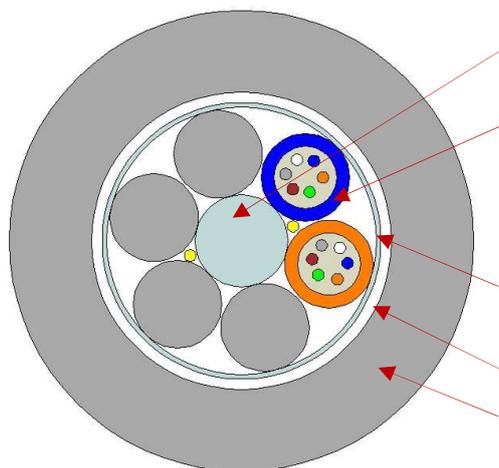


UCFIBRE™ 4-144 Core LTFGM Series, Non Metallic Glass Yarn Armoured, LSZH Sheath

Cable Design

IEC/EN 60794-3-10



- not to scale -

- **Central strength member (CSM):** Glass fibre reinforced plastic material (FRP) with plastic coating when needed.
- **Tube:** Thermoplastic material, containing up to 12 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 and water blocking yarn (dry core).
- **Peripheral reinforcement:** Glass yarns.
- **Outer Sheath:** LSZH.
- **Compliant to IEC60332-1, IEC60754-1/2, IEC61034-2, UL1581 UV Resistant. Suitable for Duct Buried or Indoor/Outdoor Installation.**

Technical data

No. of Fibres		4, 8	6, 12, 24	36, 48, 60, 72	96	120, 144
Design (Elements × Fibres per Tube)		6x4	6x6	6x12	8x12	12x12
Loose Tube / Filler - Ø	mm	1.8	1.8	2.1	2.1	2.1
CSM/sheath diameter	mm	2.0	2.0	2.3	2.2/3.7	2.7/6.6
Outer sheath thickness	mm	1.5 nominal	1.5 nominal	1.5 nominal	1.5 nominal	1.5 nominal
Cable Diameter	mm	10.0 nominal	10.0 nominal	10.7 nominal	12.0 nominal	14.6 nominal
Cable Weight	kg / km	107	107	119	143	213
Min. bending radius	mm	Without Tension 10 × Cable-Ø		Under Maximum Tension 20 × Cable-Ø		
Temperature range	°C	Installation -10 -> +60;		Transport. & Storage -40 -> +70 ;		Operation -30 -> +70

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	1500N	fibre strain ≤ 0.33%, Δα reversible
Crush(short term)	IEC 60794-1-2-E3	1000 N / 100mm	Δα ≤ 0.3 dB(MM), 0.1 dB(SM)
Temperature range	IEC 60794-1-2-F1	-30 -> +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

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

Loose Tube 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

Fillers are black.

Sheath Colour:

The outer sheath is black.

Sheath Marking:

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

**PRYSMIAN UC FIBRE OPTIC CABLE LOOSE TUBE NON METALLIC GLASS YARN LSZH <UC Product Code> <BATCHCODE>
<FIBRE QTY x FIBRE TYPE> <FC> <XXXX>M**

<UC Product Code> : LTFGM<***><MY>

<***> : Fibre core qty i.e. 4 to 144 fibre

<MY> : Transmission mode i.e. OM1–M1, OM2–M2, OM3–M3, OM4–M4, G.652-SM, G.656-S6, G.657-S7

<FIBRE TYPE> : OM1 / OM2 / OM3 / OM4 / G.652D / G.656 / G.657A1 / G.657B3

<BATCHCODE> : Factory defined tracking code MM/YYYY or WW/YYYY

<FC> : Draka defined factory Code

<XXXX> : Increasing length marking by 1metre

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

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

Enquiries

Please contact our local sales offices or mms.asia@prysmiangroup.com

UCFIBRE™ covers the fibre optical cables under Draka Structured Cable Solutions for Fibre & Copper.

Ask about UCONNECT™ for a complete Fibre Optics Solutions with 25 Years System Warranty.

Visit www.DrakaUC.com for more information.

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