 18.0	22.0
Cable weight	kg/km 210	300

### PERFORMANCE SPECIFICATIONS

	Op.	Inst.	Op.	Inst.
Tensile strength	N -	3300	-	4500
Min. bend radius	mm 270	360	330	440
Crush	N -	1500	-	2000
Temperatures Operation	°C -20/+70			
Temperatures Installation	°C -10/+40			
Temperatures Storage	°C -40/+70			

Rapier® Easy Break-Out Cables

Any questions? Our team of experienced technical staff is ready to talk to you. See contact details.