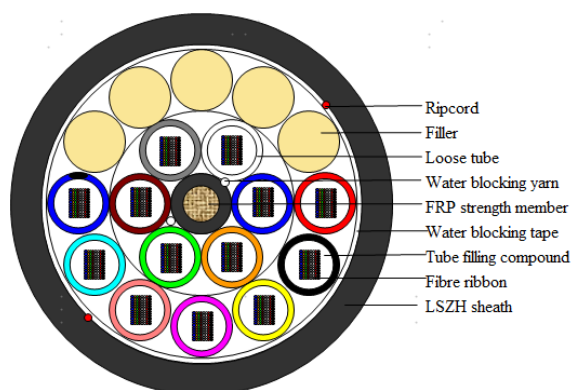


1248 Core Ribbon Fiber Fibre Optic Cable, Semi-Dry Design, High Fiber Count, LSOH-UV Resistance Jacket

Cable Design

IEC/EN 60794-3-10



- not to scale -

- **Central strength member (CSM):** FRP with plastic coating when needed.
- **Tube:** thermoplastic material, containing up 96core (12F Ribbon*8) optical fibres and filled with a suitable water tightness compound.
- **Stranding:** The required numbers of elements (tubes or fillers) are SZ stranded around the central strength member.
- **Longitudinal Water Tightness:** Water Blocking Tape & Yarn.
- **Ripcord:** Red Colour
- **Outer Sheaths:** Black LSOH
- **Suitable for telecom backbone network.**

Technical data

No. of Fibres		1248		
Design (Elements × Fibres per Tube)		13*96F (12F Ribbon*8 per tube)		
Loose Tube / Filler - Ø	mm	6.2		
CSM/sheath diameter Nom.	mm	2.0 (6.4 after PE layer)		
Water Blocking Element	mm	Water blocking yarn & Water blocking Tape		
Outer sheath thickness Nom.	mm	2.0 nominal		
Ripcord Qty	mm	2		
Cable diameter Nom.	mm	35.6		
Cable Weight	kg / km	900		
Min. bending radius	mm	Without Tension		Under Maximum Tension
		10 × Cable-Ø		20 × Cable-Ø
Temperature range	°C	Installation	Transport. & Storage	Operation
		-40 -> +70;	-40 -> +70 ;	-40 -> +70
Flame Retardant & LSZH		IEC 30332-1, IEC 61034, IEC 60754-1 & 2.		
Fire Resistance		N/A		

Please refer to our General Installation, Safety & Handling recommendations before handling.

Main characteristics

Test	Standard	Value	Sanction*
Max. installation tension	IEC 60794-1-2-E1	2700N	fibre strain ≤ 0.33%, Δα reversible
Crush(short term)	IEC 60794-1-2-E3	2000 N / 100mm	Δα ≤ 0.3 dB(MM), 0.1 dB(SM)
Temperature range	IEC 60794-1-2-F1	-40 -> +70°C	Δα ≤ 0.3 dB/km(MM), 0.1 dB/km(SM)
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water=1m	No water leakage after 24 hour

* values for single-mode fibres, all optical measurements performed at 1550 nm.

* values for multi-mode fibres, all optical measurements performed at 1300 nm

Optical Characteristics

See the attached cabled optical fibre data sheet.

Identification

Fibre Colours

Ribbon Fibre Color Code	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Grey	White
	7	8	9	10	11	12
	Red	Black	Yellow	Purple	Pink	Aqua

Loose Tube Colours

Tube Color Code	Inner layer	1	2	3	4	5	6		
		Blue	Orange	Green	Brown	Grey	White		
	Outer layer	1	2	3	4	5	6	7	8~12
		Red	Black	Yellow	Purple	Pink	Aqua	Blue with black stripe	Filler

Sheath Colour:

The outer sheath is black.

Sheath Marking:

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

**HERMESYS LADONX FIBRE OPTICS CABLE RIBBON FIBER LSZH <2071BDH2211R124>
<YEAR> < 1248 x G657A2> (xxxx) M**

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 2 km with a tolerance of $\pm 5\%$.