

UC^{FIBRE™} I/O DI D LSHF-FR ES9

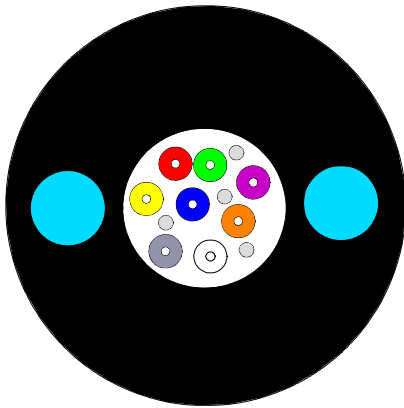
Tight buffer, 2 – 24 fibres, FRP rods embedded in a LSHF-FR sheath

DIN/VDE U-V(ZN)H

NO AXXI-I/O-W

FR

DK



Application and Installation

This extremely robust distribution style trunk cable is very well suited for LAN and WAN backbones, where robustness and a wide temperature range is needed.

The cable may be used for both indoor and outdoor installation.

Special features for outdoor application includes a UV stabilised sheath, a longitudinal water blocked core, and the wide temperature range.

For indoor application the cable features passing IEC 60332-24 fire test.

The cable can be installed on trays, in ducts and outside in the open

This cable features Draka's ES9 easy strippable tight buffer

Standards

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

Construction

Fibre	4 - 24 tightly buffered fibres 900 $\mu\text{m} \pm 50 \mu\text{m}$.		
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

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	12 Pink	24 Pink w/mark every 35 mm
Strength member	2 FRP strength elements	
Sheath	Black 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

4	2200 MJ/km	0.61 KWh/m
8	2350 MJ/km	0.65 KWh/m
12	2400 MJ/km	0.67 KWh/m
24	3000 MJ/km	0.83 KWh/m

Physical properties

IEC 60974-1-2

Permanent tensile strength	E1	500 N
Short term tensile strength (some days)	E1	800 N
Impact	E4	20 J
Crush (compressive strength)	E3	3000 N/ 100 mm
Torsion	E7	5 cycles ± 1 turn
Temperature range	F1	Operation -40 °C to 70 °C Installation -10 °C to 60 °C Storage -40 °C to 70 °C
Water tightness	F5B	Pass

Mechanical properties

Fibre count	Nominal diameter	Nominal cable weight	Minimum bending radius
4	9.6 mm	95 kg/km	75 mm
8	9.6 mm	97 kg/km	75 mm
12	9.9 mm	100 kg/km	75 mm
24	10.8 mm	134 kg/km	75 mm

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Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1021101	4	UCFIBRE I/O DI D LSHF-FR ES9 4 MM51	OM2 50/125 multi mode 500/500	C23
1021107	8	UCFIBRE I/O DI D LSHF-FR ES9 8 MM51	OM2 50/125 multi mode 500/500	C23
1021113	12	UCFIBRE I/O DI D LSHF-FR ES9 12 MM51	OM2 50/125 multi mode 500/500	C23
1021119	24	UCFIBRE I/O DI D LSHF-FR ES9 24 MM51	OM2 50/125 multi mode 500/500	C23
1021099	4	UCFIBRE I/O DI D LSHF-FR ES9 4 MM52	OM2 50/125 multi mode	C01a
1021105	8	UCFIBRE I/O DI D LSHF-FR ES9 8 MM52	OM2 50/125 multi mode	C01a
1021111	12	UCFIBRE I/O DI D LSHF-FR ES9 12 MM52	OM2 50/125 multi mode	C01a
1021117	24	UCFIBRE I/O DI D LSHF-FR ES9 24 MM52	OM2 50/125 multi mode	C01a
1021100	4	UCFIBRE I/O DI D LSHF-FR ES9 4 MM53	OM3 MaxCap-OM3	C12
1021106	8	UCFIBRE I/O DI D LSHF-FR ES9 8 MM53	OM3 MaxCap-OM3	C12
1021112	12	UCFIBRE I/O DI D LSHF-FR ES9 12 MM53	OM3 MaxCap-OM3	C12
1021118	24	UCFIBRE I/O DI D LSHF-FR ES9 24 MM53	OM3 MaxCap-OM3	C12
1021102	4	UCFIBRE I/O DI D LSHF-FR ES9 4 MM61	OM1 62.5/125 multi mode	C02
1021108	8	UCFIBRE I/O DI D LSHF-FR ES9 8 MM61	OM1 62.5/125 multi mode	C02
1021114	12	UCFIBRE I/O DI D LSHF-FR ES9 12 MM61	OM1 62.5/125 multi mode	C02
1021120	24	UCFIBRE I/O DI D LSHF-FR ES9 24 MM61	OM1 62.5/125 multi mode	C02
1021103	4	UCFIBRE I/O DI D LSHF-FR ES9 4 SM2D	OS2 Single mode	C03e
1021109	8	UCFIBRE I/O DI D LSHF-FR ES9 8 SM2D	OS2 Single mode	C03e
1021115	12	UCFIBRE I/O DI D LSHF-FR ES9 12 SM2D	OS2 Single mode	C03e
1021121	24	UCFIBRE I/O DI D LSHF-FR ES9 24 SM2D	OS2 Single mode	C03e
1021104	4	UCFIBRE I/O DI D LSHF-FR ES9 4 SM7B	BendBright ^{XS} G.657.A2	C24
1021110	8	UCFIBRE I/O DI D LSHF-FR ES9 8 SM7B	BendBright ^{XS} G.657.A2	C24
1021116	12	UCFIBRE I/O DI D LSHF-FR ES9 12 SM7B	BendBright ^{XS} G.657.A2	C24
1021122	24	UCFIBRE I/O DI D LSHF-FR ES9 24 SM7B	BendBright ^{XS} G.657.A2	C24

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