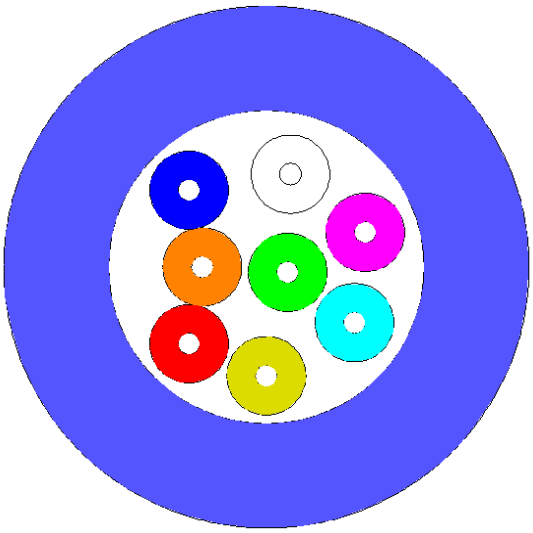
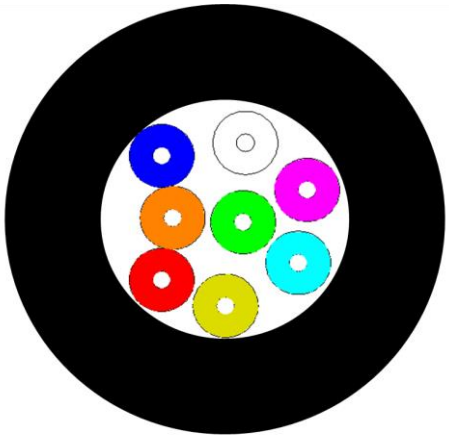
D12b: UC$^{FIBRE™}$ Universal Distribution Cable

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





Optional Black Sheath

E_{ca} CPR

Application and Installation

This distribution or mini-break-out cable can be used for many indoor applications and outdoor applications
The cable features Draka **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 (LSOH): IEC 60332-1-2; IEC 60754-2; IEC 61034; Class E_{ca}

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Construction

Fibre	2 - 24 tightly buffered fibres 900 µm ± 50 µm.			
Fibre colour code	1	Red	13	Red w/mark every 70mm
	2	Green	14	Green w/mark every 70mm
	3	Blue	15	Blue w/mark every 70mm
	4	Yellow	16	Yellow w/mark every 70mm
	5	White	17	White w/mark every 70mm
	6	Grey	18	Grey w/mark every 70mm
	7	Brown	19	Brown w/mark every 70mm
	8	Violet	20	Violet w/mark every 70mm
	9	Turquoise	21	Turquoise w/mark every 70mm
	10	Black	22	White w/mark every 35mm
	11	Orange	23	Orange w/mark every 70mm
	12	Pink	24	Pink w/mark every 70mm
Strength member	E- Glass rovings			
Sheath	Blue (Black optional) FireBur®, halogen free, UV stabilized			
Sheath marking	Draka UC^{FIBRE} I/O DI LSHF ES9 <Fibre count> <Fibre type><Fibre brand><Item No><Factory code><Batch Number><Meter mark> U-V(ZN) H <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>			

Physical Properties

IEC 60794-1-21/22

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) [N / 100 mm]	E3	3000					1000	1000
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 60 °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

