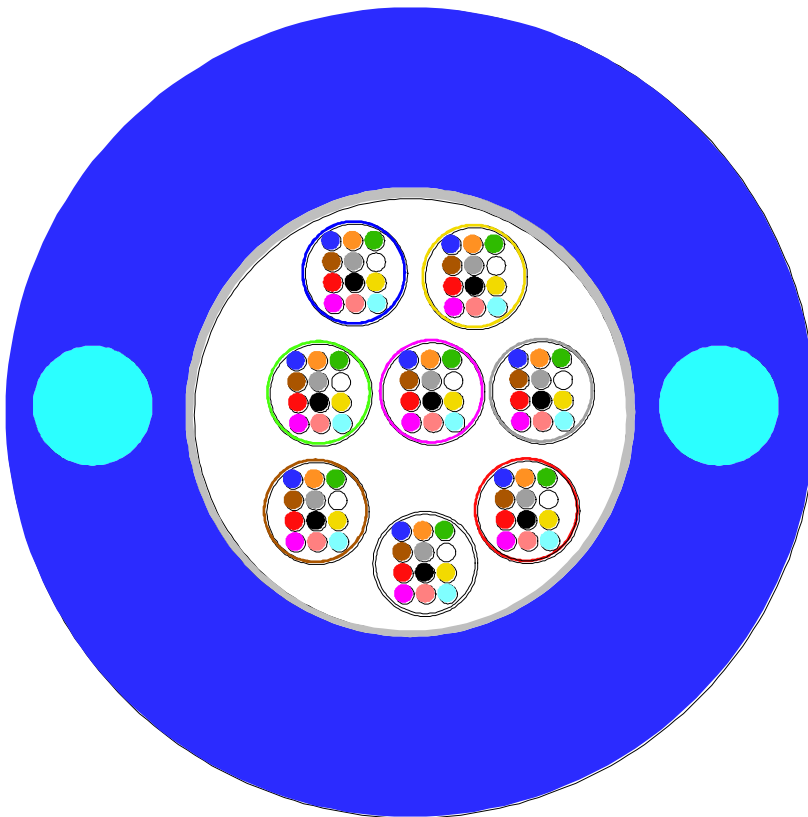


N07: UC^{FIBRE™} Universal Backbone Cable With Flextubes

Backbone cable for indoor/outdoor use with 12 fibre Flextubes and up to 144 fibres including longitudinal water blocking and 2 FRP rods embedded in a LSHF sheath.



Application and installation

Indoor and outdoor installation on cable trays or in ducts

The cable is suitable for mixed indoor and outdoor installation, on cable trays, in ducts and directly buried. The cable is blow-able into $\varnothing 40$ mm ducts.

Flextubes are extractable up to 10m for terminations and tapping.

The completely dry and soft Flextubes are easy to route in joint boxes and patch panels. The cable is built with strength members in the sheath allowing for convenient mid span access.

This cable is available with single and multimode fibres.

Standards

IEC 60794-2; IEC 60794-2-20; ISO 11801 2nd edition; EN 50 173-1

Flame resistance

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60754-1; IEC 60754-2; IEC 61034

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Construction

Fibre	12 coloured optical fibres in a ø 1.4 mm Flextube			
Fibre and Flextube colour code according to TIA 598C and IEC 60304	1	Blue	7	Red
	2	Orange	8	Black
	3	Green	9	Yellow
	4	Brown	10	Violet
	5	Grey	11	Pink
	6	White	12	Aqua
Waterblocking	Swellable threads and foil			
Strength member	2 FRP strength elements embedded in the sheath			
Sheath	Blue FireBur™ LSHF fire retardant, UV stabilised, EN 50290-2-27			
Print legend	Draka UC ^{FIBRE} I/O FX LSHF <Fibre count> <Fibre type><Fibre brand><Item No>05<Batch Number><Meter mark> M			

