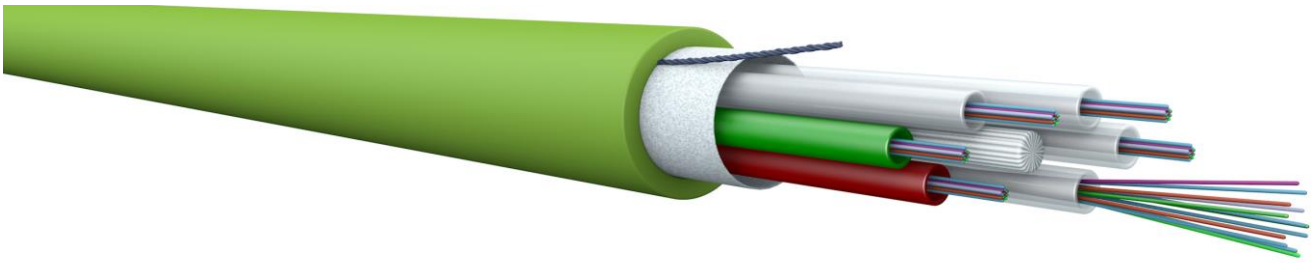
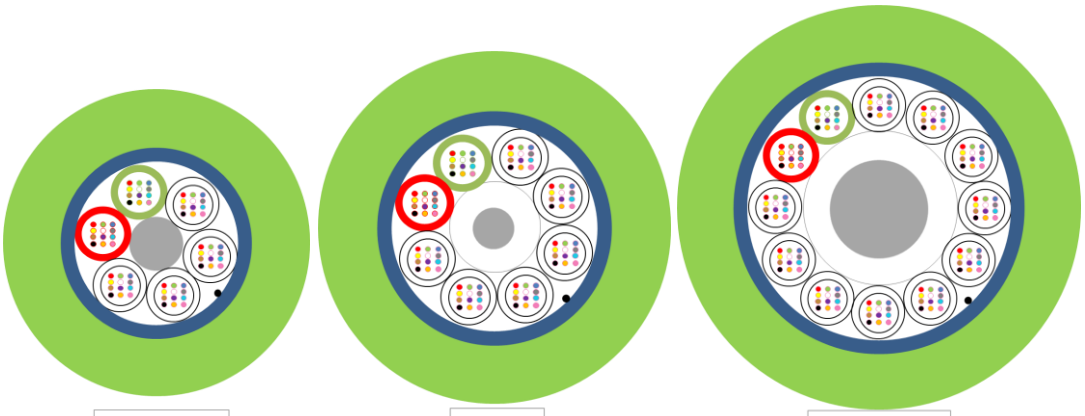
N11: UC$^{FIBRE™}$ Universal Stranded Loose Tube Non-Metallic Gel-Filled B2ca Cable

1800N, universal stranded, gel-filled, water-blocked loose tubes, B2ca-s1a-d1-a1 non-metallic cable with up to 288 fibres and FireRes® sheath. VDE: U-DQH





B2$_{ca}$ CPR | C$_{ca}$ CPR | D$_{ca}$ CPR | E$_{ca}$ CPR

Application and Installation

Universal indoor/outdoor cable for LAN, MAN and WAN backbones
With its FireRes® LSHF-FR sheathing this cable is ideal for mixed indoor and limited outdoor installation.
It is equally suited for installation in ducts and on trays.
This innovative cable is Class-B2ca approved, highly flame retardant with gel-filled tubes and water-blocked characteristics.

Standards

IEC 60794-1, IEC 60794-2, ISO 11801-1, EN 50173-1, EN 50575

Flame Resistance

LSHF (FRNC):	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$_{ca}$

Options

As standard this cable is provided with 12 or 24 fibres per tube, as an option other lower fibre counts are possible

