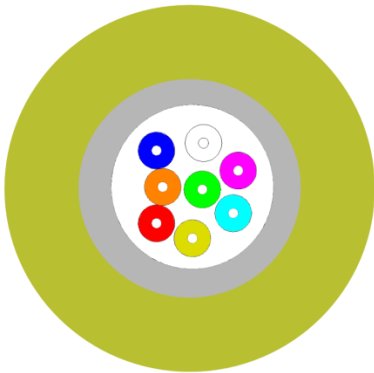


D34: UC^{FIBRE™} Universal Distribution Cable

Universal, distribution or mini break-out cable with ES9 tight buffer, with up to 24 fibres, glass yarns, water blocking and FireRes[®] sheath, Class C_{ca} s1a-d1-a1 cable, 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 include: 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[®] LSOH sheathing, the cable is thus well suited for shorter outdoor runs.

This cable features high flame retardance with Cca approval.

Standards

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

Flame Resistance

EN 50399: Class C_{ca}s1a-d1-a1, Class D_{ca}, Class E_{ca}
LSHF-FR (LSOH-FR): IEC 60332-1-2; IEC 60332-3-24, IEC 60754-2; IEC 61034

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Construction

Fibre	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	Sweallable tread		
Strength member	Glass yarns		
Sheath colours	Cable with SM fibres: BendBright G.657.A1, BendBright ^{XS} G.657.A2	Yellow, RAL 1018	
	Cable with MaxCap-BB-OM2	Orange, RAL 2009	
	Cable with MaxCap-BB-OM3	Aqua, RAL 6027	
	Cable with MaxCap-BB-OM4	Erika-Violet, RAL 4003	
	Cable with WideCap-OM5	Lime Green	
Sheath	1.5mm FireRes [®] , halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised		
Sheath marking	Draka UC ^{FIBRE} I/O DI LSHF-FR Cca-s1a-d1-a1 ES9 <fibre count> <Fibre type><Fibre brand><Item No><Factory Code><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]	-	5.8	6.2	6.6	7.0	7.8	8.4	9.3
Nominal weight [kg/km]	-	33	42	46	52	67	77	93
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 Installation bending radius (0.2 dB/ ± 5 turn) [mm]	E11	58	62	66	70	78	84	93
Minimum Permanent bending radius [mm]	E18a	116	124	132	140	156	168	186
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						

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Product Codes

Product Code	DoP Number*	Product Description	Fibre count	Fibre type	Fibre data sheet
		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 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 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 8 OM4B	8	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 OM5B	4	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR C ES9 8 OM5B	8	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR C ES9 12 OM5B	12	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR C ES9 24 OM5B	24	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR C ES9 4 SM7A1	4	OS2 – BendBright G.657.A1	C17
		UC ^{FIBRE} I/O DI LSHF-FR C ES9 8 SM7A1	8	OS2 – BendBright G.657.A1	C17
		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 4 SM7B	4	OS2 – BendBright ^{XS} G.657.A2	C24
		UC ^{FIBRE} I/O DI LSHF-FR C ES9 8 SM7B	8	OS2 – BendBright ^{XS} G.657.A2	C24
		UC ^{FIBRE} I/O DI LSHF-FR C ES9 12 SM7B	12	OS2 – BendBright ^{XS} G.657.A2	C24
		UC ^{FIBRE} I/O DI LSHF-FR C ES9 24 SM7B	24	OS2 – BendBright ^{XS} G.657.A2	C24

*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

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