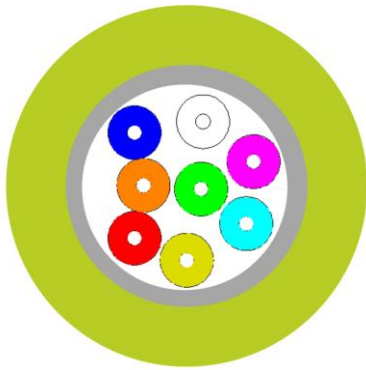


D37: UC^{FIBRE™} Universal Distribution Cable

Universal (indoor/outdoor) distribution or mini break-out cable with ES9 tight buffer, up to 24 fibres and FireRes[®] sheath, Class-B2_{ca} s1a-d1-a1 cable
VDE: U-VQ(ZN)BH



B2_{ca}
CPR

C_{ca}
CPR

D_{ca}
CPR

E_{ca}
CPR

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 B2ca 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 B2_{ca} s1a-d1-a1, Class-C_{ca}, Class D_{ca}, Class-E_{ca}

D37: UC^{FIBRE}™ Universal Distribution Cable

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 B2ca-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						
		2	4	6	8	12	16	24
Fibre count		2	4	6	8	12	16	24
Nominal diameter [mm]	-	7.5	7.5	7.5	8.0	8.3	8.8	9.4
Nominal weight [kg/km]	-	42	43	44	49	57	70	81
Maximum installation load (0.5% fibre strain) [N]	-	1500					2100	2400
Permanent tensile strength (0.25% fibre strain) [N]	E1	750					1050	1200
Impact [J]	E4	15 J						
Crush (compressive strength) [N / 100 mm]	E3	2000					1000	1000
Torsion	E7	5 cycles ± 1 turn						
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	E11	75		80	83	88	94	
Minimum bending radius under tension	E18A	150		160	170	180	190	
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		

D37: UC^{FIBRE}™ Universal Distribution Cable

Product Codes

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60064973	1006267	UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 2 OM3B	2	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 4 OM3B	4	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 6 OM3B	6	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 8 OM3B	8	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 12 OM3B	12	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 16 OM3B	16	MaxCap-BB-OM3	C31
60064974	1006250	UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 24 OM3B	24	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 4 OM4B	4	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 6 OM4B	6	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 12 OM4B	12	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 24 OM4B	24	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 4 OM5	4	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 6 OM5	6	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 8 OM5	8	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 12 OM5	12	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 24 OM5	24	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 12 SM7A1	12	OS2 BendBright G.657.A1	C17
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 24 SM7A1	24	OS2 BendBright G.657.A1	C17
60064972	1006266	UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 2 SM2D	2	OS2 G.652.D	C03
60060507	1006255	UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 24 SM2D	24	OS2 G.652.D	C03
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 12 SM7A1.P	12	OS2 BendBright G.657.A1, tight geometry	C38
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 24 SM7A1.P	24	OS2 BendBright G.657.A1, tight geometry	C38
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 12 SM7B	12	OS2 BendBrightXS G.657.A2	C24
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 24 SM7B	24	OS2 BendBrightXS G.657.A2	C24
		UC ^{FIBRE} I/O DI LSHF-FR B2 ES9 12 SM7B.P	12	OS2 BendBright ^{XS} G.657.A2, tight geometry	C25
		UC ^{FIBRE} I/O DI LSHF-FR B2 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

© PRYSMIAN GROUP 2017, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.