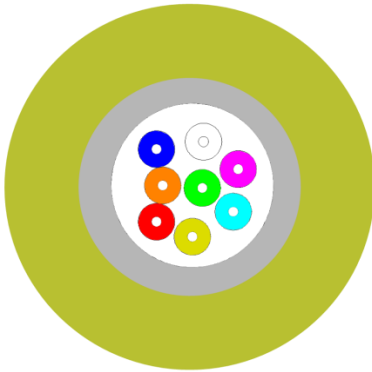


## D15a: UC<sup>FIBRE™</sup> Universal Distribution Cable

Universal (indoor/outdoor), distribution or mini break-out cable with ES9 tight buffer, up to 24 fibres, glass yarns and FireRes<sup>®</sup> sheath. VDE: U-VQ(ZN)H



### Application and installation

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

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<sup>®</sup> LSOH sheathing, the cable is thus well suited for shorter outdoor runs.

This cable features Draka's ES9 easy strippable tight buffer

### Standards

EN 187 000; IEC 60794-2; IEC 60794-2-20; ISO 11801-1; EN 50173-1

### Flame Resistance

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24; IEC 60754-1; IEC 60754-2; IEC 61034; EN 50399 Class D<sub>cas2d2a1</sub>, Class E<sub>ca</sub>

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## Construction

Fibre	2 - 24 ES9 tightly buffered fibres 900 µm ± 50 µm							
Fibre colour code	1	Red	13	Red w/mark per 70 mm				
	2	Green	14	Green w/mark per 70 mm				
	3	Blue	15	Blue w/mark per 70 mm				
	4	Yellow	16	Yellow w/mark per 70 mm				
	5	White	17	White w/mark per 70 mm				
	6	Grey	18	Grey w/mark per 70 mm				
	7	Brown	19	Brown w/mark per 70 mm				
	8	Violet	20	Violet w/mark per 70 mm				
	9	Turquoise	21	Turquoise w/mark every 70 mm				
	10	Black	22	White w/mark every 35 mm				
	11	Orange	23	Orange w/mark every 70 mm				
	12	Pink	24	Pink w/mark every 70 mm				
Water blocking	Swellable tread and tape							
Strength member	Low fuzz glass yarns							
Cable Sheath colours	Cable with SM fibres: BendBright <sup>XS</sup> G.657.A2, BendBright G.657.A1						Yellow, RAL 1018	
	Cable with OM1 fibres						Grey, RAL 7037	
	Cable with MaxCap-BendBright-OM2 fibres						Orange, RAL 2009	
	Cable with MaxCap-BendBright-OM3						Aqua, RAL 6027	
	Cable with MaxCap-BendBright-OM4						Erika-Violet, RAL 4003	
	Cable with BendBright WideCap-OM5 fibres						Lime-Green	
Sheath	LSHF-FR fire retardant, UV stabilised, EN 50290-2-27							
Print legend	Draka UC <sup>FIBRE</sup> I/O DI LSHF-FR Dca-s2-d2-a1 ES9 <Fibre count> <Fibre type><Fibre brand><Material Code><Factory No><Batch Number><Meter mark> U-VQ(ZN)H <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>							

## Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits						
		2	4	6	8	12	16	24
Fibre count	-	2	4	6	8	12	16	24
Nominal diameter [mm]	-	4.6	5.2	5.6	6.0	7.0	7.6	8.5
Nominal weight [kg/km]	-	19	27	31	36	48	58	73
Maximum installation load [N] (fibre strain < 0.5%)	E1	325	440	440	680	900	1100	1400
Permanent tensile strength [N] (fibre strain < 0.25%)	E1	160	220	220	340	450	550	700
Crush (compressive strength) [N/100 mm]	E3	2000						
Crush (compressive strength) (mandrel/plate)[N/100mm]	E3	750						
Impact [J]	E4	10						
Torsion	E7	5 cycles ± 1 turn						
Flexing	E8	1000 cycles						
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter						
Minimum bending radius (0.2 dB/ ± 5 turn) [mm]	E11	50	50	50	50	50	60	60
Cable bend at low temperature	E11A	No cracks or damage at -20 °C						
Temperature range	F1	Installation			-20 °C to 60 °C			
		Operation			-40 °C to 70 °C			
		Storage			-40 °C to 70 °C			
Water penetration	F5C	No water on free end						

# D15a: UC<sup>FIBRE</sup>™ Universal Distribution Cable

## Product Codes

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60019340	1004230	UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 4 OM2B OR	4	MaxCap-BB-OM2 50/125	C34
60019344	1004758	UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 6 OM2B OR	6	MaxCap-BB-OM2 50/125	C34
60019352	1004759	UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 12 OM2B OR	12	MaxCap-BB-OM2 50/125	C34
60019437	1004234	UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 4 OM3B AQ	4	MaxCap-BB-OM3	C31
60019346		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 6 OM3B AQ	6	MaxCap-BB-OM3	C31
60019351	1004233	UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 8 OM3B AQ	8	MaxCap-BB-OM3	C31
60019438	1004764	UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 12 OM3B AQ	12	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 24 OM3B AQ	24	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 4 OM4B 4003	4	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 6 OM4B 4003	6	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 8 OM4B 4003	8	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 12 OM4B 4003	12	MaxCap-BB-OM4	C32
60029664		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 24 OM4B 4003	24	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 4 OM5B LG	4	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 6 OM5B LG	6	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 8 OM5B LG	8	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 12 OM5B LG	12	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 24 OM5B LG	24	WideCap-OM5	C39
60019342		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 4 SM2D YL	4	G.652.D Single mode	C03e
60019348		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 6 SM2D YL	6	G.652.D Single mode	C03e
60019314		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 8 SM2D YL	8	G.652.D Single mode	C03e
60019354		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 24 SM2D YL	24	G.652.D Single mode	C03e
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 4 SM7A1 YL	4	BendBright G.657.A1 singlemode	C17
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 6 SM7A1 YL	6	BendBright G.657.A1 singlemode	C17
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 8 SM7A1 YL	8	BendBright G.657.A1 singlemode	C17
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 12 SM7A1 YL	12	BendBright G.657.A1 singlemode	C17
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 24 SM7A1 YL	24	BendBright G.657.A1 singlemode	C17
60033369		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 2 SM7B YL	2	BendBright <sup>XS</sup> G.657.A2 singlemode	C24
60019343	1004231	UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 4 SM7B YL	4	BendBright <sup>XS</sup> G.657.A2 singlemode	C24
60019349		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 6 SM7B YL	6	BendBright <sup>XS</sup> G.657.A2 singlemode	C24
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 8 SM7B YL	8	BendBright <sup>XS</sup> G.657.A2 singlemode	C24
60026678	1004246	UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 12 SM7B YL	12	BendBright <sup>XS</sup> G.657.A2 singlemode	C24
60029663	1004276	UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 24 SM7B YL	24	BendBright <sup>XS</sup> G.657.A2 singlemode	C24
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 12 SM7B.P YL	12	Tight Geometry, BendBright <sup>XS</sup> G.657.A2 singlemode	C25
		UC <sup>FIBRE</sup> I/O DI LSHF-FR ES9 24 SM7B.P YL	24	Tight Geometry, BendBright <sup>XS</sup> G.657.A2 singlemode	C25

\*DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: [www.prysmiangroup.com/cpr](http://www.prysmiangroup.com/cpr)

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