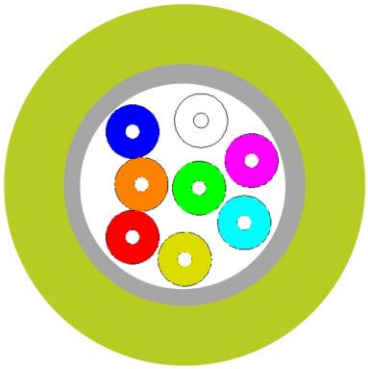
D36: UC$^{FIBRE™}$ Universal Distribution Cable

Universal (indoor/outdoor) distribution or mini break-out cable with ES9 tight buffer, water-blocking, up to 24 fibres and FireRes® sheath, Class-C_{ca} s1a-d1-a1 cable 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.
Typical cable applications include: LAN and WAN backbones, central office interconnections, backbones in data centres, and many other.
Glass yarns provide a degree of rodent protection.
This cable features high flame retardance with Cca approval.
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 C_{ca} s1a-d1-a1, Class D_{ca}, 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			
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 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
Sheath	1.5mm FireRes®, halogen free, flame retardant, UV stabilized			
Sheath marking	Draka UC^{FIBRE} I/O DI LSHF-FR Cca-s1a-d1-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]	-	7.0	7.2	7.4	7.6	8.2	8.6	9.6
Nominal weight [kg/km]	-	46	48	49	54	62	75	87
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 [J]	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	70	72	74	76	82	86	96
Minimum bending radius – installation (loaded)	-	140	144	148	152	164	172	192
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 Codes

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60060727	1006257	UC^{FIBRE} I/O DI LSHF-FR C ES9 2 OM3B	2	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O DI LSHF-FR C ES9 4 OM3B	4	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O DI LSHF-FR C ES9 6 OM3B	6	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O DI LSHF-FR C ES9 8 OM3B	8	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O DI LSHF-FR C ES9 12 OM3B	12	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O DI LSHF-FR C ES9 16 OM3B	16	MaxCap-BB-OM3	C31
60064977	1006269	UC^{FIBRE} I/O DI LSHF-FR C ES9 24 OM3B	24	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O DI LSHF-FR C ES9 4 OM4B	4	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O DI LSHF-FR C ES9 6 OM4B	6	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O DI LSHF-FR C ES9 12 OM4B	12	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O DI LSHF-FR C ES9 24 OM4B	24	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O DI LSHF-FR C ES9 4 OM5	4	WideCap-OM5	C39
		UC^{FIBRE} I/O DI LSHF-FR C ES9 6 OM5	6	WideCap-OM5	C39
		UC^{FIBRE} I/O DI LSHF-FR C ES9 8 OM5	8	WideCap-OM5	C39
		UC^{FIBRE} I/O DI LSHF-FR C ES9 12 OM5	12	WideCap-OM5	C39
		UC^{FIBRE} I/O DI LSHF-FR C ES9 24 OM5	24	WideCap-OM5	C39
60064976	1006268	UC^{FIBRE} I/O DI LSHF-FR C ES9 2 SM2D	2	OS2 G.652.D	C03
60060715	1006256	UC^{FIBRE} I/O DI LSHF-FR C ES9 24 SM2D	24	OS2 G.652.D	C03
		UC^{FIBRE} I/O DI LSHF-FR C ES9 12 SM7A1	12	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O DI LSHF-FR C ES9 24 SM7A1	24	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O DI LSHF-FR C ES9 12 SM7A1.P	12	OS2 BendBright G.657.A1, tight geometry	C38
		UC^{FIBRE} I/O DI LSHF-FR C ES9 24 SM7A1.P	24	OS2 BendBright G.657.A1, tight geometry	C38
		UC^{FIBRE} I/O DI LSHF-FR C ES9 12 SM7B	12	OS2 BendBrightXS G.657.A2	C24
		UC^{FIBRE} I/O DI LSHF-FR C ES9 24 SM7B	24	OS2 BendBrightXS G.657.A2	C24
		UC^{FIBRE} I/O DI LSHF-FR C ES9 12 SM7B.P	12	OS2 BendBright^{XS} G.657.A2, tight geometry	C25
		UC^{FIBRE} I/O DI LSHF-FR C ES9 24 SM7B.P	24	OS2 BendBright^{XS} G.657.A2, tight geometry	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*