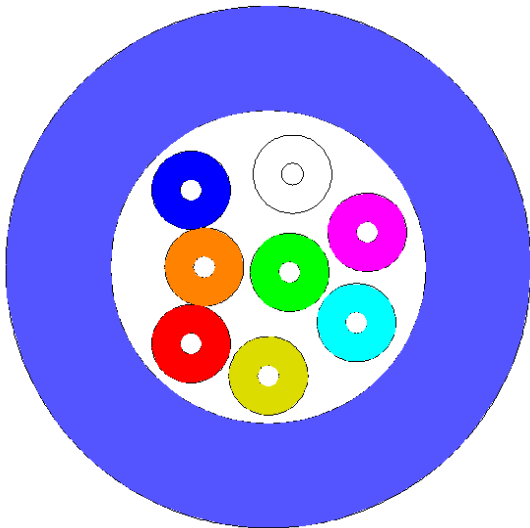


D12b: UC^{FIBRE™} distribution cable

Universal indoor/outdoor distribution or mini break-out cable with ES9 tight buffer, 2 – 24 fibres and FireBur[®] sheath, VDE: U-V(ZN)H



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 water blocked.

Standards

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

Flame resistance

LSHF (FRNC): IEC 60332-1-2; IEC 60754-2; IEC 61034

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Construction

Fibre	2 - 24 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	Blue FireBur®, halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilized			
Sheath marking	Draka UC ^{FIBRE} 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>			

Physical properties

IEC 60794-1-2

Attribute	Method	Limits						
Fibre count		2	4	6	8	12	16	24
Nominal diameter [mm]	-	6	6.5	6.5	7.0	7.5	8.0	8.5
Nominal weight [kg/km]	-	32	34	36	39	43	52	63
Maximum installation load (a few hours) [N]	-	1500					2100	2400
Short term tensile strength (some days) [N]	E1	1000					1400	1600
Permanent tensile strength [N]	E1	500					1000	1500
Impact [J]	E4	20 J						
Crush (compressive strength)	E3	3000 N/ 100 mm						
Torsion	E7	5 cycles ± 1 turn						
Minimum bending radius	E11	50				75		115
Minimum bending radius under tension	E18A	100				130		230
Temperature range	F1	Operation and Installation				-20 °C to 70 °C		
		Storage				-40 °C to 70 °C		
Minimum bending radius of the ES9 tightly buffered fibres	G01	With standard fibres				20 mm		
		With MaxCap-BB-OMx fibres				7.5 mm		
		With BendBright-XS fibers:				7.5 mm		
Heat of combustion [MJ/km] – [kW/m]		660 0.18	760 0.21	845 0.23	970 0.29	1180 0.33	1400 0.39	1700 0.47

