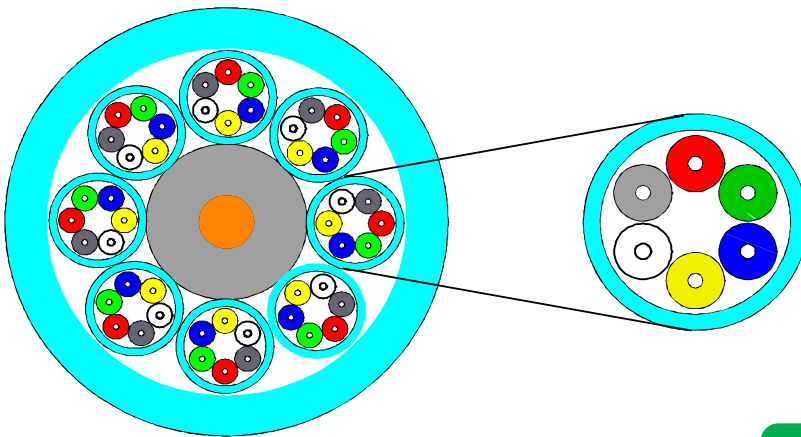


D38: UC^{FIBRE™} Universal Distribution B2ca Cable

**Indoor/Outdoor distribution B2_{ca} cable with ES9 tight buffer, up to 96 fibres, 6 fibres per unit, aramid yarns, water-blocking, glass yarns and FireRes[®] sheath.
VDE: U-VQ(ZN)HBH**



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.

The cable features an improved tight buffer.

Typical cable applications include: LAN and WAN backbones, central office interconnections, backbones in data centres, and many other.

The cable is suited for installation in ducts and on trays.

The cable is water-blocked and features an UV stabilised, water and moisture resistant FireRes[®] sheathing, the cable is thus well suited for shorter outdoor runs.

Glass yarns provide a degree of rodent protection.

It ensures high safety with its high flame resistance and CPR B2_{ca} approval.

Standards

EN 187 000, IEC 60794-2, IEC 60794-2-20, ISO 11801-1, EN 501 73-1:2002

Flame Resistance

EN 50399: Class B2_{ca} s1b-d1-a1, Class C_{ca}, Class D_{ca}, Class E_{ca}

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24, IEC 60754-2; IEC 61034

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Construction

Strength member	FRP rod with LSZH covering	
Fibre	36 - 96	
Unit	3.5 mm units with 6 tightly buffered fibres 900 µm ± 50 µm	
	1	Red
	2	Green
	3	Blue
	4	Yellow
	5	White
	6	Grey
	Aramid yarns Water-blocking sweallable thread Thin LSZH sheath in the same colours as the outer sheath, marked with unit number 1, 2, 3...	
Stranding	5 – 16 fibre units in one or two layers	
Water-blocking	Sweallable tape	
Strength member	Glass yarns as strength member and rodent protection	
Sheath colours	Cable with SM fibres	Yellow, RAL 1018
	Cable with M6-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
Sheath	FireRes® LSHF-FR fire retardant, UV stabilised, EN 50290-2-27	
Print legend	Draka UC ^{FIBRE} I/O B LSHF-FR ES9 3.5 <Fibre count> <Fibre type><Fibre brand><Item No><factory code><Batch Number><Meter mark> U-VQ(ZN)HBH >fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>	

Physical Properties

Attribute	IEC 60794-1- 21/22 Method	Limits							
		36	42	48	54	60	66	72	78-96
Fibre count	-	36	42	48	54	60	66	72	78-96
Nominal diameter [mm]	-	16.8	16.8	16.8	19.7	19.7	19.7	19.7	19.5
Nominal weight [kg/km]	-	340	345	350	430	435	440	445	365
Maximum installation load (few hours)	E1	5000	5000	5000	6200	6200	6200	6200	6600
Permanent tensile strength [N]	E1	1700	1700	1700	2100	2100	2100	2100	2200
Crush (compressive strength) [N/100 mm]	E3	3000							
Impact [J]	E4	20							
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 [mm] - permanent	E11	165	165	165	205	205	205	205	198
Minimum bending radius [mm] - installation		330	330	330	410	410	410	410	396
Temperature range	F1	Installation		-20°C to 60°C					
		Operation *)		-20°C to 60°C					
		Storage		-40°C to 70°C					
Water penetration	F5B	No water on free end							

D38: UC^{FIBRE™} Universal Distribution B2ca Cable

Product Codes

Product code	DoP Number*	Product description	Fibre count	Fibre type	Fibre data sheet
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 36 OM3 AQ	36	MaxCap-BB-OM3	C31
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 48 OM3 AQ	48	MaxCap-BB-OM3	C31
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 72 OM3 AQ	72	MaxCap-BB-OM3	C31
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 96 OM3 AQ	96	MaxCap-BB-OM3	C31
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 36 OM4 4003	36	MaxCap-BB-OM4	C32
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 48 OM4 4003	48	MaxCap-BB-OM4	C32
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 72 OM4 4003	72	MaxCap-BB-OM4	C32
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 96 OM4 4003	96	MaxCap-BB-OM4	C32
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 36 OM5 LG	36	WideCap-OM5	C39
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 48 OM5 LG	48	WideCap-OM5	C39
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 72 OM5 LG	72	WideCap-OM5	C39
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 96 OM5 LG	96	WideCap-OM5	C39
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 36 SM7A1 YL	36	OS2 – BendBright G.657.A1	C17
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 48 SM7A1 YL	48	OS2 – BendBright G.657.A1	C17
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 72 SM7A1 YL	72	OS2 – BendBright G.657.A1	C17
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 96 SM7A1 YL	96	OS2 – BendBright G.657.A1	C17
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 36 SM7B YL	36	OS2 – BendBright ^{XS} G.657.A2	C24
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 48 SM7B YL	48	OS2 – BendBright ^{XS} G.657.A2	C24
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 72 SM7B YL	72	OS2 – BendBright ^{XS} G.657.A2	C24
		UCFIBRE I/O B LSHF-FR B2 ES9 3.5 96 SM7B YL	96	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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