

UC^{FIBRE™} S LSHF LS9 0.9 1

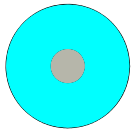
LS9 fibre cord, 1 dry semi tightly (loose) buffered fibre Ø900 µm

DIN/VDE

NO

FR

DK



Application and Installation

The intended use of this LS9 semi-tightly buffed fibre is pigtails. The LS9 buffered fibre may also be manufactured to patch-cords, and be used as an element in cables. The standard colours for the cord are yellow, orange, grey and aqua, as given in the table Construction. As an option the cords are available in 12 colours according to IEC 60304.

Construction

Fibre	Uncoloured nominally 250 µm fibre	
Standard buffer colour	With SM fibres	Yellow
	With M5 fibres	Orange
	With M6 fibres	Grey
	With MaxCap-OM3 and MaxCap-OM4 fibres	Aqua
Buffer	LS9 buffer to 900 µm	

Fire rating

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	Values
Diameter		Ø900 µm ± 50 µm
Weight		0.7 kg/km
Material		LSHF / LSZH material with high amount of flame retardants
Heat of combustion		17 MJ/km; 0.005 kWh/m
Stripping		1 meter
Shrink back		< 1%, IEC 60811-1-3, (70°C, 3 hours, 1 meter sample)
Crush resistance	E3	100N/100 mm
Repeated bending	E6	500 cycles, R= 20 mm , no damage
Kink	E10	No kink
For version with BendBright ^{XS} fibre: Minimum bending radius	E11/ G01	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.

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

UC^{FIBRE™} S LSHF LS9 0.9 1

Minimum bending radius, other fibres	E11 / G01	R = 20 mm
Temperature range	F1	Operation and installation -5 °C to 60 °C Storage -40 °C to 60 °C

Optical properties of the buffer

	OM1	OM2	MaxCap-OM3	MaxCap-OM4	ESMF	Bendbright ^{XS}
Attenuation 850 nm	≤3.2 dB/km	≤2.7 dB/km	≤2.7 dB/km	≤2.7 dB/km		
Attenuation 1300 nm	≤1.0 dB/km	≤0.8 dB/km	≤0.8 dB/km	≤0.8 dB/km		
Attenuation 1310 nm					≤0.39 dB/km	≤0.39 dB/km
Attenuation 1550 nm					≤0.25 dB/km	≤0.25 dB/km
Bandwidth 850 nm	200 MHz·km	600 MHz·km	1500 MHz·km	3500 MHz·km		
Bandwidth EMB 850 nm			2000 MHz·km	4700 MHz·km		
Bandwidth 1300 nm	600 MHz·km	1200 MHz·km	500 MHz·km	500 MHz·km		
Complete data see cabled fibre data sheet	C02	C01a	C12	C11	C18e	C24

Product codes – ordering information – standard variants

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1020462	1	UCFIBRE™ S LSHF LS9 0.9 1 MM52	OM2 50/125 multi mode 500/500	C23
1020470	1	UCFIBRE™ S LSHF LS9 0.9 1 MM53	MaxCap-OM3 multi mode	C12
1020448	1	UCFIBRE™ S LSHF LS9 0.9 1 MM61	OM1 65.5/125 multi mode	C02
1020428	1	UCFIBRE™ S LSHF LS9 0.9 1 SM2D.P	OS2 single mode	C18e
1020437	1	UCFIBRE™ S LSHF LS9 0.9 1 SM7B	BendBright ^{XS} G675. A/B	C24

