

UC^{FIBRE™} I/O DI D LSHF-FR ES9

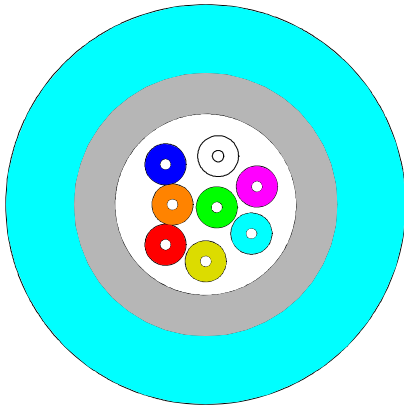
Tight buffer, 2 – 24 fibre, glass yarns, FireRes[®] sheath, waterblocked

DIN/VDE U-VQ(ZN) H

NO AXAI-I/O-W

FR

DK



Application and Installation

This distribution or mini-break-out cable can be used for many indoor and outdoor applications. Typical cable applications includes: LAN and WAN backbones, central office interconnections, backbones in data centres, and many other.

The unique feature of this cable is its wide temperature range with -40°C low operation temperature.

This cable is longitudinally water blocked.

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

The cable features an UV stabilised, water and moisture resistant FireRes[®] LSOH sheathing, the cable is thus well suited for shorter outdoor runs.

Standards

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

Construction

Fibre	2 - 24 ES9 tightly buffered fibres 900 µm ± 50 µm		
Fibre colour code	1	Red	13 Yellow w/mark per 70 mm
	2	Green	14 White w/mark per 70 mm
	3	Blue	15 Grey w/mark per 70 mm
	4	Yellow	16 Turquoise w/mark per 70 mm
	5	White	17 Orange w/mark per 70 mm
	6	Grey	18 Pink w/mark per 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

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

UC^{FIBRE™} I/O DI D LSHF-FR ES9

Water blocking	Swellable tread	
Strength member	Low fuzz glass yarns	
Sheath colours	Cable with SM fibres	Yellow
	Cable with M5 fibres	Orange
	Cable with M6 fibres	Grey
	Cable with MaxCap-OM3 or MaxCap-OM4 fibres	Aqua
Sheath	LSHF-FR fire retardant, UV stabilised, EN 50290-2-27	

Fire rating

IEC 60332-1-2	Single vertical wire test
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	210 MJ/km	0.06 KWh/m
4	310 MJ/km	0.09 KWh/m
8	560 MJ/km	0.16 KWh/m
12	765 MJ/km	0.21 KWh/m
24	1240 MJ/km	0.35 KWh/m

Physical properties

IEC 60974-1-2

Fibre count		2	4	6	8	12	24
Nominal diameter	-	4.5 mm	5 mm	5 mm	6 mm	6.5 mm	8 mm
Nominal cable weight	-	21 kg/km	26 kg/km	27 kg/km	35 kg/km	45 kg/km	65 kg/km
Minimum bending radius		50 mm	50 mm	50 mm	50 mm	50 mm	60 mm
Permanent tensile strength	E1	160 N	220 N	220 N	340 N	450 N	700 N
Maximum installation load	E1	325 N	440 N	440 N	680 N	900 N	1400 N
Impact	E4	10 J					
Crush (compressive strength)	E3	2000 N/ 100 mm (plate/plate) 750 N (mandrel/plate)					
Torsion	E7	5 cycles ± 1 turn/1 meter					
Flexing	E8	1000 cycles					
Cable bend	E11	0.2 dB/ ± 5 turn					
Cable bend at low temperature	E11A	No cracks or damage at -20 °C					
Temperature range	F1	Operation		-40 °C to 70 °C			
		Installation		-20 °C to 60 °C			
		Storage		-40 °C to 70 °C			
Water tightness	F5B	Pass					

