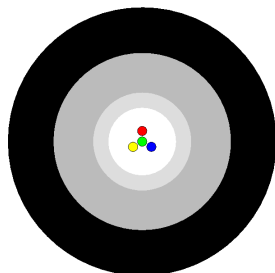


Optical fiber cables for outdoor installation

Cable Design

Acc. to IEC 60794-3-10

Loose Tube Fiber Optic Cable - Dry Core - Single Sheath



- Figure : 4 fibers cable (not to scale) -

- **Loose Tube:** thermoplastic material, containing up to 12 fibers and filled with a suitable water tightness compound.
- **Longitudinal Water Tightness:** dry core with water swellable elements
- **Dielectric Reinforcement:** fiberglass yarns
- **Outer Sheath:** PE

Configuration

No. of Fibers		1 - 12
Loose Tube - Ø	mm	2.0
Cable Diameter	mm	3.7
Cable Weight	kg / km	14

Application

Temperature Range	Transportation & Storage: - 20 to + 60°C	Minimum Bending Radius	
	Installation: -10 to + 50°C		Under Maximum Tension: 20 x Cable-Ø
	Operation: - 20 to + 60°C		Without Tension: 30 mm

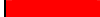








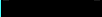


Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Max. Installation Tension	IEC 60794-1-2-E1	200 N	$\Delta\alpha$ reversible
Max. Operation Tensión	IEC 60794-1-2-E1	100 N	$\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-2-E3	800 N / 100 mm	$\Delta\alpha$ reversible, no damage
Temperature Cycling	IEC 60794-1-2-F1	-20°C to + 60°C	$\Delta\alpha \leq 0.1$ dB/km
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water column=1m	no water leakage in 24h

All optical measurements at 1550 nm.

Identification and Packing

Fiber Colors

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	red	green	blue	yellow	natural	grey	brown	violet	aqua	black	orange	pink
												

Tube Colors:

Central tube colour is natural.

Sheath Color:

The outer sheath color is black.

Sheath Marking:

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

TOSM 03	1x<number of fibers>	G 657A	DRAKA	<year of manufacture>
	<cable ID>	<length marking in meter>	~	

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery lengths are 2 km, 4 km, 6 km with a tolerance of - 1% / + 3%