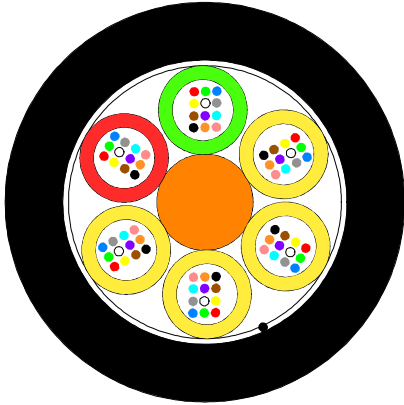


F07a: UC^{FIBRE™} Outdoor stranded loose tube cable

Stranded loose tube cable with up to 288 fibres and black PE sheath, VDE: A-DQ2Y



Application and installation

LAN, WAN backbones, Installation in ducts.

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			
Ripcord	Polyester ripcord for easy slitting the sheath			
Sheath	1.5 mm black MDPE, IEC 60811, IEC 60708			
Sheath marking	Draka UCFIBRE O ST PE 1.8 kN <Fibre count> <Fibre type><Fibre brand> <Item No><Factory Code><Batch Number><Meter mark> A-DQ2Y <Number of Elements> 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	144	192	288
Fibre count		12	48	72	96	144	192	288
Fibre Distribution		1x12f	4x12f	6x12f	8x12f	12x12f	8x24f	12x24f
Nominal diameter [mm]	-	10.5	10.5	10.5	12.0	15.0	12.0	15.0
Nominal weight [kg/km]	-	85	88	90	115	180	120	190
Short term tensile strength (some days) [N]	E1	1800 (fibre strain ≤ 0.5%)						
18Permanent 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	150	120	150
Minimum bending radius [mm] -permanent		210	210	210	240	300	240	300
Temperature range	F1	Operation *) and Installation -40 °C to 70 °C Storage -40 °C to 70 °C						
Water penetration	F5	Pass						

*) 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
	UC ^{FIBRE™} O ST PE 1.8kN 1x12 SM7A1	12	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE™} O ST PE 1.8kN 4x12 SM7A1	48	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE™} O ST PE 1.8kN 12x12 SM7A1	144	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE™} O ST PE 1.8kN 12x24 SM7A1	288	OS2 BendBright G.657.A1	C17
60019291	UC ^{FIBRE™} O ST PE 1.8kN 1x12 SM2D	12	OS2 G.652.D	C06
60032589	UC ^{FIBRE™} O ST PE 1.8kN 2x12 SM2D	24	OS2 G.652.D	C06
60019657	UC ^{FIBRE™} O ST PE 1.8kN 6x8 SM2D	48	OS2 G.652.D	C06
60047875	UC ^{FIBRE™} O ST PE 1.8kN 4x12 SM2D	48	OS2 G.652.D	C06
60026572	UC ^{FIBRE™} O ST PE 1.8kN 8x12 SM2D	96	OS2 G.652.D	C06
60019431	UC ^{FIBRE™} O ST PE 1.8kN 12x12 SM2D	144	OS2 G.652.D	C06
60019976	UC ^{FIBRE™} O ST PE 1.8kN 60 SM2D 12 SM7B	72	Hybrid 60 OS2 G.652.D + 12 OS2 BendBright ^{XS} G.657.A2	C06+C24

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