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

UC^{FIBRE™} I/O DI D LSHF-FR ES9

Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1021061	2	UCFIBRE I/O DI D LSHF-FR ES9 2 MM51	OM2 50/125 multi mode 500/500	C23
1021064	4	UCFIBRE I/O DI D LSHF-FR ES9 4 MM51	OM2 50/125 multi mode 500/500	C23
1021069	6	UCFIBRE I/O DI D LSHF-FR ES9 6 MM51	OM2 50/125 multi mode 500/500	C23
1021075	8	UCFIBRE I/O DI D LSHF-FR ES9 8 MM51	OM2 50/125 multi mode 500/500	C23
1021080	12	UCFIBRE I/O DI D LSHF-FR ES9 12 MM51	OM2 50/125 multi mode 500/500	C23
1021086	24	UCFIBRE I/O DI D LSHF-FR ES9 24 MM51	OM2 50/125 multi mode 500/500	C23
1021062	2	UCFIBRE I/O DI D LSHF-FR ES9 2 MM52	OM2 50/125 multi mode	C01a
1021063	4	UCFIBRE I/O DI D LSHF-FR ES9 4 MM52	OM2 50/125 multi mode	C01a
1021070	6	UCFIBRE I/O DI D LSHF-FR ES9 6 MM52	OM2 50/125 multi mode	C01a
1021076	8	UCFIBRE I/O DI D LSHF-FR ES9 8 MM52	OM2 50/125 multi mode	C01a
1021081	12	UCFIBRE I/O DI D LSHF-FR ES9 12 MM52	OM2 50/125 multi mode	C01a
1021087	24	UCFIBRE I/O DI D LSHF-FR ES9 24 MM52	OM2 50/125 multi mode	C01a
1021067	4	UCFIBRE I/O DI D LSHF-FR ES9 4 MM53	MaxCap-OM3	C12
1021071	6	UCFIBRE I/O DI D LSHF-FR ES9 6 MM53	MaxCap-OM3	C12
1021077	8	UCFIBRE I/O DI D LSHF-FR ES9 8 MM53	MaxCap-OM3	C12
1021085	12	UCFIBRE I/O DI D LSHF-FR ES9 12 MM53	MaxCap-OM3	C12
1021088	24	UCFIBRE I/O DI D LSHF-FR ES9 24 MM53	MaxCap-OM3	C12
1021065	4	UCFIBRE I/O DI D LSHF-FR ES9 4 MM61	OM1 62.5/125 multi mode	C02
1021072	6	UCFIBRE I/O DI D LSHF-FR ES9 6 MM61	OM1 62.5/125 multi mode	C02
1021078	8	UCFIBRE I/O DI D LSHF-FR ES9 8 MM61	OM1 62.5/125 multi mode	C02
1021082	12	UCFIBRE I/O DI D LSHF-FR ES9 12 MM61	OM1 62.5/125 multi mode	C02
1021089	24	UCFIBRE I/O DI D LSHF-FR ES9 24 MM61	OM1 62.5/125 multi mode	C02
1021066	4	UCFIBRE I/O DI D LSHF-FR ES9 4 SM2D	OS2 Single mode	C03e
1021073	6	UCFIBRE I/O DI D LSHF-FR ES9 6 SM2D	OS2 Single mode	C03e
1020925	8	UCFIBRE I/O DI D LSHF-FR ES9 8 SM2D	OS2 Single mode	C03e
1021083	12	UCFIBRE I/O DI D LSHF-FR ES9 12 SM2D	OS2 Single mode	C03e
1021090	24	UCFIBRE I/O DI D LSHF-FR ES9 24 SM2D	OS2 Single mode	C03e
1021068	4	UCFIBRE I/O DI D LSHF-FR ES9 4 SM7B	BendBright ^{XS} G.657.A2	C24
1021074	6	UCFIBRE I/O DI D LSHF-FR ES9 6 SM7B	BendBright ^{XS} G.657.A2	C24
1021079	8	UCFIBRE I/O DI D LSHF-FR ES9 8 SM7B	BendBright ^{XS} G.657.A2	C24
1021084	12	UCFIBRE I/O DI D LSHF-FR ES9 12 SM7B	BendBright ^{XS} G.657.A2	C24
1021091	24	UCFIBRE I/O DI D LSHF-FR ES9 24 SM7B	BendBright ^{XS} G.657.A2	C24