# Sirocco<sup>HD™</sup> Low Loss

Jetted Microduct Loose Tube Cable





Water Blocking Elements	
Jacket (optimized for Jetting)	
Central Strength Member	
Buffer Tube Containing 12 or 24 Fibers	
Ripcord	

### **OVERVIEW**

Prysmian's Sirocco<sup>HD</sup> cables provide optimized jetting performance for underground microduct installations or jetting directly over existing cable. Prysmian offers solutions for microducts ranging from 8 mm to 14 mm, or larger, inside diameters. These small diameter cables combine high reliability with reduced size and weight for optimum blowing performance.

Prysmian's Sirocco<sup>HD</sup> cables leverage the capabilities of our industry-leading, 200 $\mu$ m Bend-Insensitive Fiber to provide some of the highest fiber densities available.

With this approach, network operators can maximize duct utilization, defer capital expenditures to match revenue streams, maintain flexibility for future growth, and reduce installation and upgrade costs.

### SPECIFICATIONS / RATINGS

- Applications Jetted microduct deployment, installed in microducts or partially filled duct
- **Constructions** Stranded dielectric loose tube/specialized jacket and construction
- Fiber Count 288, 432 or 864 fibers in color-coded buffer tubes

Fiber Types BBXS200™ G.657.A2 fiber with Low Loss specifications Options Tonewire

Standards ANSI / ICEA 744, IEC 60794, RUS, GR-20

Registered ISO 9001, ISO 14001, TL 9000, and OHSAS 18001 Supplier



### FEATURES AND BENEFITS

#### **Optimal Jetting Performance**

- · Reduced size and weight for installation in microduct
- Up to 65% reduction in cross-section vs. conventional
- Demonstrated results of more than 1-1/4 miles (single) and 6 miles (cascaded)
- Simple and standard loose tube entry via ripcords, swellable binders, and flexible buffer tubes

#### Industry-Leading Fiber Density

- Up to 432 fibers in a single, 10mm ID duct
- Up to 864 fibers in a single, 14mm ID duct
- · Smaller ducts, vaults and equipment
- · Reduced carbon footprint

#### **Reduced Total Installed Cost**

- Reduce total Installed Cost
- · Defer CAPEX by maximizing duct utilization
- · Reduce installation and upgrade costs
- · Minimize disruption to underground infrastructure
- Quick installation long lengths and high speeds
- · Allow use of ducts already containing cable
- Microduct options available with mid-span express buffer tube storage capabilities shown in the below table



Prysmian 4 Tesseneer Drive, Highland Heights, KY 41076 na.prysmian.com TLS-DS-A-403-0924



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A 432-count Sirocco<sup>HD</sup> cable has a diameter similar to a pencil and will fit a 10mm ID microduct.

Minimum	Ainimum Dielectric R		Recommended	Tone Wire Option	# Fibers	Tube Size	SMF Max	Diameter		Approx. Cable Weight		Min. Bend	Min. Bend	Tensile Load Maximum /
ID (mm)	Count	Count	All-Dielectric Part Number*	# Fibers (Gauge)	Tube	(mm)	Storage (ft)	Inches	mm	lb/kft	kg/km	OD (Load)	OD (No Load)	Operating (Ibf)
Sirocco <sup>HD</sup> Low Loss (200µm fiber)														
10	288	24x12	MDH1JKT-12-2X-288-ZA		12	1.1		0.31	7.9	36	53	20x	15x	112/34
10	288	12x24	MDH1JKT-24-2X-288-ZA	20	24	1.4		0.31	8	42	57	20x	15x	112/34
10	432	18x24	MDH1JKT-24-2X-432-ZA		24	1.4		0.31	8	40	60	20x	15x	112/34
14	864	24x36	MDH1JKT-36-2X-864-ZA		36	1.7	16	0.43	11.0	72	107	20x	15x	112/34

Part	Dielectric	Temperature Range				Tube Size	Mid-Span Access	Maximum Reel Length	
Family	Count	Operating °F (°C)	Installation °F (°C)	Compression	Impact	(mm)	ΤοοΙ	Feet	Meters
Sirocco <sup>HD</sup> Low Loss (200µm fiber)									
MDH1JKT-12-2X-288-ZA	288	-22 to +158 (-30 to +70)	+14 to +122 (-10 to +50)	1000N/100mm	2J, R=300mm	1.1		26,240	8,000
MDH1JKT-24-2X-288-ZA	288	-22 to +158 (-30 to +70)	+14 to +122 (-10 to +50)	1000N/100mm	2J, R=300mm	1.4		26,240	8,000
MDH1JKT-24-2X-432-ZA	432	-22 to +158 (-30 to +70)	+14 to +122 (-10 to +50)	1000N/100mm	2J, R=300mm	1.4		26,240	8,000
MDH1JKT-36-2X-864-ZA	864	-22 to +158 (-30 to +70)	+14 to +122 (-10 to +50)	1000N/100mm	2J, R=300mm	1.7		26,240	8,000

 $^{\ast}$  Where 2X equals glass type and ZA equals attenuation



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## **Ordering Guide**

The Prysmian part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

Example: Sirc	occo <sup>HD</sup> microduc					
1 LENGTH MARKINGS	2 PRODUCT FAMILY	<b>3</b> CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	<b>7</b> FIBER GRADE
F -	MDK	IJКТ	- 24	– 2X –	432 –	ZA

PART NUMBER CONSTRUCTION	FIBER INFORMATION					
1 LENGTH MARKINGS	5 FIBER TYPE					
F = Feet or M = Meters	SINGLE-MODE					
2 PRODUCT FAMILY	2X = Draka BendBrightXS 200um Single-Mode (ITU G.657.A2 & G652.D)					
MDH = Sirocco <sup>HD</sup> with 12, 24 or 36f/tube (varies by count)	6 FIBER COUNT					
3 CONSTRUCTION	288, 432 or 864 fibers					
IJKT = Single Jacket	7 FIBER GRADE					
4 FIBER GROUPING	SINGLE-MODE Attenuation (dB/km) Wavelength (nm) Fiber Type					
12 = 12f per tube	ZA <= 0.35/0.35/0.21 (Max) Twiste 0.37/0.37 (0.20) 1310/1383/1550 All types					
24 = 24f per tube	Iypical: 0.33/0.33/0.19					
36 = 36f per tube	Other cable constructions and fiber performance grades available on request.					

