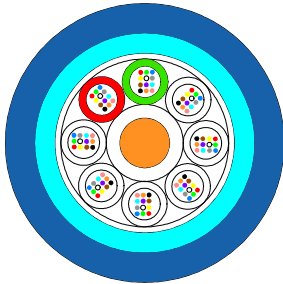


N02a: UC^{FIBRE™} Universal Stranded Loose Tube Cable

6000N, stranded loose tube cable with up to 288 fibres, glass yarn reinforcement, FireBur® sheath. VDE: U-DQ(ZN)BH



Application and Installation

Universal (indoor/outdoor) cable, for LAN, MAN and WAN backbones. Suitable for installation directly in the ground. A heavy layer of glass yarns gives this cable a degree of rodent protection, effective in most cases.

Standards

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

Flame Resistance

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

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
Loose 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 swellable tape and tread	
Wrapping	Polyester nonwoven	
Reinforcement	Heavy layer of glass fibre yarns as reinforcement and rodent protection, effective in most cases.	
Ripcord	Polyester ripcord for easy slitting of the sheath	
Sheath	1.5 mm blue FireBur®, UV stabilized, EN 50290-2-27	
Print legend	Draka UC ^{FIBRE} I/O ST LSHF 6.0 kN <Fibre count> <Fibre type><Fibre brand> <Item No><Factory Code><Batch Number><Meter mark> U-DQ(ZN)BH <Fibre count> x <Fibre count per element> <Fibre family> <Mode field diameter> /125 <Transmission Class>	

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Physical Properties

Attribute	IEC 60794-1- 21/22 Method	Limits						
		12	48	72	96	120	144	288
Fibre count	-	12	48	72	96	120	144	288
Fibre distribution		1x12f	4x12f	6x12f	8x12f	10x12f	12x12f	12x24f
Nominal diameter [mm]	-	13	13	13	14.5	16	17.5	17.5
Nominal weight [kg/km]	-	140	140	145	180	230	270	280
Short term tensile strength (some days) [N]	E1	6000 (fibre strain ≤ 0.5%)						
Permanent tensile strength [N]	E1	4000 (fibre strain ≤ 0.25%)						
Crush (compressive strength) [N/100 mm]	E3	3000						
Impact [J]	E4	25						
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	130	130	130	145	160	175	175
Minimum bending radius [mm] – permanent		260	260	260	290	320	350	350
Temperature range	F1	Installation 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.

Product Codes

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60026544		UC ^{FIBRE} I/O ST LSHF 6.0kN 20x12 SM2D BL	240	OS2 Singlemode G652.D	C06e
60045872		UC ^{FIBRE} I/O ST LSHF 6.0kN 8x12 SM2D BL	96	OS2 Singlemode G652.D	C06e
		UC ^{FIBRE} I/O ST LSHF 6.0kN 4x12 OM3B BL	48	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST LSHF 6.0kN 6x12 OM3B BL	72	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST LSHF 6.0kN 4x12 OM4B BL	48	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST LSHF 6.0kN 6x12 OM4B BL	72	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST LSHF 6.0kN 4x12 OM4BW BL	48	WideCap-BB-OM4W	C39
		UC ^{FIBRE} I/O ST LSHF 6.0kN 6x12 OM4BW BL	72	WideCap-BB-OM4W	C39

*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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