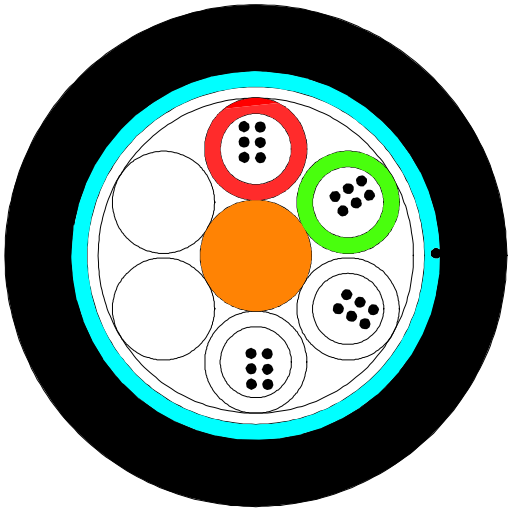
UC$^{FIBRE™}$ O ST D DA PE 5.0 kN

Stranded loose tube cable w. 6 – 264 fibres and 6, 8 or 12 fibres per tube, glass yarns and black MDPE Sheath

DIN/VDE A-DQ(ZN)B2Y NO FR DK



Application and Installation

Outdoor cable for LAN, MAN and telecom backbones
Directly installation in the ground
High tensile strength

Standards

EN 187 000
IEC 60794-3
IEC 60794-3-10
IEC 60794-3-12
ISO 11801 2nd edition
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
Lose tube	ø2.3 mm jelly filled loose tubes, with 6 – 12 fibres each, up to 18 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			

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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

Fire rating

None

Physical properties

IEC 60974-1-2

Property	Test method	Value
Tensile strength (dynamic)	E1	5000 N
Tensile strength (permanent)	E1	3500 N
Compressive strength (crush)	E3	3000 N
Impact	E4	25 Nm
Torsion	E7	5 cycles ± 1 turn
Kink	E10	The cable do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter
Temperature range	F1	The cables can bear temperature cycling between -40 °C to +70 °C. 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 0.1 dB/km in the temperature interval -40°C to +70°C.
Water penetration	F5	No water on free end

Mechanical properties

Fibre count; 6 fibre/tube	Fibre count; 8 fibre/tube	Fibre count; 12 fibre/tube	Nominal diameter	Nominal cable weight	Minimum bending radius
6-36	8-48	12-72	11 ± 0.5 mm	105 kg/km	150 mm
42-48	56-64	84-96	13 ± 0.5 mm	140 kg/km	175 mm
54-60	72-80	108-120	14 ± 0.5 mm	170 kg/km	190 mm
66-72	88-96	132-144	16 ± 0.5 mm	205 kg/km	220 mm
78-108	104-144	156-216	16 ± 0.5 mm	195 kg/km	220 mm

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Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1021816	24 (2 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 24 MM51	OM2 50/125 multi mode 500/500	C23
1021817	48 (4 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 48 MM51	OM2 50/125 multi mode 500/500	C23
1021818	96 (8 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 96 MM51	OM2 50/125 multi mode 500/500	C23
1021819	120 (10 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 120 MM51	OM2 50/125 multi mode 500/500	C23
1017213	24 (2 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 24 MM52	OM2 50/125 multi mode 600/1200	C01a
1017216	48 (4 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 48 MM52	OM2 50/125 multi mode 600/1200	C01a
1019169	96 (8 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 96 MM52	OM2 50/125 multi mode 600/1200	C01a
1019170	120 (10 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 120 MM52	OM2 50/125 multi mode 600/1200	C01a
1018519	8 (1 x 8)	UCFIBRE™ O ST D DA PE 5.0 kN 8 MM61	OM1 62.5/125 multi mode	C02
1017214	24 (4 x 6)	UCFIBRE™ O ST D DA PE 5.0 kN 24 SM2D	OS2 Single mode	C06e
1017463	24 (2 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 24 SM2D	OS2 Single mode	C06e
1017215	36 (6 x 6)	UCFIBRE™ O ST D DA PE 5.0 kN 36 SM2D	OS2 Single mode	C06e
1017464	48 (4 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 48 SM2D	OS2 Single mode	C06e
1020190	96 (8 x 12)	UCFIBRE™ O ST D DA PE 5.0 kN 96 SM2D	OS2 Single mode	C06e

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