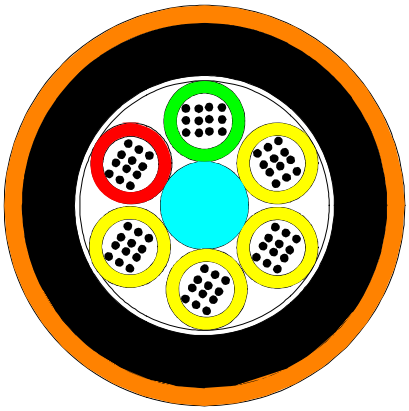
G07c: UC$^{FIBRE™}$ Outdoor stranded loose tube cable

Stranded loose tube cable with up to 312 fibres, black PE sheath; orange PA oversheath. VDE A-DQ2Y 4Y



Application and installation

This cable can be used for a wide range of outdoor applications among them: Outdoor data communication connections, telecom trunk lines, telecom access and distribution lines and CATV trunk lines.

The low friction coefficient of the PA surface gives greatly improved flooding distances during flooding of cables into ducts. In addition improved blowing distances are obtained. The hard surface of the PA 12 jacket gives the cable a degree of rodent protection, effective in many cases. PA 12 is halogen free.

Standards

EN 187 000, IEC 60794-3, IEC 60794-3-10, IEC 60794-3-12, ISO 11801 2nd edition, EN 50 173-1

Options

As standard this cable is provided with 12 fibres per tube, as an option other lower fibre counts are possible

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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
Loose tube	ø2.3 mm jelly filled loose tubes, with 2 – 12 fibres each, up to 26 tubes in two layers, 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			
Oversheath	0.5 mm orange PA 12			
Sheath marking	Draka UCFIBRE O ST D DA PE PA 1.8 kN <Fibre count> <Fibre type><Fibre brand> <Item No>05<Batch Number><Meter mark> A- DQ-2Y4Y <Number of Elements> x <Fibre count per element> <Fibre family> <Mode field diameter> /125 <Transmission Class>			

Physical properties

Attribute	IEC 60794-1-2 Method	Limits							
Fibre count		72	96	120	144	168	216	264	312
Nominal diameter [mm]		11.5	13.0	14.5	16.0	17.5	16.0	18.0	19.5
Nominal weight [kg/km]		105	135	170	205	245	205	260	270
Short term tensile strength (some days) [N]	E1	1800 N							
Permanent tensile strength [N]	E1	1200 N							
Crush (compressive strength) [N/100 mm]	E3	3000N							
Impact [J]	E4	20 Nm							
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]	E11	170	195	220	240	260	240	270	300
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

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[PRODUCT CODE TABLE]

Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Draka Material code	Fibre count	Fibre type	Fibre data sheet
	UC^{FIBRE} O ST D DA PE PA 1.8 kN 24 SM2D	1028730	24	OS2 Single mode G652.D	C06e
	UC^{FIBRE} O ST D DA PE PA 1.8 kN 48 SM2D	1026331	48	OS2 Single mode G652.D	C06e
	UC^{FIBRE} O ST D DA PE PA 1.8 kN 72 SM2D	1027157	72	OS2 Single mode G652.D	C06e
	UC^{FIBRE} O ST D DA PE PA 1.8 kN 96 SM2D	1027158	96	OS2 Single mode G652.D	C06e
	UC^{FIBRE} O ST D DA PE PA 1.8 kN 144 SM2D	1022049	144	OS2 Single mode G652.D	C06e
	UC^{FIBRE} O ST D DA PE PA 1.8 kN 288 SM2D	1020734	288	OS2 Single mode G652.D	C06e