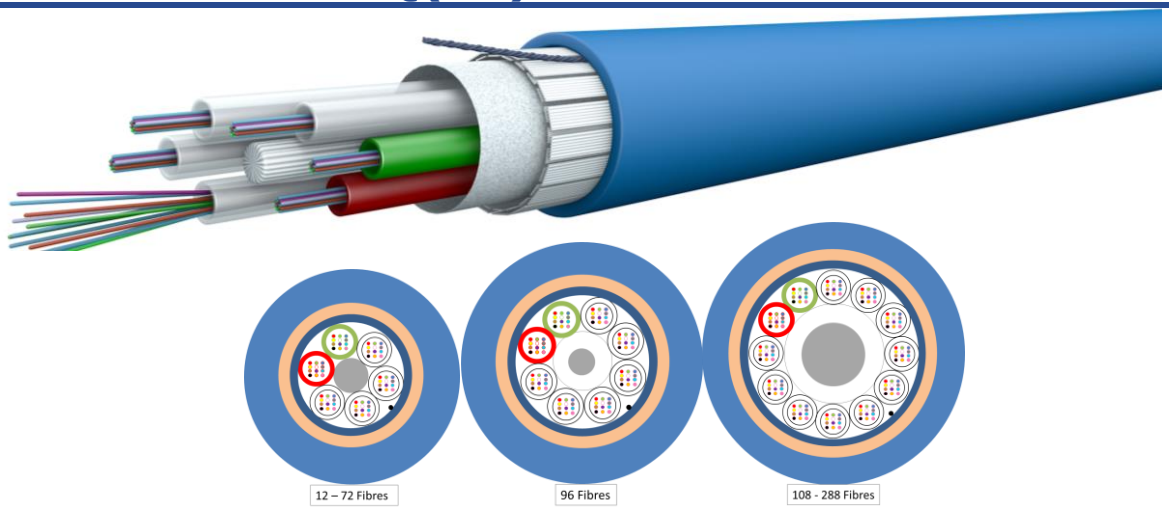
N05a: UC$^{FIBRE™}$ Universal Stranded Loose Tube Cable

5000N, universal stranded loose tube cable with up to 288 fibres, glass yarn reinforcement and FireBur® sheath. VDE: U-DQ(ZN)BH



E_{ca} CPR

Application and Installation

Universal indoor/outdoor cable for LAN, MAN and WAN backbones
Directly installation in the ground
Degree of rodent protection, effective in many cases

Standards

ISO 11801-1, IEC 60794-1, IEC 60794-2, EN 50 173-1, EN 50575

Flame Resistance

LSHF (FRNC): IEC 60332-1-2, IEC 60754-2, IEC 61034, Class E_{ca}

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Construction

Central strength member	ø2.5 mm FRP rod
Lose 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 swell able tape and tread
Wrapping	Polyester nonwoven
Reinforcement	Layer of glass fibre yarns as reinforcement and rodent protection
Ripcord	Polyester ripcord for easy slitting of the sheath
Sheath	Blue, 1.5 mm FireBur® sheath, halogen free, UV stabilised, IEC 50290-2-27
Sheath marking	DRAKA UC^{FIBRE} I/O ST LSHF 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							
Fibre count	-	12	24	48	72	96	120	144	288
Fibre Distribution		1x12f	2x12f	4x12f	6x12f	8x12f	10x12f	12x12f	24x12f
Nominal diameter [mm]	-	11.2	11.2	11.2	11.2	12.8	15.6	15.6	18.5
Nominal weight [kg/km]	-	100	104	105	130	165	205	205	260
Short term tensile strength (some days) [N]	E1	5000 (fibre strain ≤ 0.6%)							
Permanent tensile strength [N]	E1	1800 (fibre strain ≤ 0.2%)							
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 – Permanent (unloaded) [mm]	E11	112	112	112	112	128	156	156	185
Minimum bending radius – Installation (loaded) [mm]		224	224	224	224	256	312	312	370
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							
Heat of Combustion (MJ/km)		2170	2142	2085	2028	2805	4890	4833	5961

