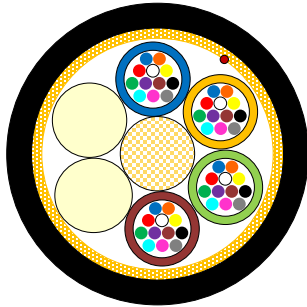


Outdoor microduct optical fiber cable

TV06932



-48f, not to scale-

Cable Design

According to IEC/EN 60794-5-10

- **Central Strength Member (CSM):** glass fibers reinforced plastic rod (GRP).
- **Tubes:** thermoplastic material containing 12 optical fibers and filled with a suitable water tightness compound.
- **Filler Elements:** thermoplastic rods, when needed.
- **Stranding:** loose tubes, SZ stranded around the CSM.
- **Longitudinal Water Tightness:** water swellable materials (dry core).
- **Outer Sheath:** UV resistant HDPE, 1 red ripcord beneath.

Cable Application

These outdoor Sirocco microduct optical fiber cables are optimized for installation by blowing into microducts and protected microducts. Please contact your sales representative for ordering guides or installation information.

Technical Data

No. of Fibers		24	48
Fiber Type	-	G.657.A1	G.657.A1
Design	-	2 x 12	4 x 12
Tube Diameter – Ø	in (mm)	0.061 (1.55)	
CSM – Ø	in (mm)	0.063 (1.6)	
Sheath Thickness	in (mm)	0.020 (0.5)	
Cable Diameter – Ø	in (mm)	0.224 (5.7)	
Cable Weight	lb / kft	20.2	
Minimum Bending Radius	in	Under Maximum Tension: 20 x Cable Ø	Without Tension: 15 x Cable Ø
Temperature Range	°F	Transport & Storage: -40 → +158	Installation: +14 → +122 Operation: -22 → +140
	°C	Transport & Storage: -40 → +70	Installation: -10 → +50 Operation: -30 → +60

Main Characteristics

Test	Standard	Specified Value	Acceptance Criteria ⁽²⁾
Maximum Cabled Attenuation	IEC/EN 60793-1-40	0.35/0.35/0.25 dB/km at 1310/1383/1550 nm	0.35/0.35/0.25 dB/km at 1310/1383/1550 nm
Tensile Performance	IEC 60794-1-21-E1	112 lbf	$\Delta I/I$ fiber \leq 0.5 %, $\Delta\alpha$ reversible
Crush	IEC 60794-1-21-E3	112 lbf / 4 in, 5 min	$\Delta\alpha \leq$ 0.10 dB under test, no damage
Impact	IEC 60794-1-21-E4	1 J, 3 impacts, R = 12 in	$\Delta\alpha \leq$ 0.10 dB after the test, no damage
Repeated Bending	IEC 60794-1-21-E6	R = 40 x OD, 2 s, 25 cycles	$\Delta\alpha \leq$ 0.10 dB no damage
Torsion	IEC 60794-1-21-E7	$\pm 180^\circ$, 6 ft, 5 cycles, 10 lbf	$\Delta\alpha \leq$ 0.10 dB after the test, no damage
Bend	IEC 60794-1-21-E11	R = 20 x OD, 5 turns, 3 cycles	$\Delta\alpha \leq$ 0.10 dB after the test, no damage
Temperature Cycling	IEC 60794-1-22-F1	-22 °F to +140 °F	$\Delta\alpha \leq$ 0.1 dB/km
Water Penetration	IEC 60794-1-22-F5B	3 m sample, 1 m water, 24 h	no water penetration

(1) values for single-mode fibers, all optical measurements performed at 1550 nm.

Optical Characteristics

See the attached BendBright™ A1 cabled optical fiber data sheet.

Identification

Fiber Colours:

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	blue	orange	green	brown	slate	white	red	black	yellow	violet	rose	aqua

Tube Colours for 24f:

No.	1	2	3	4	5	6
Colour	blue	orange	filler	filler	filler	filler

Tube Colours for 48f:

No.	1	2	3	4	5	6
Colour	blue	orange	green	brown	filler	filler

Sheath Colour:

The outer sheath colour is black.

Sheath Marking:

The outer sheath is marked in 2 foot intervals as follows:

<foot marking>  PRYSMIAN SA SIROCCO OPTICAL CABLE <number of fibers>F BB-A1
<month/year> <cable ID> MADE IN ROMANIA

Logistic

Packing:	Wooden drums with protection.
Standard Delivery Length ⁽²⁾ :	12000 ± 600 ft.

(2) Other delivery lengths available upon agreement.

All optical measurements in accordance with ITU-T G650 recommendations

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