

UC^{FIBRE™} I/O DI N LSHF ES9

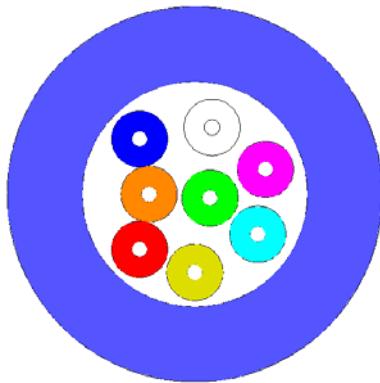
ES9 tight buffer, 2- 24 fibres, Glass yarns, FireBur® sheath

DIN/VDE U-V(ZN) H

NO

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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 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 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® / LSHF fire retardant, UV stabilised, EN 50290-2-27			

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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

Heat of combustion

2	660 MJ/km	0.18 KWh/m
4	760 MJ/km	0.21 KWh/m
6	845 MJ/km	0.23 KWh/m
8	970 MJ/km	0.29 KWh/m
12	1180 MJ/km	0.33 KWh/m
16	1400 MJ/km	0.39 KWh/m
24	1700 MJ/km	0.47 KWh/m

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 \pm 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	6 mm	32 kg/km	100/50 mm
4	6.5 mm	34 kg/km	100/50 mm
6	6.5 mm	36 kg/km	100/50 mm
8	7.0 mm	39 kg/km	100/50 mm
12	7.0 mm	43 kg/km	130/75 mm
16	8.0 mm	52 kg/km	130/75 mm
24	8.5 mm	63 kg/km	230/115 mm

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Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1018616	4	UCFIBRE I/O Di N LSHF ES9 4 MM51	OM2 50/125 multi mode 500/500	C23
1018915	6	UCFIBRE I/O Di N LSHF ES9 6 MM51	OM2 50/125 multi mode 500/500	C23
1018620	8	UCFIBRE I/O Di N LSHF ES9 8 MM51	OM2 50/125 multi mode 500/500	C23
1018621	12	UCFIBRE I/O Di N LSHF ES9 12 MM51	OM2 50/125 multi mode 500/500	C23
1018622	24	UCFIBRE I/O Di N LSHF ES9 24 MM51	OM2 50/125 multi mode 500/500	C23
1020339	2	UCFIBRE I/O Di N LSHF ES9 2 MM52	OM2 50/125 multi mode 600/1200	C01a
1017161	4	UCFIBRE I/O Di N LSHF ES9 4 MM52	OM2 50/125 multi mode 600/1200	C01a
1018911	6	UCFIBRE I/O Di N LSHF ES9 6 MM52	OM2 50/125 multi mode 600/1200	C01a
1017165	8	UCFIBRE I/O Di N LSHF ES9 8 MM52	OM2 50/125 multi mode 600/1200	C01a
1018916	12	UCFIBRE I/O Di N LSHF ES9 12 MM52	OM2 50/125 multi mode 600/1200	C01a
1018622	24	UCFIBRE I/O Di N LSHF ES9 24 MM52	OM2 50/125 multi mode 600/1200	C01a
1020507	2	UCFIBRE I/O Di N LSHF ES9 2 MM53	OM3 MaxCap-OM3	C12
1017374	4	UCFIBRE I/O Di N LSHF ES9 4 MM53	OM3 MaxCap-OM3	C12
1018913	6	UCFIBRE I/O Di N LSHF ES9 6 MM53	OM3 MaxCap-OM3	C12
1018619	8	UCFIBRE I/O Di N LSHF ES9 8 MM53	OM3 MaxCap-OM3	C12
1019020	12	UCFIBRE I/O Di N LSHF ES9 12 MM53	OM3 MaxCap-OM3	C12
1018921	24	UCFIBRE I/O Di N LSHF ES9 24 MM53	OM3 MaxCap-OM3	C12
1019084	12	UCFIBRE I/O Di N LSHF ES9 12 MM54	OM4 MaxCap-OM4	C11
1019085	24	UCFIBRE I/O Di N LSHF ES9 24 MM54	OM4 MaxCap-OM4	C11
1018909	4	UCFIBRE I/O Di N LSHF ES9 4 MM61	OM1 62.5/125 multi mode	C02
1018912	6	UCFIBRE I/O Di N LSHF ES9 6 MM61	OM1 62.5/125 multi mode	C02
1018618	8	UCFIBRE I/O Di N LSHF ES9 8 MM61	OM1 62.5/125 multi mode	C02
1017168	12	UCFIBRE I/O Di N LSHF ES9 12 MM61	OM1 62.5/125 multi mode	C02
1019377	16	UCFIBRE I/O Di N LSHF ES9 16 MM61	OM1 62.5/125 multi mode	C02
1017262	24	UCFIBRE I/O Di N LSHF ES9 24 MM61	OM1 62.5/125 multi mode	C02
1018910	4	UCFIBRE I/O Di N LSHF ES9 4 SM2D	OS2 single mode	C03e
1018914	6	UCFIBRE I/O Di N LSHF ES9 6 SM2D	OS2 single mode	C03e
1017166	8	UCFIBRE I/O Di N LSHF ES9 8 SM2D	OS2 single mode	C03e
1018919	12	UCFIBRE I/O Di N LSHF ES9 12 SM2D	OS2 single mode	C03e
1018922	24	UCFIBRE I/O Di N LSHF ES9 24 SM2D	OS2 single mode	C03e
1018917	12	UCFIBRE I/O Di N LSHF ES9 6 MM52 + 6 SM2D	Hybrid 6 x OS2 single mode + 6 x OM2 50/125 multi mode	C18e + C01a
1018918	12	UCFIBRE I/O Di N LSHF ES9 6 MM61 + 6 SM2D	Hybrid 6 x OS2 single mode + 6 x OM1 62.5/125 multi mode	C03e + C02
1017380	24	UCFIBRE I/O Di N DA LSHF ES9 12 MM52 + 12 SM2D	Hybrid 12 x OS2 single mode + 12 x OM2 50/125 multi mode	C03e + C01a
1020657	24	UCFIBRE I/O Di N DA LSHF ES9 12 MM53 + 12 SM2D	Hybrid 12 x OS2 single mode + 12 x MaxCap-OM3 multi mode	C03e + C12

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