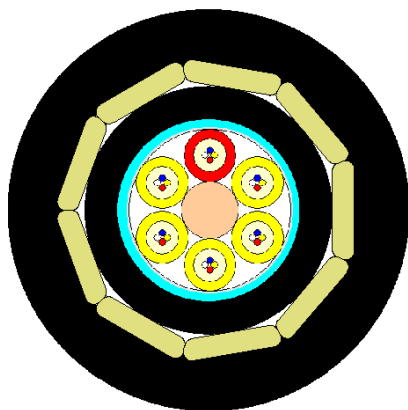


A-DQ(L)2YBp2YV

Cable Design

Acc. to IEC 60794-3-10

Loose Tube Fiber Optic Cable - Dry Core - Moisture Barrier - Armored - Double Sheath


- not to scale -

- **Central Strength Member (CSM):** glass fiber reinforced plastic rod (FRP), with plastic oversheathing when needed.
- **Loose Tube:** thermoplastic material, containing up to 4 fibers and filled with a suitable water tightness compound.
- **Filler Elements:** thermoplastic rods, where needed.
- **Stranding:** loose tubes (and fillers), SZ stranded around the CSM.
- **Longitudinal Water Tightness:** dry core with water swellable elements.
- **Moisture barrier :** one side copolymer coated aluminium tape with overlap. Aluminium thickness: 0.15 mm. 2 ripcords beneath the tape.
- **Inner Sheath:** PE, 2 ripcords beneath.
- **Peripheral strength elements and armor:** flat FRP rods.
- **Outer Sheath:** HDPE, 2 ripcords beneath.

Configuration

No. of Fibers		24
Design		6 x 4
Loose Tube / Filler - Ø	mm	2.0
CSM - Ø	mm	2.1
Inner Sheath Thickness	mm	1.0
Outer Sheath Thickness	mm	2.0
Cable Diameter	mm	14.4
Cable Weight	kg / km	190

Application

Temperature Range	Transportation & Storage: - 25 to + 70°C	Minimum Bending Radius	
	Installation: - 5 to + 50°C		Under Maximum Tension: 20 x Cable-Ø
	Operation: - 25 to + 60°C		Without Tension: 15 x Cable-Ø

Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Max. Working Tension	IEC 60794-1-2-E1	1800 N	$\Delta\alpha \leq 0.05$ dB/100m
Crush	IEC 60794-1-2-E3	2500 N / 100 mm, 1 min.	$\Delta\alpha \leq 0.05$ dB
Impact	IEC 60794-1-2-E4	10 J, 5 impacts, 500 mm	No damage
Cable Bend	IEC 60794-1-2-E11	R=20x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB
Temperature Cycling	IEC 60794-1-2-F1	-25°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
Color	red	green	blue	yellow

Buffer Tube Colors

Tube	1	2	3	4	5	6
Color	red	yellow	yellow	yellow	yellow	yellow

Filler Elements Colors:

All filler elements are uncolored (natural).

Sheath Color:

The inner and outer sheath color is black.

Sheath Marking:

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

<handset symbol>	<double wave symbol>	E	DRAKA	<length marking in meters>
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Packing:

Wooden drums with protection.

Delivery Lengths:

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