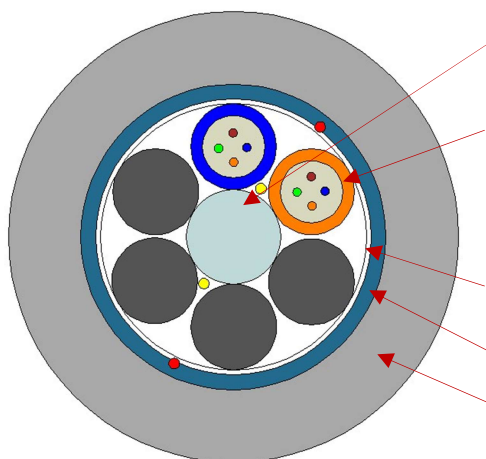


UCFIBRE® 4-144 Cores LTZSM Series, Light Armoured Cable, LSZH Sheath, Dry Core

Cable Design

IEC/EN 60794-3-10



- not to scale -

- **Central strength member (CSM):** steel wire 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:** WB tape and water blocking yarn (dry core)
- **Armour:** corrugated steel tape.
- **Outer Sheath:** LSZH. Compliant to IEC60332-3-24, IEC60332-1, IEC60754-1/2, IEC61034-2, UV Resistant.
- **Suitable for Duct Buried or Indoor/Outdoor Installation.**

Standards

ISO 11801-1, EN 50173-1, IEC 60794-3-10

Technical data

No. of Fibres		4, 8	6, 12, 24	36, 48, 72	96	144
Design (Elements × Fibres per Tube)		6x4	6x6	6x12	8x12	12x12
Loose tube / filler - Ø	mm	1.8	1.8	2.0	2.0	2.0
CSM/sheath diameter	mm	2.0	2.0	2.2	2.0/3.5	2.2/6.2
Outer sheath thickness	mm	1.8 nominal	1.8 nominal	1.8 nominal	1.8 nominal	1.8 nominal
Cable diameter	mm	11.0	11.0	11.6	12.9	15.6
Cable weight	kg / km	162	161	177	205	277
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 -40 -> +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	3000N	fibre strain ≤ 0.33%, Δα reversible
Crush(short term)	IEC 60794-1-2-E3	3000 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-F5C	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 ARMOUR LSZH <UC Product Code> <BATCHCODE>
 <FIBRE QTY x FIBRE TYPE> <FC> <XXXX>M

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

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

<MY> : Transmission mode i.e. OM1–M1, OM2–M2, OM3–M3, OM4–M4, G.652D-SM, G.657A1-A1, G657A2-A2

<FIBRE TYPE> : OM1 / OM2 / OM3 / OM4 / G.652D / G.657A2 / G.657A1

<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 ± 5%.

Order Information

Prysmian Group material code	Prysmian Group material description	UC Product Code	Fibre count	Fibre type
60078676	UCFIBRE I/O ST CST LSZH-FR 4 SM2D BK	LTZSM004SM	4	G652D
	UCFIBRE I/O ST CST LSZH-FR 6 SM2D BK	LTZSM006SM	6	G652D
60074917	UCFIBRE I/O ST CST LSZH-FR 8 SM2D BK	LTZSM008SM	8	G652D
60075334	UCFIBRE I/O ST CST LSZH-FR 12 SM2D BK	LTZSM012SM	12	G652D
60074930	UCFIBRE I/O ST CST LSZH-FR 24 SM2D BK	LTZSM024SM	24	G652D
	UCFIBRE I/O ST CST LSZH-FR 36 SM2D BK	LTZSM036SM	36	G652D
60075936	UCFIBRE I/O ST CST LSZH-FR 48 SM2D BK	LTZSM048SM	48	G652D
60074538	UCFIBRE I/O ST CST LSZH-FR 72 SM2D BK	LTZSM072SM	72	G652D
60074920	UCFIBRE I/O ST CST LSZH-FR 96 SM2D BK	LTZSM096SM	96	G652D
	UCFIBRE I/O ST CST LSZH-FR 4 OM2B BK	LTZSM004M2	4	OM2
	UCFIBRE I/O ST CST LSZH-FR 6 OM2B BK	LTZSM006M2	6	OM2
60075333	UCFIBRE I/O ST CST LSZH-FR 8 OM2B BK	LTZSM008M2	8	OM2
	UCFIBRE I/O ST CST LSZH-FR 12 OM2B BK	LTZSM012M2	12	OM2
	UCFIBRE I/O ST CST LSZH-FR 4 OM3B BK	LTZSM004M3	4	OM3
60075967	UCFIBRE I/O ST CST LSZH-FR 6 OM3B BK	LTZSM006M3	6	OM3
	UCFIBRE I/O ST CST LSZH-FR 8 OM3B BK	LTZSM008M3	8	OM3
	UCFIBRE I/O ST CST LSZH-FR 12 OM3B BK	LTZSM012M3	12	OM3
60083739	UCFIBRE I/O ST CST LSZH-FR 24 OM3B BK	LTZSM024M3	24	OM3

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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