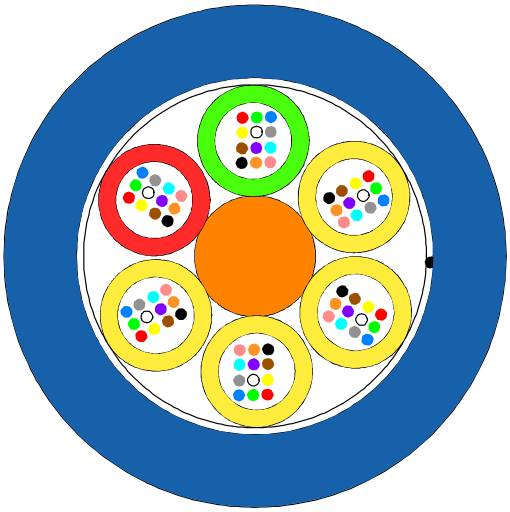
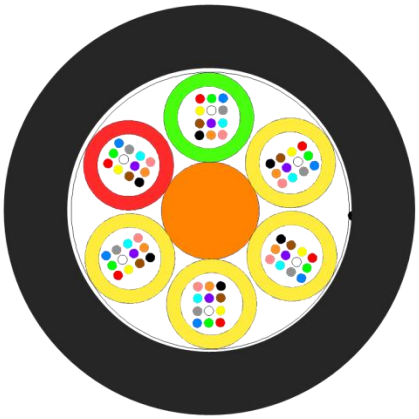
N01a: UC$^{FIBRE™}$ Universal Stranded Loose Tube Cable

Stranded loose tube cable with up to 288 fibres, FireBur® sheath. VDE: U-DQH





OPTIONAL BLACK SHEATH

E_{ca} CPR

Application and Installation

This is a Universal indoor/outdoor cable for application as a trunk cable in LAN, MAN and WAN backbones.
The cable can be installed ducts and on cable trays. The cable may be installed directly in the ground with proper sand filling.

Standards

EN 187 000, IEC 60794-2, IEC 60794-2-20, IEC 60794-2-21, ISO 11801-1, EN 50 173-1

Flame Resistance

LSHF: IEC 60332-1-2; IEC 60754-1; IEC 60754-2; IEC 61034-2; Class E_{ca}

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Construction

Central strength member	ø2.5 mm FRP rod			
Fibre colour code	1	Red	7	Brown
	2	Green	8	Violet
	3	Blue	9	Turquoise
	4	Yellow	10	Black
	5	White	11	Orange
	6	Grey	12	Pink
Lose tube	ø2.3 mm gel-filled loose tubes Up to 12 fibres/tube for ≤ 144 fibres, 24 fibres/tube for > 144 fibres Up to 12 tubes in 1 layer, for lay-up refer to B04			
Water blocking	The core is water blocked using swelling tape and tread			
Wrapping	Polyester nonwoven			
Ripcord	Polyester ripcord for easy slitting of the sheath			
Sheath	1.5 mm blue (black optional) FireBur®, halogen free. Flame resistant thermoplastic sheathing compound according to EN 50290-2-27, UV stabilized			
Print legend	Draka UC^{FIBRE} I/O ST LSHF 1.8 kN <Number of Elements> x <Fibre count per element> <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	48	72	96	120	144	192	288
Fibre distribution		1x12f	4x12f	6x12f	8x12f	10x12f	12x12f	8x24f	12x24f
Nominal diameter [mm]	-	10.5	10.5	10.5	12.0	13.5	15.0	12.0	15.0
Nominal weight [kg/km]	-	85	88	90	125	155	190	195	210
Short term tensile strength (some days) [N]	E1	1800 (fibre strain ≤ 0.5%)							
Permanent tensile strength [N]	E1	1200 (fibre strain ≤ 0.25%)							
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] – short term	E11	105	105	105	120	135	150	120	150
Minimum bending radius [mm] – permanent		210	210	210	240	270	300	240	300
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] [kWh/m]	-		1900 0.53	2600 0.72	3400 0.94	4300 1.19			

*) 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
60072491	1007943	UC^{FIBRE} I/O ST LSHF 1.8 kN 4x12 OM2B	48	MaxCap-BB-OM2	C34
		UC^{FIBRE} I/O ST LSHF 1.8 kN 4x12 OM3B	48	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF 1.8 kN 6x12 OM3B	72	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF 1.8 kN 8x12 OM3B	96	MaxCap-BB-OM3	C31
		UC^{FIBRE} I/O ST LSHF 1.8 kN 12x12 OM3B	144	MaxCap-BB-OM3	C31
60019790		UC^{FIBRE} I/O ST LSHF 1.8 kN 4x12 OM4B	48	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF 1.8 kN 6x12 OM4B	72	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF 1.8 kN 8x12 OM4B	96	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF 1.8 kN 12x12 OM4B	144	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O ST LSHF 1.8 kN 2x12 OM5	24	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF 1.8 kN 4x12 OM5	48	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF 1.8 kN 6x12 OM5	72	WideCap-OM5	C39
		UC^{FIBRE} I/O ST LSHF 1.8 kN 8x12 OM5	96	WideCap-OM5	C39
60037500	1005492	UC^{FIBRE} I/O ST LSHF 1.8 kN 1x12 SM2D	12	OS2 G.652.D	C06e
60019392	1006900	UC^{FIBRE} I/O ST LSHF 1.8 kN 2x12 SM2D	24	OS2 G.652.D	C06e
60037503		UC^{FIBRE} I/O ST LSHF 1.8 kN 4x6 SM2D	24	OS2 G.652.D	C06e
60026285	1002081	UC^{FIBRE} I/O ST LSHF 1.8 kN 4x12 SM2D	48	OS2 G.652.D	C06e
60037520	1004797	UC^{FIBRE} I/O ST LSHF 1.8 kN 6x12 SM2D	72	OS2 G.652.D	C06e
60019394	1002496	UC^{FIBRE} I/O ST LSHF 1.8 kN 8x12 SM2D	96	OS2 G.652.D	C06e
60045388		UC^{FIBRE} I/O ST LSHF 1.8 kN 11x12 SM2D	132	OS2 G.652.D	C06e
60020128		UC^{FIBRE} I/O ST LSHF 1.8 kN 12x12 SM2D	144	OS2 G.652.D	C06e
60049567	1002542	UC^{FIBRE} I/O ST LSHF 1.8 kN 4x12 SM2D BK	48	OS2 G.652.D	C06e
60048463	1004808	UC^{FIBRE} I/O ST LSHF 1.8 kN 8x12 SM2D BK	96	OS2 G.652.D	C06e
60020239		UC^{FIBRE} I/O ST LSHF 1.8 kN 12x12 SM2D BK	144	OS2 G.652.D	C06e
60066458	1006993	UC^{FIBRE} I/O ST LSHF 1.8 kN 12x24 SM2D BK	288	OS2 G.652.D	C06e
60046154		UC^{FIBRE} I/O ST LSHF 1.8 kN 4x12 SM7A1	48	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF 1.8 kN 6x12 SM7A1	72	OS2 BendBright G.657.A1	C17
60066412	1006913	UC^{FIBRE} I/O ST LSHF 1.8 kN 8x12 SM7A1 BK	96	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF 1.8 kN 12x12 SM7A1	144	OS2 BendBright G.657.A1	C17
		UC^{FIBRE} I/O ST LSHF 1.8 kN 12x24 SM7A1	288	OS2 BendBright G.657.A1	C17

**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*