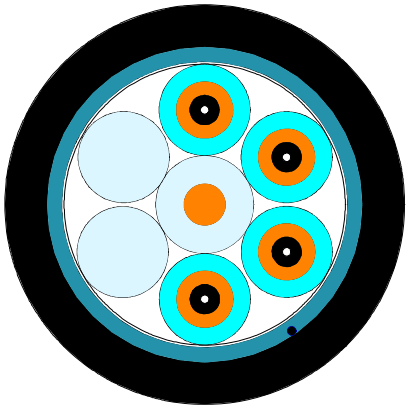
UC[FIBRE™] I/O B D DA LSHF LS9 2.7

Break-out cable , 2 – 6 ø2.7 mm fibre units, LS9 semi tight buffer, glass reinforcement , FireBur® sheath

DIN/VDE U-V(ZN)HQBH NO FR DK



Application and Installation

This cable features Draka's LS9 dry semi tight 900 µm buffer.
This cable is intended for tough installation environments.
This cable is built with individual heavy duty 2.7 mm break-out units, for easy and robust fitting of connectors.
A ripcord makes it possible to remove relatively long parts of the sheath and individually route the 2 – 6 optical units as desired.
The cable sheath is UV stabilised, metal free, with a degree of rodent protection, halogen free, and longitudinal water blocked.
The cable has very high tensile strength and is suited for vertical installation and installation on cable trays.
The cable can also be installed outdoors in ducts and even directly in the ground.

Standards

ISO 11801 2nd edition	EN 187 000
IEC 60794-2	IEC 60794-2-20
EN 50 173-1	

Construction

ø2.7 mm unit	LS9 semi tightly buffered fibre 900 µm ± 50 µm Aramid yarn strength member LSZH sheath	
Unit sheath colours	Cable with SM fibres	Yellow
	Cable with M5 fibres	Orange
	Cable with M6 fibres	Grey
	Cable with MaxCap-OM3 and MaxCap-OM4 fibres	Aqua
Strength member	Central FRP strength member, covered with LSZH material as appropriate	
2 – 6 units	SZ stranded around the strength member	
Wrapping	Waterblocking polyester non woven	
Ripcord	Polyester	
Sheath	Black FireBur® LSHF sheath, UV stabilised, EN 50290-2-27	

Fire rating

IEC 60332-1-2	Single vertical wire test

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IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke
	Heat of combustion: 2100 MJ/km , 0.58 kW/m

Physical properties

IEC 60974-1-2

Property	Test method	Value
Nominal diameter		12 mm
Nominal weight		120 kg/km
Permanent tensile strength [N]	E1	1500 N
Short term tensile strength (some days) [N]	E1	3000 N
Maximum installation load (a few hours) [N]	E1	4500 N
Impact	E4	20 Nm
Crush (compressive strength)	E3	3000 N / 100 mm
Torsion	E7	5 cycles ± 1 turn
Minimum bending radius under installation		75 mm
Minimum bending radius operating		130 mm
For version with BendBright^{XS} fibre: Minimum bending radius of the 2.7 mm units	E11	R= 7.5 mm R = 15 mm, 6 turns around a mandrel ø 30 mm (maximum attenuation increase ≤ 0.02 dB at 1550 nm). Maximum attenuation increase for R = 10 mm 0.1 dB/turn at 1550 nm. Maximum attenuation increase for R = 7.5 mm 0.5 dB/turn at 1550 nm.
Minimum bending radius of the 2.7 mm units, other fibres	E11	R = 20 mm
Temperature range	F1	Operation and Installation -20 °C to 70 °C Storage -40 °C to 70 °C

Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1020408	8	UCFIBRE I B N LSHF LS9 2.0 8 MM52	OM2 50/125 multi mode 600/1200	C01a
1020412	12	UCFIBRE I B N LSHF LS9 2.0 12 MM52	OM2 50/125 multi mode 600/1200	C01a
1020409	8	UCFIBRE I B N LSHF LS9 2.0 8 MM53	OM3 MaxCap-OM3 multi mode	C12
1020413	12	UCFIBRE I B N LSHF LS9 2.0 12 MM53	OM3 MaxCap-OM3 multi mode	C12
1020402	2	UCFIBRE I B N LSHF LS9 2.0 2 SM2D	OS2 Single mode G.652.D	C03e
1020404	4	UCFIBRE I B N LSHF LS9 2.0 4 SM2D	OS2 Single mode G.652.D	C03e
1020405	6	UCFIBRE I B N LSHF LS9 2.0 6 SM2D	OS2 Single mode G.652.D	C03e
1020406	8	UCFIBRE I B N LSHF LS9 2.0 8 SM2D	OS2 Single mode G.652.D	C03e
1020410	12	UCFIBRE I B N LSHF LS9 2.0 12 SM2D	OS2 Single mode G.652.D	C03e
1020414	24	UCFIBRE I B N LSHF LS9 2.0 24 SM2D	OS2 Single mode G.652.D	C03e
1020403	4	UCFIBRE I B N LSHF LS9 2.0 4 SM7B	BendBright^{XS} G.657.A2	C24
1020407	8	UCFIBRE I B N LSHF LS9 2.0 8 SM7B	BendBright^{XS} G.657.A2	C24
1020411	12	UCFIBRE I B N LSHF LS9 2.0 12 SM7B	BendBright^{XS} G.657.A2	C24

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