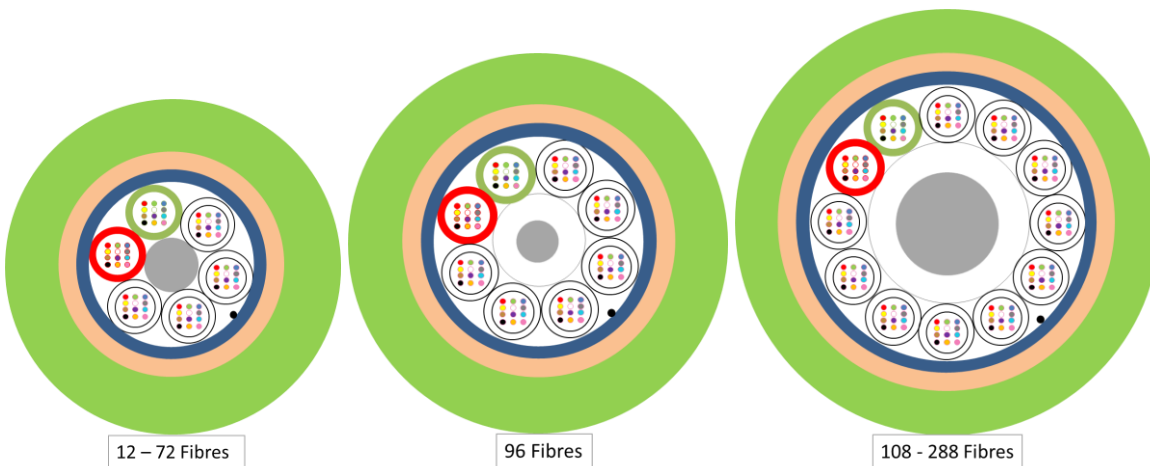
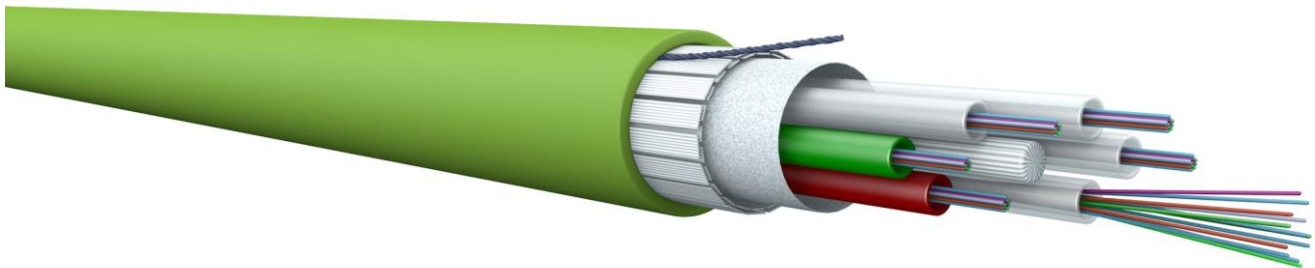


# N09: UC<sup>FIBRE™</sup> Universal Stranded Loose Tube Non-Metallic Gel-Filled B2ca 5kN Cable

**5000N, universal stranded, gel-filled, water-blocked loose tubes, B2ca-s1a-d1-a1 non-metallic cable with up to 288 fibres, glass yarns and FireRes<sup>®</sup> sheath. VDE: U-DQ(ZN)BH**



## Application and Installation

Universal indoor/outdoor cable for LAN, MAN and WAN backbones  
 Degree of rodent protection, effective in many cases  
 This innovative cable is Class-B2ca approved, highly flame retardant with gel-filled tubes and water-blocked characteristics.  
 With its FireRes<sup>®</sup> 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.

