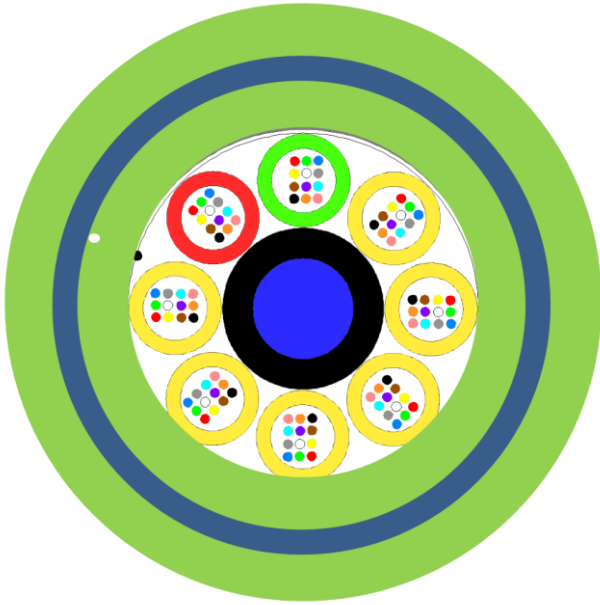


I13: UC^{FIBRE™} Universal Stranded Loose Tube Armoured Cable

Stranded loose tube cable with up to 288 fibres, inner FireRes[®] sheath, corrugated steel tape armouring, outer FireRes[®] sheath. VDE: U-DQH(SR)H



Application and installation

The intended installation environment is in tunnels and subways, where fire retardance is required. The steel armour makes the cable rodent proof.

Standards

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

Flame resistance

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24; IEC 60754-1; IEC 60754-2; IEC 61034, EN 50399 Class D_{ca}2d2a1, Class E_{ca}

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 gel-filled loose tubes Up to 12 fibres/tube for ≤ 144 fibres, 24 fibres/tube for > 144 fibres Up to 12 tubes, for layup refer to B04		
Water blocking	The core is wrapped with swellable tape		
Ripcord	1		
Inner sheath	FireRes®, EN 50290-2-27		
Ripcord	1		
Armouring	0.155 mm corrugated steel tape		
Outer sheath	1.5 mm FireRes®, EN 20290-2-27		
Cable Sheath colours	Cable with SM fibres: BendBright ^{XS} G.657.A2, BendBright G.657.A1	Yellow, RAL 1018	
	Cable with OM1	Grey, RAL 7037	
	Cable with MaxCap-BendBright-OM2	Orange, RAL 2009	
	Cable with MaxCap-BendBright-OM3	Aqua, RAL 6027	
	Cable with MaxCap-BendBright-OM4	Erika-Violet, RAL 4003	
	Cable with BendBright WideCap-OM5	Lime-Green	
Sheath marking	Draka UC ^{FIBRE} I/O ST CST LSHF-FR Dca-s2-d2-a1 1.8 kN <Fibre count> <Fibre type><Fibre brand> <Item No><Factory No><Batch Number><Meter mark> U-DQH(SR)H <Number of Elements> x <Fibre count per element> <Fibre family> <Mode field diameter> /125 <Transmission Class>		

Physical properties

Attribute	IEC 60794-1-21/22 Method	Limits					
Fibre count	-	≤ 96			96 < to ≤ 288		
Nominal diameter [mm]	-	14.5			19.5		
Fibre count		12	48	72	96	144	288
Nominal weight [kg/km]	-	265	265	265	255	445	450
Short term tensile strength (some days) [N]	E1	1800 N (fibre strain ≤ 0.5%)					
Permanent tensile strength [N]	E1	1000 N (fibre strain ≤ 0.25%)					
Crush (compressive strength) [N/100 mm]	E3	3000N					
Impact [J]	E4	20 Nm					
Torsion	E6	30 reversed bends; R = 300 mm					
Kink	E7	5 cycles ±1 turn					
Fibre count	E10	The cable does not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter					
Minimum bending radius [mm]-installation	E11	145			195		
Minimum bending radius [mm]-permanent	E18a	290			390		
Temperature range	F1	Storage: -60 °C to 60 °C Installation: -30 °C to 60 °C Operation -60 °C to 70 °C *)					
Water penetration	F5B	No water on free end (core only)					

*) In the interval -60 °C to 70 °C there is no attenuation variation (≤0.05 dB) for a single mode fibre, when tested according to the standard mentioned.

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Product codes – ordering information

Product Code	DoP Number*	Product description	Fibre count	Fibre type	Fibre data sheet
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 1x12 OM3B AQ	12	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 4x12 OM3B AQ	48	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 6x12 OM3B AQ	72	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 8x12 OM3B AQ	96	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x12 OM3B AQ	144	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x24 OM3B AQ	288	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 1x12 OM4B 4003	12	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 4x12 OM4B 4003	48	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 6x12 OM4B 4003	72	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 8x12 OM4B 4003	96	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x12 OM4B 4003	144	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x24 OM4B 4003	288	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 1x12 OM5B LG	12	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 4x12 OM5B LG	48	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 6x12 OM5B LG	72	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 8x12 OM5B LG	96	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x12 OM5B LG	144	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x24 OM5B LG	288	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 1x12 SM2D YL	12	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 4x12 SM2D YL	48	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 6x12 SM2D YL	72	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 8x12 SM2D YL	96	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x12 SM2D YL	144	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x24 SM2D YL	288	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 1x12 SM7A1 YL	12	OS2 - BendBright G.657.A1	C17
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 4x12 SM7A1 YL	48	OS2 - BendBright G.657.A1	C17
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 6x12 SM7A1 YL	72	OS2 - BendBright G.657.A1	C17
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 8x12 SM7A1 YL	96	OS2 - BendBright G.657.A1	C17
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x12 SM7A1 YL	144	OS2 - BendBright G.657.A1	C17
		UC ^{FIBRE} I/O ST CST LSHF-FR 1.8 kN 12x24 SM7A1 YL	288	OS2 - BendBright G.657.A1	C17

*DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: www.prysmiangroup.com/cpr

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