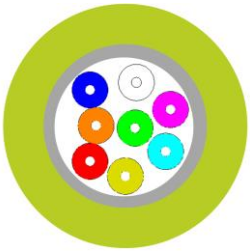
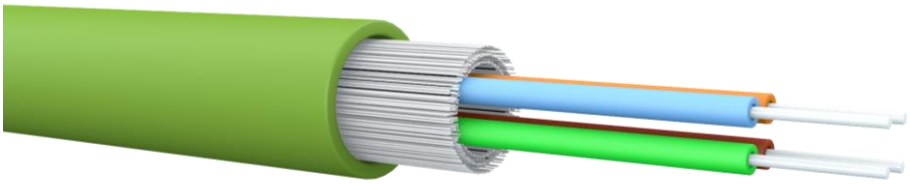
D33: UC$^{FIBRE™}$ Universal Distribution Cable

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





Application and Installation

This distribution or mini-break-out cable can be used for many indoor and limited outdoor applications.
The cable features Draka **ES9** tight buffer.
Glass yarns provide a degree of rodent protection
Typical cable applications include: LAN and WAN backbones, central office interconnections, backbones in data centres, and many other.
The cable is well suited for installation in ducts and on trays.
The cable features UV stabilised FireRes® sheathing, water-blocked, hence the cable is suited for indoor/outdoor (ducts) runs.

Standards

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

Flame Resistance

LSHF-FR (LSOH):	IEC 60332-1-2; IEC 60332-3-24 IEC 60754-2; IEC 61034
EN 50399:	Class D_{ca}s2-d2-a1, 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
Water blocking	Swellable tread and tape			
Strength member	Glass yarns as strength members and rodent protection			
Sheath colours	Cable with OS2 SM fibres: BendBright^{XS} G.657.A2, BendBright G.657.A1			Yellow, RAL 1018
	Cable with OM1			Grey, RAL 7037
	Cable with MaxCap-BendBright-OM2			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			Lime Green; RAL 6039
Sheath	FireRes®, halogen free, flame retardant, UV stabilized			
Sheath marking	Draka UC^{FIBRE} I/O DI LSHF-FR Dca-s2-d2-a1 ES9 <Fibre count> <Fibre type><Fibre brand><Item No><Factory No><Batch Number><Meter mark> U-VQ(ZN)BH <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]	-	6.0	6.5	6.5	7.0	7.5	8.0	8.5
Nominal weight [kg/km]	-	39	43	45	49	58	69	82
Short term tensile str. (fibre strain ≤ 0.6%) [N]	-	1500					2100	2400
Permanent tensile str. (fibre strain ≤ 0.2%) [N]	E1	500					700	800
Impact	E4	10 J						
Crush (compressive strength) [N / 100 mm]	E3	2000					1000	1000
Torsion	E7	5 cycles ± 1 turn						
Minimum bending radius – permanent (unloaded)	E11	60	65	65	70	75	80	85
Minimum bending radius – installation (loaded)	-	120	130	130	140	150	160	170
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	
Water penetration	F5C	No water on free end						

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Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
UC^{FIBRE} I/O DI LSHF-FR ES9 2 OM3B AQ	2	MaxCap-BB-OM3	C31
UC^{FIBRE} I/O DI LSHF-FR ES9 4 OM3B AQ	4	MaxCap-BB-OM3	C31
UC^{FIBRE} I/O DI LSHF-FR ES9 6 OM3B AQ	6	MaxCap-BB-OM3	C31
UC^{FIBRE} I/O DI LSHF-FR ES9 8 OM3B AQ	8	MaxCap-BB-OM3	C31
UC^{FIBRE} I/O DI LSHF-FR ES9 12 OM3B AQ	12	MaxCap-BB-OM3	C31
UC^{FIBRE} I/O DI LSHF-FR ES9 16 OM3B AQ	16	MaxCap-BB-OM3	C31
UC^{FIBRE} I/O DI LSHF-FR ES9 24 OM3B AQ	24	MaxCap-BB-OM3	C31
UC^{FIBRE} I/O DI LSHF-FR ES9 4 OM4B 4003	4	MaxCap-BB-OM4	C32
UC^{FIBRE} I/O DI LSHF-FR ES9 6 OM4B 4003	6	MaxCap-BB-OM4	C32
UC^{FIBRE} I/O DI LSHF-FR ES9 12 OM4B 4003	12	MaxCap-BB-OM4	C32
UC^{FIBRE} I/O DI LSHF-FR ES9 24 OM4B 4003	24	MaxCap-BB-OM4	C32
UC^{FIBRE} I/O DI LSHF-FR ES9 4 OM5B LG	4	WideCap-OM5	C39
UC^{FIBRE} I/O DI LSHF-FR ES9 6 OM5B LG	6	WideCap-OM5	C39
UC^{FIBRE} I/O DI LSHF-FR ES9 8 OM5B LG	8	WideCap-OM5	C39
UC^{FIBRE} I/O DI LSHF-FR ES9 12 OM5B LG	12	WideCap-OM5	C39
UC^{FIBRE} I/O DI LSHF-FR ES9 24 OM5B LG	24	WideCap-OM5	C39
UC^{FIBRE} I/O DI LSHF-FR ES9 12 SM2D YL	12	OS2 G.652.D	C03
UC^{FIBRE} I/O DI LSHF-FR ES9 24 SM2D YL	24	OS2 G.652.D	C03
UC^{FIBRE} I/O DI LSHF-FR ES9 12 SM2D.P YL	12	OS2 G.652.D, tight geometry	C18
UC^{FIBRE} I/O DI LSHF-FR ES9 24 SM2D.P YL	24	OS2 G.652.D, tight geometry	C18
UC^{FIBRE} I/O DI LSHF-FR ES9 12 SM7A1 YL	12	OS2 BendBright G.657.A1	C17
UC^{FIBRE} I/O DI LSHF-FR ES9 24 SM7A1 YL	24	OS2 BendBright G.657.A1	C17
UC^{FIBRE} I/O DI LSHF-FR ES9 12 SM7A1.P YL	12	OS2 BendBright G.657.A1, tight geometry	C38
UC^{FIBRE} I/O DI LSHF-FR ES9 24 SM7A1.P YL	24	OS2 BendBright G.657.A1, tight geometry	C38
UC^{FIBRE} I/O DI LSHF-FR ES9 12 SM7B YL	12	OS2 BendBright^{XS} G.657.A2	C24
UC^{FIBRE} I/O DI LSHF-FR ES9 24 SM7B YL	24	OS2 BendBright^{XS} G.657.A2	C24
UC^{FIBRE} I/O DI LSHF-FR ES9 12 SM7B.P YL	12	OS2 BendBright^{XS} G.657.A2, tight geometry	C25
UC^{FIBRE} I/O DI LSHF-FR ES9 24 SM7B.P YL	24	OS2 BendBright^{XS} G.657.A2, tight geometry	C25

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