Product Code	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60020363	UC^{FIBRE} I/O DI LSHF ES9 2 OM2B	2	MaxCap-BB-OM2	C34
60018880	UC^{FIBRE} I/O DI LSHF ES9 4 OM2B	4	MaxCap-BB-OM2	C34
60011421	UC^{FIBRE} I/O DI LSHF ES9 6 OM2B	6	MaxCap-BB-OM2	C34
60018883	UC^{FIBRE} I/O DI LSHF ES9 8 OM2B	8	MaxCap-BB-OM2	C34
60018884	UC^{FIBRE} I/O DI LSHF ES9 12 OM2B	12	MaxCap-BB-OM2	C34
60018885	UC^{FIBRE} I/O DI LSHF ES9 24 OM2B	24	MaxCap-BB-OM2	C34
60019951	UC^{FIBRE} I/O DI LSHF ES9 4 OM2B BK	4	MaxCap-BB-OM2	C34
60019952	UC^{FIBRE} I/O DI LSHF ES9 8 OM2B BK	8	MaxCap-BB-OM2	C34
60019953	UC^{FIBRE} I/O DI LSHF ES9 12 OM2B BK	12	MaxCap-BB-OM2	C34
60019954	UC^{FIBRE} I/O DI LSHF ES9 24 OM2B BK	24	MaxCap-BB-OM2	C34
60019274	UC^{FIBRE} I/O DI LSHF ES9 2 OM3B	2	MaxCap-BB-OM3	C31
60018808	UC^{FIBRE} I/O DI LSHF ES9 4 OM3B	4	MaxCap-BB-OM3	C31
60018905	UC^{FIBRE} I/O DI LSHF ES9 6 OM3B	6	MaxCap-BB-OM3	C31
60018882	UC^{FIBRE} I/O DI LSHF ES9 8 OM3B	8	MaxCap-BB-OM3	C31
60018933	UC^{FIBRE} I/O DI LSHF ES9 12 OM3B	12	MaxCap-BB-OM3	C31
60019399	UC^{FIBRE} I/O DI LSHF ES9 16 OM3B	16	MaxCap-BB-OM3	C31
60011423	UC^{FIBRE} I/O DI LSHF ES9 24 OM3B	24	MaxCap-BB-OM3	C31
60019530	UC^{FIBRE} I/O DI LSHF ES9 4 OM3B BK	4	MaxCap-BB-OM3	C31
60019531	UC^{FIBRE} I/O DI LSHF ES9 8 OM3B BK	8	MaxCap-BB-OM3	C31
60019532	UC^{FIBRE} I/O DI LSHF ES9 12 OM3B BK	12	MaxCap-BB-OM3	C31
60019534	UC^{FIBRE} I/O DI LSHF ES9 24 OM3B BK	24	MaxCap-BB-OM3	C31
60048332	UC^{FIBRE} I/O DI LSHF ES9 4 OM4B	4	MaxCap-BB-OM4	C32
60019673	UC^{FIBRE} I/O DI LSHF ES9 6 OM4B	6	MaxCap-BB-OM4	C32
60018942	UC^{FIBRE} I/O DI LSHF ES9 12 OM4B	12	MaxCap-BB-OM4	C32
60018943	UC^{FIBRE} I/O DI LSHF ES9 24 OM4B	24	MaxCap-BB-OM4	C32
60019535	UC^{FIBRE} I/O DI LSHF ES9 4 OM4B BK	4	MaxCap-BB-OM4	C32
60019536	UC^{FIBRE} I/O DI LSHF ES9 8 OM4B BK	8	MaxCap-BB-OM4	C32
60019537	UC^{FIBRE} I/O DI LSHF ES9 12 OM4B BK	12	MaxCap-BB-OM4	C32
60019539	UC^{FIBRE} I/O DI LSHF ES9 24 OM4B BK	24	MaxCap-BB-OM4	C32
	UC^{FIBRE} I/O DI LSHF ES9 12 OM5B	12	WideCap-OM5	C39
	UC^{FIBRE} I/O DI LSHF ES9 24 OM5B	24	WideCap-OM5	C39
60019686	UC^{FIBRE} I/O DI LSHF ES9 4 MM61	2	OM1 62.5/125	C02
60018902	UC^{FIBRE} I/O DI LSHF ES9 4 MM61	4	OM1 62.5/125	C02
60012489	UC^{FIBRE} I/O DI LSHF ES9 6 MM61	6	OM1 62.5/125	C02
60018881	UC^{FIBRE} I/O DI LSHF ES9 8 MM61	8	OM1 62.5/125	C02
60018791	UC^{FIBRE} I/O DI LSHF ES9 12 MM61	12	OM1 62.5/125	C02
60018804	UC^{FIBRE} I/O DI LSHF ES9 24 MM61	24	OM1 62.5/125	C02
60019428	UC^{FIBRE} I/O DI LSHF ES9 2 SM2D	2	OS2 G.652.D	C03e
60018903	UC^{FIBRE} I/O DI LSHF ES9 4 SM2D	4	OS2 G.652.D	C03e
60018906	UC^{FIBRE} I/O DI LSHF ES9 6 SM2D	6	OS2 G.652.D	C03e
60018910	UC^{FIBRE} I/O DI LSHF ES9 12 SM2D	12	OS2 G.652.D	C03e
60019397	UC^{FIBRE} I/O DI LSHF ES9 16 SM2D	16	OS2 G.652.D	C03e
60018912	UC^{FIBRE} I/O DI LSHF ES9 24 SM2D	24	OS2 G.652.D	C03e
60037923	UC^{FIBRE} I/O DI LSHF ES9 4 SM2D BK	4	OS2 G.652.D	C03e
60037924	UC^{FIBRE} I/O DI LSHF ES9 8 SM2D BK	8	OS2 G.652.D	C03e
60020574	UC^{FIBRE} I/O DI LSHF ES9 12 SM2D BK	12	OS2 G.652.D	C03e
60038345	UC^{FIBRE} I/O DI LSHF ES9 16 SM2D BK	16	OS2 G.652.D	C03e
60020341	UC^{FIBRE} I/O DI LSHF ES9 24 SM2D BK	24	OS2 G.652.D	C03e
	UC^{FIBRE} I/O DI LSHF ES9 6 SM7A1	6	BendBright G.657.A1	C17
	UC^{FIBRE} I/O DI LSHF ES9 12 SM7A1	12	BendBright G.657.A1	C17
	UC^{FIBRE} I/O DI LSHF ES9 24 SM7A1	24	BendBright G.657.A1	C17

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60019749	UC^{FIBRE} I/O DI LSHF ES9 4 SM7B	4	BendBrightXS G.657.A2	C24
	UC^{FIBRE} I/O DI LSHF ES9 6 SM7B	6	BendBrightXS G.657.A2	C24
	UC^{FIBRE} I/O DI LSHF ES9 12 SM7B	12	BendBrightXS G.657.A2	C24
	UC^{FIBRE} I/O DI LSHF ES9 24 SM7B	24	BendBrightXS G.657.A2	C24
60018909	UC^{FIBRE} I/O DI LSHF ES9 6 MM61 + 6 SM2D	12	Hybrid 6 x OS2 singlemode + 6 x OM1 62.5/125	C03e + C02
60019288	UC^{FIBRE} I/O DI LSHF ES9 12 OM3B + 12 SM2D	24	Hybrid 12 x OS2 singlemode + 12 x MaxCap-BB-OM3	C03e + C31
60044406	UC^{FIBRE} I/O DI LSHF ES9 12 OM4B + 12 SM2D	24	Hybrid 12 x OS2 singlemode + 12 x MaxCap-BB-OM4	C03e + C32
60019430	UC^{FIBRE} I/O DI LSHF ES9 6 OM3B + 6 SM2D	12	Hybrid 6 x OS2 singlemode + 6 x MaxCap-BB-OM3	C03e + C31