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Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Draka Material code	Fibre count	Fibre type	Fibre data sheet
60020363	UCFIBRE I/O DI N LSHF ES9 2 OM2B	1027856	2	MaxCap-BB-OM2 50/125	C34
60018880	UCFIBRE I/O DI N LSHF ES9 4 OM2B	1018616	4	MaxCap-BB-OM2 50/125	C34
60011421	UCFIBRE I/O DI N LSHF ES9 6 OM2B	1018915	6	MaxCap-BB-OM2 50/125	C34
60018883	UCFIBRE I/O DI N LSHF ES9 8 OM2B	1018620	8	MaxCap-BB-OM2 50/125	C34
60018884	UCFIBRE I/O DI N LSHF ES9 12 OM2B	1018621	12	MaxCap-BB-OM2 50/125	C34
60018885	UCFIBRE I/O DI N LSHF ES9 24 OM2B	1018622	24	MaxCap-BB-OM2 50/125	C34
60011457	UCFIBRE I/O DI N LSHF ES9 2 MM52	1020339	2	OM2 50/125 multi mode 600/1200	C01a
60018787	UCFIBRE I/O DI N LSHF ES9 4 MM52	1017161	4	OM2 50/125 multi mode 600/1200	C01a
60018904	UCFIBRE I/O DI N LSHF ES9 6 MM52	1018911	6	OM2 50/125 multi mode 600/1200	C01a
	UCFIBRE I/O DI N LSHF ES9 8 MM52	1017165	8	OM2 50/125 multi mode 600/1200	C01a
60018907	UCFIBRE I/O DI N LSHF ES9 12 MM52	1018916	12	OM2 50/125 multi mode 600/1200	C01a
60019398	UCFIBRE I/O DI N LSHF ES9 16 MM52	1021654	16	OM2 50/125 multi mode 600/1200	C01a
	UCFIBRE I/O DI N LSHF ES9 24 MM52		24	OM2 50/125 multi mode 600/1200	C01a
60019274	UCFIBRE I/O DI N LSHF ES9 2 OM3B	1020507	2	MaxCap-BB-OM3	C31
60018808	UCFIBRE I/O DI N LSHF ES9 4 OM3B	1017374	4	MaxCap-BB-OM3	C31
60018905	UCFIBRE I/O DI N LSHF ES9 6 OM3B	1018913	6	MaxCap-BB-OM3	C31
60018882	UCFIBRE I/O DI N LSHF ES9 8 OM3B	1018619	8	MaxCap-BB-OM3	C31
60018933	UCFIBRE I/O DI N LSHF ES9 12 OM3B	1019020	12	MaxCap-BB-OM3	C31
60019399	UCFIBRE I/O DI N LSHF ES9 16 OM3B	1021655	16	MaxCap-BB-OM3	C31
60011423	UCFIBRE I/O DI N LSHF ES9 24 OM3B	1018921	24	MaxCap-BB-OM3	C31
60019673	UCFIBRE I/O DI N LSHF ES9 6 OM4B	1024671	6	MaxCap-BB-OM4	C32
60018942	UCFIBRE I/O DI N LSHF ES9 12 OM4B	1019084	12	MaxCap-BB-OM4	C32
60018943	UCFIBRE I/O DI N LSHF ES9 24 OM4B	1019085	24	MaxCap-BB-OM4	C32
60019686	UCFIBRE I/O DI N LSHF ES9 4 MM61	1024810	2	OM1 62.5/125 multi mode	C02
60018902	UCFIBRE I/O DI N LSHF ES9 4 MM61	1018909	4	OM1 62.5/125 multi mode	C02
60012489	UCFIBRE I/O DI N LSHF ES9 6 MM61	1018912	6	OM1 62.5/125 multi mode	C02
60018881	UCFIBRE I/O DI N LSHF ES9 8 MM61	1018618	8	OM1 62.5/125 multi mode	C02
60018791	UCFIBRE I/O DI N LSHF ES9 12 MM61	1017168	12	OM1 62.5/125 multi mode	C02
	UCFIBRE I/O DI N LSHF ES9 16 MM61	1019377	16	OM1 62.5/125 multi mode	C02
60018804	UCFIBRE I/O DI N LSHF ES9 24 MM61	1017262	24	OM1 62.5/125 multi mode	C02
60019428	UCFIBRE I/O DI N LSHF ES9 2 SM2D	1021837	2	OS2 single mode	C03e
60018903	UCFIBRE I/O DI N LSHF ES9 4 SM2D	1018910	4	OS2 single mode	C03e
60018906	UCFIBRE I/O DI N LSHF ES9 6 SM2D	1018914	6	OS2 single mode	C03e
	UCFIBRE I/O DI N LSHF ES9 8 SM2D	1017166	8	OS2 single mode	C03e
60018910	UCFIBRE I/O DI N LSHF ES9 12 SM2D	1018919	12	OS2 single mode	C03e
60019397	UCFIBRE I/O DI N LSHF ES9 16 SM2D	1021653	16	OS2 single mode	C03e
60018912	UCFIBRE I/O DI N LSHF ES9 24 SM2D	1018922	24	OS2 single mode	C03e
60019749	UCFIBRE I/O DI N LSHF ES9 4 SM7B	1025315	4	BendBrightXS G.657.A2	C24
60018909	UC ^{FIBRE} I/O DI N LSHF ES9 6 MM61 + 6 SM2D	1018918	12	Hybrid 6 x OS2 single mode + 6 x OM1 62.5/125	C03e + C02
60019288	UC ^{FIBRE} I/O DI N DA LSHF ES9 12 OM3B + 12 SM2D	1020657	24	Hybrid 12 x OS2 single mode + 12 x MaxCap-BB-OM3	C03e + C31

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