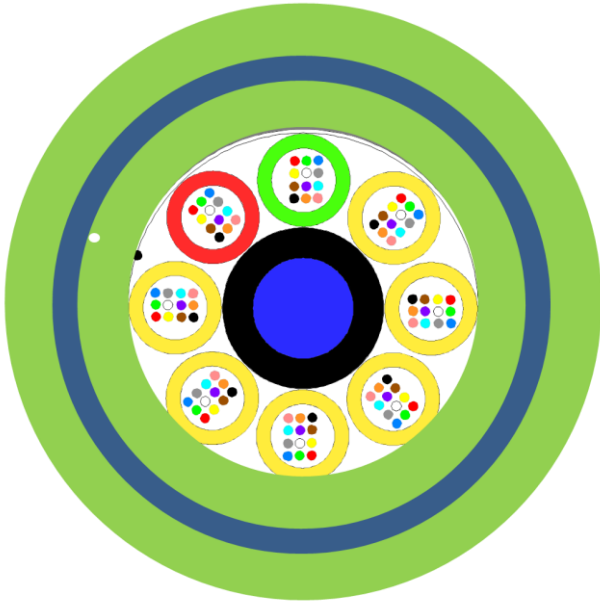


I14: UC^{FIBRE™} Universal Stranded Tube Armoured Gel-Filled B2ca Cable

Ind/Out, stranded tube cable with up to 144 fibres, inner FireRes[®] sheath, corrugated steel tape armouring, outer FireRes[®] sheath. Class-B2ca-s1a-d1-a1. VDE: U-DQH(SR)H

**B2_{ca}**
CPR**C_{ca}**
CPR**D_{ca}**
CPR**E_{ca}**
CPR

Application and installation

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

Standards

IEC 60794-1, IEC 60794-2, ISO 11801-1, EN 50173-1

Flame resistance

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24; IEC 60754-1; IEC 60754-2; IEC 61034, EN 50399 Class B2_{ca}s1a-d1-a1, Class C_{ca}, Class D_{ca}, 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 with up to 12 fibres each, up to 12 tubes	
Water blocking	The core is wrapped with swellable tape	
Ripcord	1 st	
Inner sheath	FireRes [®] , EN 50290-2-27	
Ripcord	2 nd	
Armouring	0.155 mm corrugated steel tape	
Outer sheath	1.5 mm FireRes [®] , EN 20290-2-27	
Cable Sheath colours	Cable with Singlemode fibres	Yellow, RAL 1018
	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 B2ca-s1a-d1-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						
		12	24	36	48	72	96	144
Fibre count		12	24	36	48	72	96	144
Fibre Distribution		1x12f	2x12f	3x12f	4x12f	6x12f	8x12f	12x12f
Nominal diameter [mm]		14.5	14.5	14.5	14.5	14.5	14.5	19.0
Nominal weight [kg/km]	-	249	253	256	260	266	235	404
Short term tensile strength (some days) [N]	E1	1800 (fibre strain ≤ 0.5%)						
Permanent tensile strength [N]	E1	1200 (fibre strain ≤ 0.25%)						
Crush (compressive strength) [N/100 mm]	E3	3000N						
Impact [J]	E4	20 Nm						
Repeated Bending	E6	30 reversed bends; R = 300 mm						
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						
Minimum bending radius [mm] - installation	E11	145						190
Minimum bending radius [mm] - permanent	E18a	290						380
Temperature range	F1	Storage: -40 °C to 60 °C Installation: -30 °C to 60 °C Operation -40 °C to 60 °C						
Water penetration	F5B	No water on free end (core only)						

I14: UC^{FIBRE}™ Universal Stranded Tube Armoured Gel-Filled B2ca Cable

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 B2 1.8 kN 1x12 OM3B AQ	12	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 2x12 OM3B AQ	24	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 3x12 OM3B AQ	36	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 4x12 OM3B AQ	48	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 6x12 OM3B AQ	72	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 8x12 OM3B AQ	96	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 12x12 OM3B AQ	144	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 1x12 OM4B 4003	12	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 2x12 OM4B 4003	24	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 3x12 OM4B 4003	36	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 4x12 OM4B 4003	48	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 6x12 OM4B 4003	72	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 8x12 OM4B 4003	96	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 12x12 OM4B 4003	144	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 1x12 OM5B LG	12	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 2x12 OM5B LG	24	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 3x12 OM5B LG	36	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 4x12 OM5B LG	48	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 6x12 OM5B LG	72	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 8x12 OM5B LG	96	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 12x12 OM5B LG	144	WideCap-OM5	C39
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 1x12 SM2D YL	12	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 2x12 SM2D YL	24	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 3x12 SM2D YL	36	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 4x12 SM2D YL	48	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 6x12 SM2D YL	72	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 8x12 SM2D YL	96	OS2 - G.652.D	C06e
		UC ^{FIBRE} I/O ST CST LSHF-FR B2 1.8 kN 12x12 SM2D YL	144	OS2 - G.652.D	C06e

*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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