Product codes – ordering information – 12 colour options

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1020460	1	UCFIBRE S LSHF LS9 0.9 1 MM52 Aqua	OM2 50/125 multi mode 600/1200	C01a
1020461	1	UCFIBRE S LSHF LS9 0.9 1 MM52 Black	OM2 50/125 multi mode 600/1200	C01a
1020455	1	UCFIBRE S LSHF LS9 0.9 1 MM52 Blue	OM2 50/125 multi mode 600/1200	C01a
1020458	1	UCFIBRE S LSHF LS9 0.9 1 MM52 Brown	OM2 50/125 multi mode 600/1200	C01a
1020457	1	UCFIBRE S LSHF LS9 0.9 1 MM52 Grey	OM2 50/125 multi mode 600/1200	C01a
1020462	1	UCFIBRE S LSHF LS9 0.9 1 MM52 Orange	OM2 50/125 multi mode 600/1200	C01a
1020463	1	UCFIBRE S LSHF LS9 0.9 1 MM52 Pink	OM2 50/125 multi mode 600/1200	C01a
1020459	1	UCFIBRE S LSHF LS9 0.9 1 MM52 Violet	OM2 50/125 multi mode 600/1200	C01a
1020456	1	UCFIBRE S LSHF LS9 0.9 1 MM52 Yellow	OM2 50/125 multi mode 600/1200	C01a
1020470	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Aqua	OM3 MaxCap-OM3 multi mode	C12
1020471	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Black	OM3 MaxCap-OM3 multi mode	C12
1020465	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Blue	OM3 MaxCap-OM3 multi mode	C12
1020468	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Brown	OM3 MaxCap-OM3 multi mode	C12
1020464	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Green	OM3 MaxCap-OM3 multi mode	C12

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

UC^{FIBRE™} S LSHF LS9 0.9 1

1020467	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Grey	OM3 MaxCap-OM3 multi mode	C12
1020472	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Orange	OM3 MaxCap-OM3 multi mode	C12
1020473	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Pink	OM3 MaxCap-OM3 multi mode	C12
1020469	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Violet	OM3 MaxCap-OM3 multi mode	C12
1020466	1	UCFIBRE S LSHF LS9 0.9 1 MM53 Yellow	OM3 MaxCap-OM3 multi mode	C12
1020451	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Aqua	OM1 62.5/125 multi mode	C02
1020452	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Black	OM1 62.5/125 multi mode	C02
1020446	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Blue	OM1 62.5/125 multi mode	C02
1020449	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Brown	OM1 62.5/125 multi mode	C02
1020445	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Green	OM1 62.5/125 multi mode	C02
1020448	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Grey	OM1 62.5/125 multi mode	C02
1020453	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Orange	OM1 62.5/125 multi mode	C02
1020454	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Pink	OM1 62.5/125 multi mode	C02
1020450	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Violet	OM1 62.5/125 multi mode	C02
1020447	1	UCFIBRE S LSHF LS9 0.9 1 MM61 Yellow	OM1 62.5/125 multi mode	C02
1020432	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Aqua	OS2 Single mode G652.D	C18e
1020433	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Black	OS2 Single mode G652.D	C18e
1020427	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Blue	OS2 Single mode G652.D	C18e
1020430	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Brown	OS2 Single mode G652.D	C18e
1020426	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Green	OS2 Single mode G652.D	C18e
1020429	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Grey	OS2 Single mode G652.D	C18e
1020434	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Orange	OS2 Single mode G652.D	C18e
1020435	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Pink	OS2 Single mode G652.D	C18e
1020431	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Violet	OS2 Single mode G652.D	C18e
1020428	1	UCFIBRE S LSHF LS9 0.9 1 SM2D.P Yellow	OS2 Single mode G652.D	C18e
1020441	1	UCFIBRE S LSHF LS9 0.9 1 SM7B Aqua	BendBrightXS G.657.A2	C24
1020442	1	UCFIBRE S LSHF LS9 0.9 1 SM7B Black	BendBrightXS G.657.A2	C24
1020439	1	UCFIBRE S LSHF LS9 0.9 1 SM7B Brown	BendBrightXS G.657.A2	C24
1020436	1	UCFIBRE S LSHF LS9 0.9 1 SM7B Green	BendBrightXS G.657.A2	C24
1020438	1	UCFIBRE S LSHF LS9 0.9 1 SM7B Grey	BendBrightXS G.657.A2	C24
1020443	1	UCFIBRE S LSHF LS9 0.9 1 SM7B Orange	BendBrightXS G.657.A2	C24
1020444	1	UCFIBRE S LSHF LS9 0.9 1 SM7B Pink	BendBrightXS G.657.A2	C24
1020440	1	UCFIBRE S LSHF LS9 0.9 1 SM7B Violet	BendBrightXS G.657.A2	C24
1020437	1	UCFIBRE S LSHF LS9 0.9 1 SM7B Yellow	BendBrightXS G.657.A2	C24

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