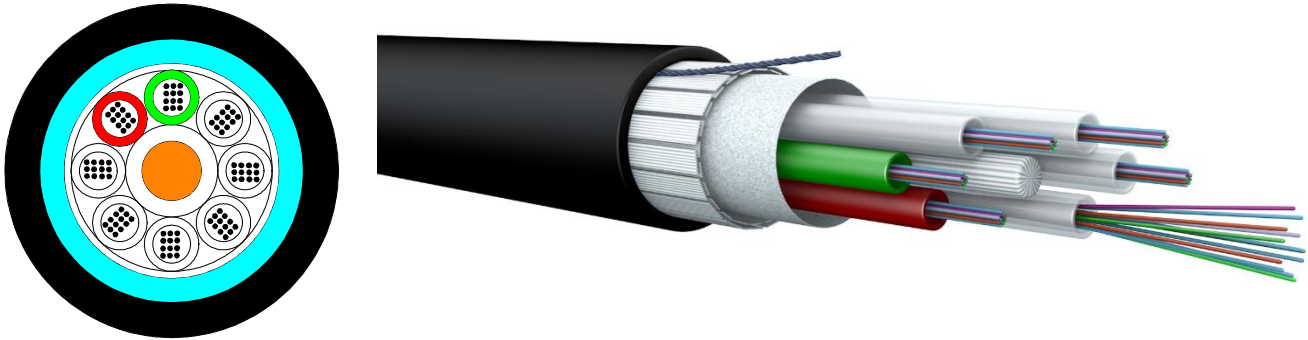


H07a: UC^{FIBRE™} Stranded outdoor loose tube cable

9000N Stranded loose tube cable with up to 288 fibres, glass yarn reinforcement and black PE Sheath. VDE: A-DQ(ZN)B2Y



Application and installation

Outdoor cable for LAN, MAN and telecom backbones
Directly installation in the ground
Rodent protection, effective in many cases

Standards

EN 187 000, IEC 60794-3, IEC 60794-3-10, IEC 60794-3-12, ISO 11801-1, EN 50 173-1

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 yarn			
Wrapping	Swellable tape			
Reinforcement	Heavy layer of glass fibre yarns as reinforcement and rodent protection, effective in most cases.			
Ripcord	Polyester ripcord for easy slitting the sheath			
Sheath	1.5 mm black MDPE, IEC 60811, IEC 60708			
Sheath marking	Draka UC ^{FIBRE} O ST PE 9.0 kN <Fibre count> <Fibre type><Fibre brand> <Item No><Factory Code><Batch Number><Meter mark> A-DQ(ZN)B2Y <Number of Elements> x <Fibre count> <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	144	192	288
Fibre count		12	48	72	96	144	192	288
Fibre Distribution		1x12f	4x12f	6x12f	8x12f	12x12f	8x24f	12x24f
Nominal diameter [mm]		13	13	13	14.5	17.5	14.5	17.5
Nominal weight [kg/km]		135	140	140	170	260	170	260
Short term tensile strength [N]	E1	9000 (fibre strain ≤ 0.6%) (±0.1 dB/km attenuation change during test) (8000 N with no attenuation change)						
Permanent tensile strength [N]	E1	3000 (fibre strain ≤ 0.2%)						
Crush (compressive strength) [N/100 mm]	E3	3000						
Impact [J]	E4	30						
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] – permanent	E11	130	130	130	145	175	145	175
Minimum bending radius [mm] – short term (installation)		260	260	260	290	350	290	350
Temperature range	F1	Operation *) and Installation -40 °C to 70 °C Storage -40 °C to 70 °C						
Water penetration	F5	No water on free end						

*) The cable can bear temperature cycling between -40 °C to 70 °C. The cable will operate without any attenuation variation (<0.05 dB) in the temperature range -30 °C to 60 °C. The cable will operate with a maximum attenuation variation of ±0.1 dB/km in the interval -40 °C to 70 °C

Product codes – ordering information

Product code	Product description	Fibre count	Fibre type	Fibre data sheet
60020263	UC ^{FIBRE} O ST PE 9kN 1x12 SM2D	12	OS2 G.652.D	C06e
60018795	UC ^{FIBRE} O ST PE 9kN 2x12 SM2D	24	OS2 G.652.D	C06e
60018824	UC ^{FIBRE} O ST PE 9kN 6x6 SM2D	36	OS2 G.652.D	C06e
60018796	UC ^{FIBRE} O ST PE 9kN 4x12 SM2D	48	OS2 G.652.D	C06e
	UC ^{FIBRE} O ST PE 9kN 12x24 SM2D	288	OS2 G.652.D	C06e
	UC ^{FIBRE} O ST PE 9kN 1x12 SM7A1	12	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} O ST PE 9kN 2x12 SM7A1	24	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} O ST PE 9kN 4x12 SM7A1	48	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} O ST PE 9kN 6x12 SM7A1	72	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} O ST PE 9kN 8x12 SM7A1	96	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} O ST PE 9kN 12x12 SM7A1	144	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} O ST PE 9kN 12x24 SM7A1	288	OS2 BendBright G.657.A1	C17

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