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Construction

Central strength member	ø2.5 mm FRP rod	
Loose tube	For ≤ 144 fibres, ø2.3 mm gel-filled loose tubes, with 12 fibres each For > 144 fibres, ø2.8 mm gel-filled loose tubes, with 24 fibres each for lay-up refer to B04	
Water blocking	The core is water blocked using swellable tape and tread	
Ripcord	Polyester ripcord for easy slitting of the sheath	
Sheath	1.5 mm FireRes® sheath, halogen free, flame retardant, UV stabilised, IEC 50290-2-27	
Cable Sheath colours	Cable with SM fibres: BendBright^{XS} G.657.A2, BendBright G.657.A1	Yellow, RAL 1018
	Cable with mixed fibre types (hybrid)	Blue, RAL 5015
	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 marking	DRAKA UC^{FIBRE} I/O ST LSHF-FR B2ca-s1a-d1-a1 1.8 kN <Fibre count><Fibre type><Fibre brand> <Item No><Factory No><Batch Number><Meter mark> U-DQH <Number of Elements> x <Fibre count per element> <Fibre family> <Mode field diameter> /125 <Transmission Class>	

Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits							
Fibre count	-	12	24	36	48	72	96	144	288
Fibre distribution	-	1x12f	2x12f	3x12f	4x12f	6x12f	8x12f	12x12f	12x24f
Nominal diameter [mm]	-	10.6	10.6	10.6	10.6	10.6	11.8	15.2	17.9
Nominal weight [kg/km]	-	95	98	103	105	115	145	240	
Short term tensile strength [N]	E1	1800 (fibre strain ≤ 0.6%)							
Permanent tensile strength [N]	E1	600 (fibre strain ≤ 0.2%)							
Crush (compressive strength) [N/100 mm]	E3	2000							
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 of 12 times the cable nominal diameter							
Minimum Installation bending radius (loaded) [mm]	E18a	212	212	212	212	212	236	304	358
Minimum Permanent bending radius (unloaded) [mm]	E11	106	106	106	106	106	118	152	179
Temperature range	F1	Installation -40 °C to 70 °C Operation *) -40 °C to 70 °C Storage -40 °C to 70 °C							
Water penetration	F5	No water on free end							

*) The cables will operate without any attenuation variation (≤0.05 dB) in the temperature interval -30°C to +60°C.
The cables will operate with a maximum attenuation variation of 0.1dB/km in the temperature interval -40°C to +70°C.

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Product Codes

Product Code	DoP Number *	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60085464	1011607	UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 4x12 OM3B AQ	48	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 5x12 OM3B AQ	60	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 6x12 OM3B AQ	72	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 8x12 OM3B AQ	96	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x12 OM3B AQ	144	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x24 OM3B AQ	288	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 3x12 OM4B 4003	36	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 4x12 OM4B 4003	48	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 6x12 OM4B 4003	72	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 8x12 OM4B 4003	96	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x12 OM4B 4003	144	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x24 OM4B 4003	288	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 3x12 OM5B LG	36	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 4x12 OM5B LG	48	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 6x12 OM5B LG	72	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 8x12 OM5B LG	96	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x12 OM5B LG	144	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x24 OM5B LG	288	WideCap-OM5	C39
60066615	1007168	UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 1x12 SM7A1 YL	12	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 2x12 SM7A1 YL	24	OS2 BendBright G.657.A1	C17
60091770	1012038	UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 3x12 SM7A1 YL	36	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 4x12 SM7A1 YL	48	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 5x12 SM7A1 YL	60	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 6x12 SM7A1 YL	72	OS2 BendBright G.657.A1	C17
60091823	1012140	UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 8x12 SM7A1 YL	96	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x12 SM7A1 YL	144	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x24 SM7A1 YL	288	OS2 BendBright G.657.A1	C17
60075798	1008395	DR I/O ST LSHF-FR B2 1.8kN 8x12 SM7A1 BK	96	OS2 BendBright G.657.A1	C17
60087278	1011343	DR I/O ST LSHF-FR B2 1.8kN 12x12 SM7A1 BK	144	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 2x12 SM7B YL	24	OS2 BendBright^{XS} G.657.A2	C24
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 3x12 SM7B YL	36	OS2 BendBright^{XS} G.657.A2	C24
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 4x12 SM7B YL	48	OS2 BendBright^{XS} G.657.A2	C24
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 6x12 SM7B YL	72	OS2 BendBright^{XS} G.657.A2	C24
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 8x12 SM7B YL	96	OS2 BendBright^{XS} G.657.A2	C24
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x12 SM7B YL	144	OS2 BendBright^{XS} G.657.A2	C24
		UC^{FIBRE} I/O ST LSHF-FR B2 1.8kN 12x24 SM7B YL	288	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*