*) 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
60029708		UC^{FIBRE} I/O ST LSHF 5.0kN 1x12 OM2B	12	MaxCap-BB-OM2	C34
60019425		UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 OM2B	24	MaxCap-BB-OM2	C34
60019424	1004762	UC^{FIBRE} I/O ST LSHF 5.0kN 3x12 OM2B	36	MaxCap-BB-OM2	C34
60011365	1004287	UC^{FIBRE} I/O ST LSHF 5.0kN 4x12 OM2B	48	MaxCap-BB-OM2	C34
60019426	1004281	UC^{FIBRE} I/O ST LSHF 5.0kN 8x12 OM2B	96	MaxCap-BB-OM2	C34
60019427	1004282	UC^{FIBRE} I/O ST LSHF 5.0kN 12x12 OM2B	144	MaxCap-BB-OM2	C34
60018837	1004739	UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 OM3B	24	MaxCap-BB-OM3	C31
60019773		UC^{FIBRE} I/O ST LSHF 5.0kN 3x12 OM3B	36	MaxCap-BB-OM3	C31
60011424	1004736	UC^{FIBRE} I/O ST LSHF 5.0kN 4x12 OM3B	48	MaxCap-BB-OM3	C31
60025070		UC^{FIBRE} I/O ST LSHF 5.0kN 5x12 OM3B	60	MaxCap-BB-OM3	C31
60019596		UC^{FIBRE} I/O ST LSHF 5.0kN 6x12 OM3B	72	MaxCap-BB-OM3	C31
60018840	1002501	UC^{FIBRE} I/O ST LSHF 5.0kN 8x12 OM3B	96	MaxCap-BB-OM3	C31
60018855	1004742	UC^{FIBRE} I/O ST LSHF 5.0kN 12x12 OM3B	144	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF 5.0kN 12x24 OM3B	288	MaxCap-BB-OM3	C31
60020485	1002082	UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 OM4B	24	MaxCap-BB-OM4	C32
60020328	1027718	UC^{FIBRE} I/O ST LSHF 5.0kN 4x12 OM4B	48	MaxCap-BB-OM4	C32
60019622	1023172	DR I/O ST LSHF 5.0 KN 48 MM54 4003	48	MaxCap-BB-OM4	C32
60024963	1005541	UC^{FIBRE} I/O ST LSHF 5.0kN 6x12 OM4B	72	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 OM5	24	WideCap-OM5	C39
60055102	1002544	UC^{FIBRE} I/O ST LSHF 5.0kN 4x12 OM5	48	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF 5.0kN 6x12 OM5	72	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF 5.0kN 8x12 OM5	96	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF 5.0kN 12x12 OM5	144	WideCap-OM5	C39
60029315	1004794	UC^{FIBRE} I/O ST LSHF 5.0kN 1x12 SM2D	12	OS2 G.652.D	C06e
60018836	1001587	UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 SM2D	24	OS2 G.652.D	C06e
60037483		UC^{FIBRE} I/O ST LSHF 5.0kN 4x6 SM2D	24	OS2 G.652.D	C06e
60019600		UC^{FIBRE} I/O ST LSHF 5.0kN 3x12 SM2D	36	OS2 G.652.D	C06e
60018839	1001588	UC^{FIBRE} I/O ST LSHF 5.0kN 4x12 SM2D	48	OS2 G.652.D	C06e
60025069		UC^{FIBRE} I/O ST LSHF 5.0kN 5x12 SM2D	60	OS2 G.652.D	C06e
60011426	1001583	UC^{FIBRE} I/O ST LSHF 5.0kN 6x12 SM2D	72	OS2 G.652.D	C06e
60019688	1002080	UC^{FIBRE} I/O ST LSHF 5.0kN 8x12 SM2D	96	OS2 G.652.D	C06e
60019469	1002504	UC^{FIBRE} I/O ST LSHF 5.0kN 12x12 SM2D	144	OS2 G.652.D	C06e
		UC^{FIBRE} I/O ST LSHF 5.0kN 12x24 SM2D	288	OS2 G.652.D	C06e
		UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 SM7A1	24	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF 5.0kN 4x12 SM7A1	48	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF 5.0kN 6x12 SM7A1	72	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF 5.0kN 8x12 SM7A1	96	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF 5.0kN 12x12 SM7A1	144	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF 5.0kN 12x24 SM7A1	288	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 SM7B	24	OS2 BendBright^{XS} G.657.A2	C24
		UC^{FIBRE} I/O ST LSHF 5.0kN 3x12 SM7B	36	OS2 BendBright^{XS} G.657.A2	C24
		UC^{FIBRE} I/O ST LSHF 5.0kN 4x12 SM7B	48	OS2 BendBright^{XS} G.657.A2	C24
60018870		UC^{FIBRE} I/O ST LSHF 5.0kN 1x12 SM2D 1x12 OM2B	24	Hybrid 12 OS2 G.652.D + 12 MaxCap-BB-OM2	C06e + C34
60019405	1004761	UC^{FIBRE} I/O ST LSHF 5.0kN 1x12 SM2D 1x12 OM3B	24	Hybrid 12 OS2 G.652.D + 12 MaxCap-BB-OM3	C06e + C31
60044409		UC^{FIBRE} I/O ST LSHF 5.0kN 1x12 SM2D 1x12 OM4B	24	Hybrid 12 OS2 G.652.D + 12 MaxCap-BB-OM4	C06e + C32

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60025646		UC^{FIBRE} I/O ST LSHF 5.0kN 3x12 SM2D 1x12 OM2B	48	Hybrid 36 OS2 G.652.D + 12 MaxCap-BB-OM2	C06e + C34
60026887	1004792	UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 SM2D 2x12 OM4B	48	Hybrid 24 OS2 G.652.D + 24 MaxCap-BB-OM4	C06e + C32
60026598	1006946	UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 SM2D 2x12 OM3B	48	Hybrid 24 OS2 G.652.D + 24 MaxCap-BB-OM3	C06e + C31
60020121		UC^{FIBRE} I/O ST LSHF 5.0kN 2x12 SM2D 2x12 OM2B	48	Hybrid 24 OS2 G.652.D + 24 MaxCap-BB-OM2	C06e + C31
60032491		UC^{FIBRE} I/O ST LSHF 5.0kN 4x12 SM2D 4x12 OM2B	96	Hybrid 48 OS2 G.652.D + 48 MaxCap-BB-OM2	C06e + C31
60064937	1006213	UC^{FIBRE} I/O ST LSHF 5.0kN 4x12 SM2D 4x12 OM4B	96	Hybrid 48 OS2 G.652.D + 48 MaxCap-BB-OM4	C06e + C31

**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*