

N10: UC^{FIBRE™} Universal Stranded Loose Tube Cable

**1800N, universal stranded loose tube, Cca non-metallic cable with 144 fibres and FireRes[®] sheath.
VDE: U-DQH**

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

Application and Installation

Universal indoor/outdoor cable for LAN, MAN and WAN backbones
With its FireRes[®] LSHF-FR sheathing this cable is ideal for mixed indoor and limited outdoor installation.
It is equally suited for installation in ducts and on trays.
It is water-blocked by gel-filled tubes and swellable elements.
This cable has very high flame retardance feature with Cca approval.

Standards

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

Flame Resistance

LSHF (FRNC): IEC 60332-1-2; IEC 60332-3-24; IEC 60754-2; IEC 61034; EN 50399 Class-C_{ca}s1d2a1, 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		
Loose tube	ø2.3 mm gel-filled loose tubes, with 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 tread		
Ripcord	Polyester ripcord for easy slitting of the sheath		
Sheath	1.5 mm FireRes [®] sheath, halogen free, flame retardant, UV stabilised, IEC 50290-2-27		
Cable Sheath colours	Cable with SM fibres: BendBright ^{XS} G.657.A2, BendBright G.657.A1	Yellow, RAL 1018	
	Cable with M6-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 LSHF-FR Cca-s1-d2-a1 1.8 kN <Fibre count><Fibre type><Fibre brand><Item No><Factory No><Batch Number><Meter mark> U-DQH <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	-	12	48	72	96	120	144	
Nominal diameter [mm]	-	11.2	11.2	11.2	13.0	14.0	16.0	
Nominal weight [kg/km]	-	100	125	130	165	200	220	
Short term tensile strength (some days) [N]	E1	1800 (fibre strain < 0.5%)						
Permanent tensile strength [N]	E1	900 (fibre strain < 0.25%)						
Crush (compressive strength) [N/100 mm]	E3	2000						
Impact [J]	E4	20						
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 Installation bending radius [mm]	E11	112	112	112	130	140	160	
Minimum Permanent bending radius [mm]	E18A	224	224	224	260	280	320	
Temperature range	F1	Installation		-40 °C to 70 °C				
		Operation *)		-40 °C to 70 °C				
		Storage		-40 °C to 70 °C				
Water penetration	F5	No water on free end						

*) 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 0.1dB/km in the temperature interval -40°C to +70°C.

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Product Codes

Product Code	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 4x12 OM3B AQ	48	MaxCap-BB-OM3	C31
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 5x12 OM3B AQ	60	MaxCap-BB-OM3	C31
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 6x12 OM3B AQ	72	MaxCap-BB-OM3	C31
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 8x12 OM3B AQ	96	MaxCap-BB-OM3	C31
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 12x12 OM3B AQ	144	MaxCap-BB-OM3	C31
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 3x12 OM4B 4003	36	MaxCap-BB-OM4	C32
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 4x12 OM4B 4003	48	MaxCap-BB-OM4	C32
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 6x12 OM4B 4003	72	MaxCap-BB-OM4	C32
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 8x12 OM4B 4003	96	MaxCap-BB-OM4	C32
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 12x12 OM4B 4003	144	MaxCap-BB-OM4	C32
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 3x12 OM5B LG	36	WideCap-BB-OM5	C39
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 4x12 OM5B LG	48	WideCap-BB-OM5	C39
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 6x12 OM5B LG	72	WideCap-BB-OM5	C39
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 8x12 OM5B LG	96	WideCap-BB-OM5	C39
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 12x12 OM5B LG	144	WideCap-BB-OM5	C39
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 2x12 SM7A1 YL	24	OS2 BendBright G.657.A1	C17
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 3x12 SM7A1 YL	36	OS2 BendBright G.657.A1	C17
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 4x12 SM7A1 YL	48	OS2 BendBright G.657.A1	C17
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 5x12 SM7A1 YL	60	OS2 BendBright G.657.A1	C17
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 6x12 SM7A1 YL	72	OS2 BendBright G.657.A1	C17
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 8x12 SM7A1 YL	96	OS2 BendBright G.657.A1	C17
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 12x12 SM7A1 YL	144	OS2 BendBright G.657.A1	C17
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 2x12 SM7B YL	24	OS2 BendBright ^{XS} G.657.A2	C24
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 3x12 SM7B YL	36	OS2 BendBright ^{XS} G.657.A2	C24
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 4x12 SM7B YL	48	OS2 BendBright ^{XS} G.657.A2	C24
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 6x12 SM7B YL	72	OS2 BendBright ^{XS} G.657.A2	C24
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 8x12 SM7B YL	96	OS2 BendBright ^{XS} G.657.A2	C24
UC ^{FIBRE}	I/O ST LSHF-FR C 1.8kN 12x12 SM7B YL	144	OS2 BendBright ^{XS} G.657.A2	C24

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