

Sirocco HD

Outdoor microduct optical fibre cable with 200µm fibres



CABLE APPLICATION

These outdoor Sirocco HD 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 Fibres: 200 um single-mode
- 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]
144	24	5	1.4	23	230
192	24	5.7	1.4	30	300
288	24	7.5	1.4	54	540
432	24	8.5	1.4	65	650

MAIN CHARACTERISTICS

Test	Standard	No. of Fibres	Specific Value	Acceptance Criteria
Tensile Performance	IEC 60794-1-21-E1	96 up to 552	1 x W	$\Delta a \leq 0.05$ dB, $\Delta l/l \leq 0.60\%$
Crush	IEC 60794-1-21-E3	96 up to 552	500 N / 100 mm, 1 min	$\Delta a \leq 0.05$ dB
Impact	IEC 60794-1-21-E4	96 up to 552	1 J, 3 impacts, R = 300 mm	$\Delta a \leq 0.05$ dB
Repeated Bending	IEC 60794-1-21-E6	12F: 96,144. 24F: 144, 192, 288	R = 50 x CSM \emptyset , 25 cycles	Cable integrity
Repeated Bending	IEC 60794-1-21-E6	12F: 288	R = 14 x OD, 25 cycles	Cable integrity
Repeated Bending	IEC 60794-1-21-E6	12F: 432	R = 16 x OD, 25 cycles	Cable integrity
Repeated Bending	IEC 60794-1-21-E6	24F: 432, 552	R = 15 x Cable \emptyset , 25 cycles	Cable integrity
Torsion	IEC 60794-1-21-E7	96 up to 552	$\pm 360^\circ$, 2 m	$\Delta a \leq 0.05$ dB
Kink	IEC 60794-1-21-E10	12F: 96,144. 24F: 144, 192, 288	R = 50 x CSM \emptyset	Cable integrity
Kink	IEC 60794-1-21-E10	12F: 288	R = 14 x OD	Cable integrity
Kink	IEC 60794-1-21-E10	12F: 432	R = 16 x OD	Cable integrity
Kink	IEC 60794-1-21-E10	24F: 432, 552	R = 15 x Cable	Cable integrity
Bend	IEC 60794-1-21-E11	12F: 96,144. 24F: 144, 192, 288	R = 50 x CSM \emptyset , 4 turns, 3 cycles	$\Delta a \leq 0.05$ dB
Bend	IEC 60794-1-21-E11	12F: 288	R = 14 x OD, 4 turns, 3 cycles	$\Delta a \leq 0.05$ dB
Bend	IEC 60794-1-21-E11	12F: 432	R = 16 x OD, 4 turns, 3 cycles	$\Delta a \leq 0.05$ dB
Bend	IEC 60794-1-21-E11	24F: 432, 552	R = 15 x Cable \emptyset , 4 turns, 3 cycles	$\Delta a \leq 0.05$ dB
Temperature Cycling	IEC 60794-1-22-F1	12F: 96,144, 288, 432. 24F: 144, 192, 288	-20 °C to + 60 °C -30 °C to + 60 °C	$\Delta a \leq 0.05$ dB/km $\Delta a \leq 0.15$ dB/km
Temperature Cycling	IEC 60794-1-22-F1	24F: 432, 552	-10 °C to + 40 °C -20 °C to + 60 °C	$\Delta a \leq 0.05$ dB/km $\Delta a \leq 0.15$ dB/km
Water Penetration	IEC 60794-1-22-F5B	96 up to 552	3 m sample, 1m water, 24h	$\Delta a \leq 0.05$ dB/km
Ageing	IEC 60794-1-22-F9	96 up to 552	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

(1) Other colour set available upon agreement.

TUBE COLOURS

No.	Pilot	Intermediate	Marker
Color	red	white	green

(2) Other colour set available upon agreement.

SHEATH COLOUR

The outer sheath colour is black.

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
Wooden Drums with Protection	Standard delivery length is 2 km
	For fibre count 432-552 maximum length is 4 km
	For fibre count 96-288 maximum length is 6 km

(3) Other delivery lengths available upon agreement.