

# Sirocco

## Outdoor microduct optical fibre cable



### CABLE APPLICATION

These outdoor Sirocco microduct optical fibre cables are optimized for installation by blowing into microducts and protected microducts. Please refer to our General Installation, Safety & Handling recommendations before handling.

### CABLE DESIGN

- Optical Fibre: 12 Fibres per Tube - 250µm single-mode.
- Optical Fibre: 24 Fibres per Tube - 200µm single-mode.
- Central Strength Member (CSM): glass fibres reinforced plastic rod (GRP) with or without over-sheath.
- Tubes: thermoplastic material containing 12 or 24 optical fibres and filled with a suitable water tightness compound.
- Stranding: loose tubes, SZ stranded around the CSM.
- Longitudinal Water Tightness: water swellable materials (dry core).
- Outer Sheath: UV resistant HDPE, 2 ripcords beneath.

### TECHNICAL DATA

Number of fibres	Number of fibres per tube	Nominal outer diameter [mm]	Tube diameter [mm]	Cable weight [kg/km]	MIT (Maximum Installation Tension) [N]
12	12	5.1	1.35	25	250
24	12	5.1	1.35	25	250
48	12	5.1	1.35	25	250
72	12	5.1	1.35	25	250
96	12	6	1.35	35	350
144	24	5.8	1.65	30	300
144	12	7.7	1.35	57	570
192	24	6.8	1.65	40	400
288	24	9.1	1.65	70	700

## MAIN CHARACTERISTICS

Test	Standard	No. of Fibres per Tube	No. of Fibres	Specific Value	Acceptance Criteria
Tensile Performance	IEC 60794-1-21-E1	12 and 24	12 up to 288	1 x W	$\Delta a \leq 0.05$ dB, $\Delta l/l \leq 0.60\%$
Crush	IEC 60794-1-21-E3	12	12 up to 144	500 N / 100 mm, 1 min	$\Delta a \leq 0.05$ dB
Crush	IEC 60794-1-21-E3	24	144,192,288	1000 N / 100 mm, 1 min	$\Delta a \leq 0.05$ dB
Impact	IEC 60794-1-21-E4	12 and 24	12 up to 288	1 J, 3 impacts, R = 300 mm	$\Delta a \leq 0.05$ dB
Repeated Bending	IEC 60794-1-21-E6	12 and 24	12 up to 288	R = 50 x CSM $\varnothing$ , 25 cycles	Cable integrity
Torsion	IEC 60794-1-21-E7	12 and 24	12 up to 288	$\pm 360^\circ$ , 2 m	Cable integrity $\Delta a \leq 0.05$ dB
Kink	IEC 60794-1-21-E10	12 and 24	12 up to 288	R = 50 x CSM $\varnothing$	Cable integrity
Bend	IEC 60794-1-21-E11	12 and 24	12 up to 288	R = 50 x CSM $\varnothing$ , 4 turns, 3 cycles	$\Delta a \leq 0.05$ dB
Temperature Cycling	IEC 60794-1-22-F1	12	12 up to 144	-20 °C to + 60 °C	$\Delta a \leq 0.05$ dB/km
Temperature Cycling	IEC 60794-1-22-F1	24	144,192,288	-20 °C to + 60 °C	$\Delta a \leq 0.05$ dB/km
Temperature Cycling	IEC 60794-1-22-F1	24	144,192,288	-30 °C to + 70 °C	$\Delta a \leq 0.15$ dB/km
Water Penetration	IEC 60794-1-22-F5B	12 and 24	12 up to 288	3 m sample, 1m water, 24h	$\Delta a \leq 0.05$ dB/km
Ageing	IEC 60794-1-22-F9	12 and 24	12 up to 288	168 hours, +85 °C	$\Delta a \leq 0.25$ dB/km, 0.10 dB/km average

## OPTICAL CHARACTERISTICS

Contact us for fibre datasheet

## FIBRE COLOURS

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	blue	orange	green	red	grey	yellow	brown	violet	black	white	pink	turquoise
No.	13	14	15	16	17	18	19	20	21	22	23	24
Color	orange	green	red	white	yellow	pink	orange	green	red	white	yellow	pink
	I	I	I	I	I	I	II	II	II	II	II	II

(1) Other colour set available upon agreement.

## TUBE COLOURS

No.	Pilot	Intermediate	Marker
Color	red	white	green

(2) Other colour set available upon agreement. or reproduce in any form the content, either wholly or in part, of this document without written consent of Prysmian. All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian. Any modification or alteration of products may cause different results. Prysmian reserves the right to amend the information within this document at any time without notice. For the most up to date information, please contact us. You agree that, in placing any order, you have not relied on the information set out in this document. Prysmian disclaims any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product to the maximum extent permissible by law.

## SHEATH COLOUR

The outer sheath colour is black. Other colours are available on on agreement.

## SHEATH MARKING

The outer sheath is marked in 1-meter intervals as follows:

{length marking in meters} M \*phonesymbol\* {no. of fibres}F {fibre type} PRYSMIAN PGH {year of manufacture}

## LOGISTIC

Packaging	Delivery Lengths
Plywood or plastic reels or wooden drums with protection	Standard delivery length is 2 km
	Maximum delivery length is 6 km

(3) Other delivery lengths available upon agreement.