Physical properties

Attribute	IEC 60794-1-2 Method	Limits				
		24	36 - 48	60 - 72	96 - 120	144
Fibre count	-	24	36 - 48	60 - 72	96 - 120	144
Nominal diameter [mm]	-	9.6	9.9	10.8	11.8	12.3
Nominal weight [kg/km]	-	75	80	90	110	115
Short term tensile strength [N]	E1	1200				
Permanent tensile strength [N]	E1	400				
Crush (compressive strength) [N/100 mm]	E3	1500				
Impact [J]	E4	20J Striking surface R=300 mm				
Torsion	E7	6 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	75				
Temperature range	F1	Installation	-15 °C to 60 °C			
		Operation *)	-40 °C to 70 °C			
		Storage	-40 °C to 70 °C			
Water penetration	F5A	No water on free end				
Heat of combustion [MJ/km] [kWh/m]	-					

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Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Fibre count	Fibre type	Fibre data sheet
	UCFIBRE I/O FX LSHF 24 OM3B BL	24 (2 x 12)	MaxCap-BB-OM3	C31
	UCFIBRE I/O FX LSHF 48 OM3B BL	48 (4 x 12)	MaxCap-BB-OM3	C31
	UCFIBRE I/O FX LSHF 72 OM3B BL	72 (6 x 12)	MaxCap-BB-OM3	C31
	UCFIBRE I/O FX LSHF 96 OM3B BL	96 (8 x 12)	MaxCap-BB-OM3	C31
	UCFIBRE I/O FX LSHF 120 OM3B BL	120 (10 x 12)	MaxCap-BB-OM3	C31
	UCFIBRE I/O FX LSHF 144 OM3B BL	144 (12 x 12)	MaxCap-BB-OM3	C31
	UCFIBRE I/O FX LSHF 24 OM4B BL	24 (2 x 12)	MaxCap-BB-OM4	C32
	UCFIBRE I/O FX LSHF 48 OM4B BL	48 (4 x 12)	MaxCap-BB-OM4	C32
	UCFIBRE I/O FX LSHF 72 OM4B BL	72 (6 x 12)	MaxCap-BB-OM4	C32
	UCFIBRE I/O FX LSHF 96 OM4B BL	96 (8 x 12)	MaxCap-BB-OM4	C32
	UCFIBRE I/O FX LSHF 120 OM4B BL	120 (10 x 12)	MaxCap-BB-OM4	C32
	UCFIBRE I/O FX LSHF 144 OM4B BL	144 (12 x 12)	MaxCap-BB-OM4	C32
60040225	UCFIBRE I/O FX LSHF 24 SM2D BL	24 (2 x 12)	ESMF single mode G.652.D	C06
60040243	UCFIBRE I/O FX LSHF 48 SM2D BL	48 (4 x 12)	ESMF single mode G.652.D	C06
60040244	UCFIBRE I/O FX LSHF 72 SM2D BL	72 (6 x 12)	ESMF single mode G.652.D	C06
60040245	UCFIBRE I/O FX LSHF 96 SM2D BL	96 (8 x 12)	ESMF single mode G.652.D	C06
60040248	UCFIBRE I/O FX LSHF 120 SM2D BL	120 (10 x 12)	ESMF single mode G.652.D	C06
60040249	UCFIBRE I/O FX LSHF 144 SM2D BL	144 (12 x 12)	ESMF single mode G.652.D	C06
	UCFIBRE I/O FX LSHF 24 SM7B BL	24 (2 x 12)	BendBrightXS G.657.A2	C24
	UCFIBRE I/O FX LSHF 48 SM7B BL	48 (4 x 12)	BendBrightXS G.657.A2	C24
	UCFIBRE I/O FX LSHF 72 SM7B BL	72 (6 x 12)	BendBrightXS G.657.A2	C24
	UCFIBRE I/O FX LSHF 96 SM7B BL	96 (8 x 12)	BendBrightXS G.657.A2	C24
	UCFIBRE I/O FX LSHF 120 SM7B BL	120 (10 x 12)	BendBrightXS G.657.A2	C24
	UCFIBRE I/O FX LSHF 144 SM7B BL	144 (12 x 12)	BendBrightXS G.657.A2	C24

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