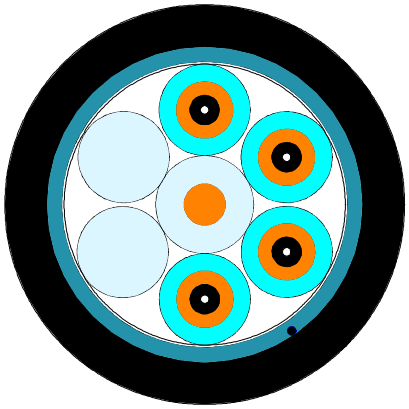
UC$^{FIBRE™}$ I/O B D DA LSHF LS9 2.7

Break-out cable , 2 – 8 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 – 8 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, RAL 1021
	Cable with MaxCap-BB-OM2 fibres	Orange, RAL 2003
	Cable with M6 fibres	Grey, RAL 7037
	Cable with MaxCap-BB-OM3 and MaxCap-BB-OM4 fibres	Aqua, RAL 6027
Strength member	Central FRP strength member, covered with LSZH material as appropriate	
2 – 8 numbered units	SZ stranded around the strength member	
Wrapping	Waterblocking polyester non woven	
Reinforcement	Layer of glass fibre rowing for rodent protection and added tensile strength	
Ripcord	Polyester	
Sheath	Black FireBur® LSHF sheath, UV stabilised, EN 50290-2-27	

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Fire rating

IEC 60332-1-2	Single vertical wire test		
IEC 60754-1	No halogens		
IEC 60754-2	No acid matters		
IEC 61034-2	No dense smoke		
Heat of combustion:	2 – 6 fibres	2100 MJ/km	0.60 kW/m
	8 fibres	4200 MJ/km	2,05 kW/m

Physical properties

IEC 60974-1-2

Property	Test method	Value	
Nominal diameter		2 – 6 fibres	12 mm
		8 fibres	14 mm
Nominal weight		2 – 6 fibres	120 kg/km
		8 fibres	225 kg/km
Permanent tensile strength [N]	E1	1800 N	
Short term tensile strength (some days) [N]	E1	3600 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

Sheath marking

Draka UC^{FIBRE} I/O B D DA LSHF LS9 2.7 <Fibre count> <Fibre type><Fibre brand><Item No>05<Batch Number><Meter mark> U-V(ZN)HQBH <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>

There is approximately 10cm space between the three blocks of text. Text string repeats every meter of the cable.

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Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1020417	2	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 2 MM52	OM2 50/125 multi mode	C01a
1020983	4	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 4 MM52	OM2 50/125 multi mode	C01a
1020424	6	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 6 MM52	OM2 50/125 multi mode	C01a
1021737	8	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 8 MM52	OM2 50/125 multi mode	C01a
1020418	2	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 2 OM3B	MaxCap-BB-OM3	C31
1020422	4	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 4 OM3B	MaxCap-BB-OM3	C31
1020425	6	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 6 OM3B	MaxCap-BB-OM3	C31
o. request	8	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 8 OM3B	MaxCap-BB-OM3	C31
o. request	2	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 2 OM4B	MaxCap-BB-OM4	C32
o. request	4	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 4 OM4B	MaxCap-BB-OM4	C32
o. request	6	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 6 OM4B	MaxCap-BB-OM4	C32
o. request	8	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 8 OM4B	MaxCap-BB-OM4	C32
1020415	2	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 2 SM2D	OS2 Single mode	C03e
1020419	4	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 4 SM2D	OS2 Single mode	C03e
1020423	6	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 6 SM2D	OS2 Single mode	C03e
o. request	8	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 8 SM2D	OS2 Single mode	C03e
1020416	2	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 2 SM7B	BendBright^{XS} G.657.A2	C24
1020420	4	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 4 SM7B	BendBright^{XS} G.657.A2	C24
o. request	6	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 6 SM7B	BendBright^{XS} G.657.A2	C24
o. request	8	UC^{FIBRE} I/O B D DA LSHF LS9 2.7 8 SM7B	BendBright^{XS} G.657.A2	C24

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