



## UC<sup>FIBRE™</sup> I/O DI N LSHF ES9

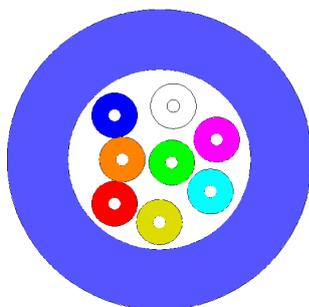
### ES9 tight buffer, 2- 24 fibres, Glass yarns, FireBur® sheath

DIN/VDE U-V(ZN) H

NO

FR COMTFV

DK



### Application and Installation

This distribution or mini-break-out cable can be used for many indoor applications and outdoor applications. The cable features our new and improved **ES9** tight buffer.

Typical cable applications include: LAN and WAN 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 FireBur® sheathing, the cable is thus well suited for outdoor runs; but is not longitudinal waterblocked.

### Standards

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

### Construction

Fibre	2 - 24 <b>ES9</b> tightly buffered fibres 900 µm ± 50 µm.		
Fibre colour code	1 Red	13	Yellow w/mark every 70 mm
	2 Green	14	White w/mark every 70 mm
	3 Blue	15	Grey w/mark every 70 mm
	4 Yellow	16	Turquoise w/mark every 70 mm
	5 White	17	Orange w/mark every 70 mm
	6 Grey	18	Pink w/mark every 70 mm
	7 Brown	19	Yellow w/mark every 35 mm
	8 Violet	20	White w/mark every 35 mm
	9 Turquoise	21	Grey w/mark every 35 mm
	10 Black	22	Turquoise w/mark every 35 mm
	11 Orange	23	Orange w/mark every 35 mm
	12 Pink	24	Pink w/mark every 35 mm
Strength member	E- Glass rovings		
Sheath	1.1 mm blue FireBur®, Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised		

Note: The Draka policy of continuous improvement may cause in changed specifications without prior notice

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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

### Physical properties

IEC 60974-1-2

Property	Test method	Value	
Permanent tensile strength	E11	2, 4, 6, 8 and 12 fibres	500 N
		16 fibres	1000 N
		24 fibres	1500 N
Short term tensile strength (some days)	E11	2, 4, 6, 8 and 12 fibres	1000 N
		16 fibres	1400 N
		24 fibres	1600 N
Maximum installation load (a few hours)	-	2, 4, 6, 8 and 12 fibres	1500 N
		16 fibres	2100 N
		24 fibres	2400 N
Impact	E4	20 J	
Crush (compressive strength)	E3	3000 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

### Physical properties

Fibre count	Heat of combustion		Nominal diameter	Nominal cable weight	Minimum bending radius
					Long term/short term
2	660 MJ/km	0.18 KWh/m	6 mm	32 kg/km	100/50 mm
4	760 MJ/km	0.21 KWh/m	6.5 mm	34 kg/km	100/50 mm
6	845 MJ/km	0.23 KWh/m	6.5 mm	36 kg/km	100/50 mm
8	970 MJ/km	0.29 KWh/m	7.0 mm	39 kg/km	100/50 mm
12	1180 MJ/km	0.33 KWh/m	7.0 mm	43 kg/km	130/75 mm
16	1400 MJ/km	0.39 KWh/m	8.0 mm	52 kg/km	130/75 mm
24	1700 MJ/km	0.47 KWh/m	8.5 mm	63 kg/km	230/115 mm

### Sheath marking

Draka UC<sup>FIBRE</sup> I/O DI N LSHF ES9 <Fibre count> <Fibre type><Fibre brand><Item No>05<Batch Number><Meter mark> U-V(ZN) H <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.*



## UC<sup>FIBRE™</sup> I/O DI N LSHF ES9

### Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1018616	4	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 4 OM2B	MaxCap-BB-OM2 50/125	C34
1018915	6	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 6 OM2B	MaxCap-BB-OM2 50/125	C34
1018620	8	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 8 OM2B	MaxCap-BB-OM2 50/125	C34
1018621	12	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 12 OM2B	MaxCap-BB-OM2 50/125	C34
1018622	24	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 24 OM2B	MaxCap-BB-OM2 50/125	C34
1020339	2	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 2 MM52	OM2 50/125 multi mode 600/1200	C01a
1017161	4	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 4 MM52	OM2 50/125 multi mode 600/1200	C01a
1018911	6	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 6 MM52	OM2 50/125 multi mode 600/1200	C01a
1017165	8	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 8 MM52	OM2 50/125 multi mode 600/1200	C01a
1018916	12	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 12 MM52	OM2 50/125 multi mode 600/1200	C01a
1018622	24	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 24 MM52	OM2 50/125 multi mode 600/1200	C01a
1020507	2	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 2 OM3B	MaxCap-BB-OM3	C31
1017374	4	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 4 OM3B	MaxCap-BB-OM3	C31
1018913	6	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 6 OM3B	MaxCap-BB-OM3	C31
1018619	8	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 8 OM3B	MaxCap-BB-OM3	C31
1019020	12	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 12 OM3B	MaxCap-BB-OM3	C31
1018921	24	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 24 OM3B	MaxCap-BB-OM3	C31
1019084	12	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 12 OM4B	MaxCap-BB-OM4	C32
1019085	24	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 24 OM4B	MaxCap-BB-OM4	C32
1018909	4	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 4 MM61	OM1 62.5/125 multi mode	C02
1018912	6	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 6 MM61	OM1 62.5/125 multi mode	C02
1018618	8	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 8 MM61	OM1 62.5/125 multi mode	C02
1017168	12	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 12 MM61	OM1 62.5/125 multi mode	C02
1019377	16	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 16 MM61	OM1 62.5/125 multi mode	C02
1017262	24	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 24 MM61	OM1 62.5/125 multi mode	C02
1018910	4	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 4 SM2D	OS2 single mode	C03e
1018914	6	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 6 SM2D	OS2 single mode	C03e
1017166	8	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 8 SM2D	OS2 single mode	C03e
1018919	12	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 12 SM2D	OS2 single mode	C03e
1018922	24	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 24 SM2D	OS2 single mode	C03e
1018917	12	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 6 MM52 + 6 SM2D	Hybrid 6 x OS2 single mode + 6 x MaxCap-BB-OM2 50/125	C03e + C34
1018918	12	UC <sup>FIBRE</sup> I/O DI N LSHF ES9 6 MM61 + 6 SM2D	Hybrid 6 x OS2 single mode + 6 x OM1 62.5/125	C03e + C02
1017380	24	UC <sup>FIBRE</sup> I/O DI N DA LSHF ES9 12 MM52 + 12 SM2D	Hybrid 12 x OS2 single mode + 12 x MaxCap-BB-OM2 50/125	C03e + C34
1020657	24	UC <sup>FIBRE</sup> I/O DI N DA LSHF ES9 12 OM3B + 12 SM2D	Hybrid 12 x OS2 single mode + 12 x MaxCap-BB-OM3	C03e + C31

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