

## UC<sup>FIBRE™</sup> | B N LSHF-FR ES9 2.0

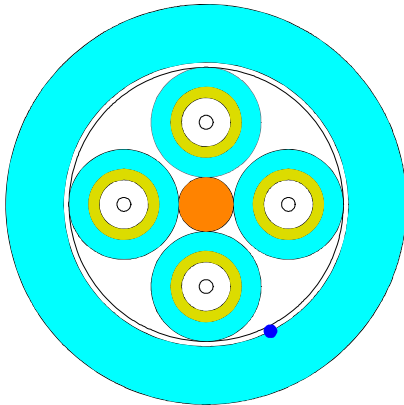
**Break-out cable , ø2.0 mm units, ES9 buffer, aramid yarns, 2 – 24 fibres, FireRes<sup>®</sup> sheath**

DIN/VDE J-V(ZN)HH

NO

FR COBOLZ

DK D03



### Application and Installation

This break-out or heavy duty tightly buffered cable features ø2.0 mm single fibre break-out units.

This cable features Draka's ES9 easy strippable tight buffer

Applications include: LAN backbones, central office interconnections, backbones in data centres, and many other.

The cable is suited for installation in ducts and on trays.

The cable features an UV stabilised, water and moisture resistant FireRes<sup>®</sup> sheathing. The cable is thus well suited for shorter outdoor runs.

### Standards

ISO 11801 2 <sup>nd</sup> edition	EN 187 000
IEC 60794-2	IEC 60794-2-20
EN 50 173-1	

### Construction

ø2.0 mm unit	ES9 tightly buffered fiber 900 µm ± 50 µm Aramid yarn strength member LSZH sheath, in the same colour as the outer sheath, marked with unit number	
Strength member	Central FRP strength member, covered with LSZH material as appropriate	
2 – 24 units	SZ stranded around the strength member	
Wrapping	Polyester foil	
Ripcord	Polyester	
Sheath colours	Cable with SM fibres	Yellow
	Cable with M5 fibres	Orange
	Cable with M6 fibres	Grey
	Cable with OM3 and OM4 fibres	Aqua
Sheath	FireRes <sup>®</sup> LSHF-FR sheath, UV stabilised, EN 50290-2-27	

### Fire rating

IEC 60332-1-2	Single vertical wire test
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*Note: The Draka policy of continuous improvement may cause in changed specifications without prior notice*

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IEC 60332-3-24 = IEC 332-3C	Vertically-mounted bunched wires and cables
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

### Heat of combustion

2 and 4	870 MJ/km	0.24 kWh/m
6	1200 MJ/km	0.33 kWh/m
8	1500 MJ/km	0.42 kWh/m
12	2500 MJ/km	0.70 kWh/m
16	2500 MJ/km	0.70 kWh/m
24	3600 MJ/km	1.00 kWh/m

### Physical properties

IEC 60974-1-2

Fibre count		2, 4	6	8	12	16	24
Permanent tensile strength [N]	E11	450	600	800	1150	1000	1500
Short term tensile strength (some days) [N]	E11	900	1200	1600	2300	2000	3000
Maximum installation load (a few hours) [N]	-	1300	1800	2400	3500	3000	4500
Impact	E4	20 J					
Crush (compressive strength)	E3	1500 N/ 100 mm					
Torsion	E7	5 cycles ± 1 turn					
Temperature range	F1	Operation and Installation		-20 °C to 70 °C			
		Storage		-40 °C to 70 °C			

### Mechanical properties

Fibre count	Nominal diameter	Nominal cable weight	Minimum bending radius Long term/short term
2, 4	7.5 mm	60 kg/km	130/75 mm
6	8.5 mm	75 kg/km	150/100 mm
8	10 mm	100 kg/km	150/100 mm
12	12.5 mm	160 kg/km	250/150 mm
16	12 mm	145 kg/km	240/140 mm
24	14.5 mm	210 kg/km	280/175 mm

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### Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
	4	UCFIBRE I B N LSHF-FR ES9 2.0 4 MM52	OM2 50/125 multi mode 600/1200	C01a
	8	UCFIBRE I B N LSHF-FR ES9 2.0 8 MM52	OM2 50/125 multi mode 600/1200	C01a
	12	UCFIBRE I B N LSHF-FR ES9 2.0 12 MM52	OM2 50/125 multi mode 600/1200	C01a
	4	UCFIBRE I B N LSHF-FR ES9 2.0 4 MM53	OM3 MaxCap-OM3 multi mode	C12
	8	UCFIBRE I B N LSHF-FR ES9 2.0 8 MM53	OM3 MaxCap-OM3 multi mode	C12
	12	UCFIBRE I B N LSHF-FR ES9 2.0 12 MM53	OM3 MaxCap-OM3 multi mode	C12
	4	UCFIBRE I B N LSHF-FR ES9 2.0 4 MM61	OM1 62.5/125 multi mode	C02
	6	UCFIBRE I B N LSHF-FR ES9 2.0 6 MM61	OM1 62.5/125 multi mode	C02
	8	UCFIBRE I B N LSHF-FR ES9 2.0 8 MM61	OM1 62.5/125 multi mode	C02
	12	UCFIBRE I B N LSHF-FR ES9 2.0 12 MM61	OM1 62.5/125 multi mode	C02
	6	UCFIBRE I B N LSHF-FR ES9 2.0 4 SM2D	OS2 Single mode	C03e
	8	UCFIBRE I B N LSHF-FR ES9 2.0 8 SM2D	OS2 Single mode	C03e
	12	UCFIBRE I B N LSHF-FR ES9 2.0 12 SM2D	OS2 Single mode	C03e

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