## 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-B2ca-s1a-d1-a1, Class-Cca, Class Dca, Class Eca

# N09: UC<sup>FIBRE</sup>™ Universal Stranded Loose Tube Non-Metallic Gel-Filled B2ca 5kN Cable

## Options

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

## 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		
Strength member	Glass yarns with rodent protection		
Ripcord	Polyester ripcord for easy slitting of the sheath		
Sheath	1.5 mm FireRes <sup>®</sup> sheath, halogen free, flame retardant, UV stabilised, IEC 50290-2-27		
Cable Sheath colours	Cable with SM fibres: BendBright <sup>XS</sup> 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 <sup>FIBRE</sup> I/O ST LSHF-FR B2ca-s1a-d1-a1 5.0 kN <Fibre count><Fibre type><Fibre brand> <Item No><Factory No><Batch Number><Meter mark> U-DQ(ZN)BH <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							
		12	24	36	48	72	96	144	288
Fibre count	-	12	24	36	48	72	96	144	288
Fibre distribution	-	1x12f	2x12f	3x12f	4x12f	6x12f	8x12f	12x12f	12x24f
Nominal diameter [mm]	-	11.2	11.2	11.2	11.2	11.2	12.8	15.6	18.5
Nominal weight [kg/km]	-	117	120	125	127	137	167	257	360
Short term tensile strength (dynamic) [N]	E1	5000 (fibre strain ≤ 0.6%)							
Permanent tensile strength (permanent) [N]	E1	1800 (fibre strain ≤ 0.2%)							
Crush (compressive strength) [N/100 mm]	E3	2500							
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 Installation bending radius (loaded) [mm]	-	224	224	224	224	224	256	312	370
Minimum Permanent bending radius (unloaded) [mm]	E11	112	112	112	112	112	128	156	185
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
60076787	1008793	UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 2x12 OM3B AQ	24	MaxCap-BB-OM3	C31
60085487	1011002	UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 4x12 OM3B AQ	48	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 5x12 OM3B AQ	60	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 6x12 OM3B AQ	72	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 8x12 OM3B AQ	96	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x12 OM3B AQ	144	MaxCap-BB-OM3	C31
60076785	1009577	UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x24 OM3B AQ	288	MaxCap-BB-OM3	C31
60078445	1008793	UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 2x12 OM4B 4003	24	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 3x12 OM4B 4003	36	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 4x12 OM4B 4003	48	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 6x12 OM4B 4003	72	MaxCap-BB-OM4	C32
60078446	1009640	UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 8x12 OM4B 4003	96	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x12 OM4B 4003	144	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x24 OM4B 4003	288	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 3x12 OM5B LG	36	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 4x12 OM5B LG	48	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 6x12 OM5B LG	72	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 8x12 OM5B LG	96	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x12 OM5B LG	144	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x24 OM5B LG	288	WideCap-OM5	C39
60076786	1008792	UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 2x12 SM2D/A1 YL	24	OS2 BendBright G.657.A1	C17
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 3x12 SM2D/A1 YL	36	OS2 BendBright G.657.A1	C17
60073614	1009567	UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 4x12 SM2D/A1 YL	48	OS2 BendBright G.657.A1	C17
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 5x12 SM2D/A1 YL	60	OS2 BendBright G.657.A1	C17
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 6x12 SM2D/A1 YL	72	OS2 BendBright G.657.A1	C17
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 8x12 SM2D/A1 YL	96	OS2 BendBright G.657.A1	C17
60077314	1009578	UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x12 SM2D/A1 YL	144	OS2 BendBright G.657.A1	C17
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x24 SM2D/A1 YL	288	OS2 BendBright G.657.A1	C17
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 2x12 SM7B YL	24	OS2 BendBright <sup>XS</sup> G.657.A2	C24
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 3x12 SM7B YL	36	OS2 BendBright <sup>XS</sup> G.657.A2	C24
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 4x12 SM7B YL	48	OS2 BendBright <sup>XS</sup> G.657.A2	C24
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 6x12 SM7B YL	72	OS2 BendBright <sup>XS</sup> G.657.A2	C24
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 8x12 SM7B YL	96	OS2 BendBright <sup>XS</sup> G.657.A2	C24
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x12 SM7B YL	144	OS2 BendBright <sup>XS</sup> G.657.A2	C24
		UC <sup>FIBRE</sup> I/O ST LSHF-FR B2 5kN 12x24 SM7B YL	288	OS2 BendBright <sup>XS</sup> 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](http://www.prysmiangroup.com/cpr)

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