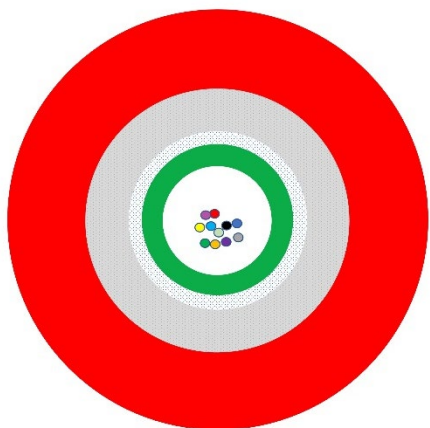


2-24 Core Fire Resistance Fibre Optic Cable, Non-Armor, Uni Tube, Anti-Rodent, Fully Dry Design

Cable Design

IEC/EN 60794-3-10



20XYY-3FR45504
- not to scale -

- **Strength member:** Glass yarn
- **Tube:** 4.0mm loose tube, containing up to 24 optical fibres with Hermesys fully dry technology.
- **Longitudinal Water Tightness:** Water Blocking Tape & Yarn.
- **Fire Barriers:** Fire barrier tapes.
- **Anti-Rodent:** E-Glass Yarn
- **Outer Sheaths:** FR-LSOH red color with UV resistant
- **Suitable for critical system installation in heavy industrial applications under harsh environments.**

Technical data

No. of Fibres		2-24		
Design (Elements × Fibres per Tube)		Uni Tube		
Loose Tube / Filler - Ø	mm	4.0mm with jelly filled		
Anti-Rodent		Water Blocking E-Glass Yarn		
Outer sheaths thickness	mm	2.5		
Ripcord		1		
Cable diameter Nom.	mm	12.5		
Cable Weight	kg / km	175		
Min. bending radius	mm	Without Tension		Under Maximum Tension
		10 × Cable-Ø		20 × Cable-Ø
Temperature range	°C	Installation -10 -> +60;	Transport. & Storage -30 -> +60 ;	Operation -25 -> +70
Flame Retardant & LSZH		IEC 60332-1, IEC 60332-3-24, IEC 61034, IEC 60754-1 & 2.		
Fire Resistance		IEC60331-25/BS 8434-2 (No fiber break)		

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	2000N	fibre strain ≤ 0.5%, Δα reversible
Crush(short term)	IEC 60794-1-2-E3	1500 N / 100mm	Δα ≤ 0.3 dB(MM), 0.1 dB(SM)
Temperature range	IEC 60794-1-2-F1	-25 -> +70°C	Δα 0.05 dB /km
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

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

No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

Sheath Colour:

The outer sheath is red.

Sheath Marking:

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

**HERMESYS CHIIMERAX FIBRE OPTICS CABLE UNI TUBE NON ARMOR FULLY DRY FIRE
RESISTANT FR-LSOH JACKET<20XYY-3FR45504> <YEAR> < Fibre cores x fibre type>**

X= Fiber Type

YY=Fiber Count

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 4 km with a tolerance of $\pm 5\%$.