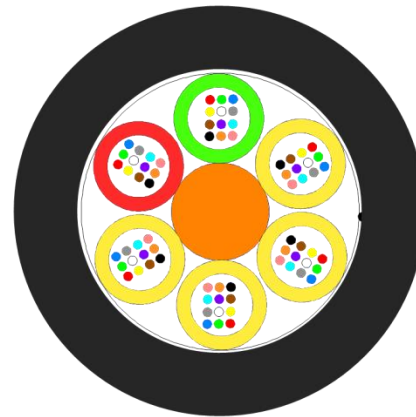
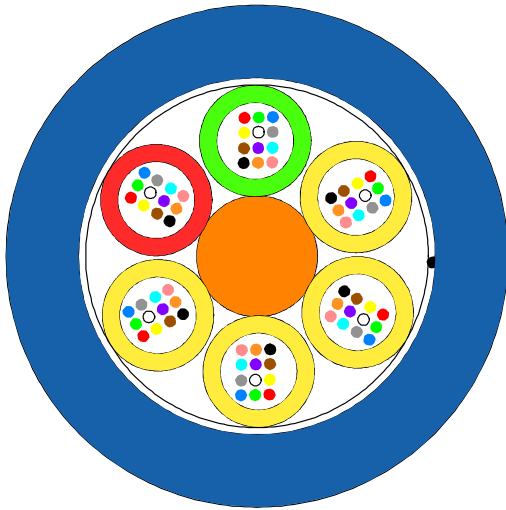


N01a: UC^{FIBRE}™ Universal Stranded Loose Tube Cable

Stranded loose tube cable with up to 288 fibres, FireBur® sheath. VDE: U-DQH



OPTIONAL BLACK SHEATH

E_{ca}
CPR

Application and Installation

This is a Universal indoor/outdoor cable for application as a trunk cable in LAN, MAN and WAN backbones. The cable can be installed ducts and on cable trays. The cable may be installed directly in the ground with proper sand filling.

Standards

EN 187 000, IEC 60794-2, IEC 60794-2-20, IEC 60794-2-21, ISO 11801-1, EN 50 173-1

Flame Resistance

LSHF: IEC 60332-1-2; IEC 60754-1; IEC 60754-2; IEC 61034-2; Class E_{ca}

Options

As standard this cable is provided with 12 fibres per tube up to 144 fibres and 24 fibres per tube more than 144 fibre counts, 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 2 – 12 fibres each, up to 12 tubes for 12 – 144 fibre counts; 24 fibres each, up to 12 tubes for more than 144 fibres in 1 layer. For lay-up refer to B04.	
Water blocking	The core is water blocked using swelling tape and tread	
Wrapping	Polyester nonwoven	
Ripcord	Polyester ripcord for easy slitting of the sheath	
Sheath	1.5 mm blue (black optional) FireBur®, halogen free. Flame resistant thermoplastic sheathing compound according to EN 50290-2-27, UV stabilized	
Print legend	Draka UC ^{FIBRE} I/O ST LSHF 1.8 kN <Number of Elements> x <Fibre count per element> <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							
		48	72	96	120	144	192	288	
Fibre count	-	48	72	96	120	144	192	288	
Fibre distribution		4x12f	6x12f	8x12f	10x12f	12x12f	8x24f	12x24f	
Nominal diameter [mm]	-	10.5	10.5	12.0	13.5	15.0	12.0	15.0	
Nominal weight [kg/km]	-	88	90	125	155	190	195	210	
Short term tensile strength (some days) [N]	E1	1800							
Permanent tensile strength [N]	E1	1200							
Crush (compressive strength) [N/100 mm]	E3	3000							
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 bending radius [mm]	E11	160	160	180	200	225	180	225	
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							
Heat of combustion [MJ/km] [kWh/m]	-		1900 0.53	2600 0.72	3400 0.94	4300 1.19			

*) 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 1.8 kN 4x12 OM3B	48	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 6x12 OM3B	72	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 8x12 OM3B	96	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 12x12 OM3B	144	MaxCap-BB-OM3	C31
60019790	UC ^{FIBRE} I/O ST LSHF 1.8 kN 4x12 OM4B	48	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 6x12 OM4B	72	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 8x12 OM4B	96	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 12x12 OM4B	144	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 2x12 OM5	24	WideCap-OM5	C39
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 4x12 OM5	48	WideCap-OM5	C39
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 6x12 OM5	72	WideCap-OM5	C39
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 8x12 OM5	96	WideCap-OM5	C39
60037500	UC ^{FIBRE} I/O ST LSHF 1.8 kN 1x12 SM2D	12	OS2 G.652.D	C06e
60019392	UC ^{FIBRE} I/O ST LSHF 1.8 kN 2x12 SM2D	24	OS2 G.652.D	C06e
60037503	UC ^{FIBRE} I/O ST LSHF 1.8 kN 4x6 SM2D	24	OS2 G.652.D	C06e
60026285	UC ^{FIBRE} I/O ST LSHF 1.8 kN 4x12 SM2D	48	OS2 G.652.D	C06e
60037520	UC ^{FIBRE} I/O ST LSHF 1.8 kN 6x12 SM2D	72	OS2 G.652.D	C06e
60019394	UC ^{FIBRE} I/O ST LSHF 1.8 kN 8x12 SM2D	96	OS2 G.652.D	C06e
60045388	UC ^{FIBRE} I/O ST LSHF 1.8 kN 11x12 SM2D	132	OS2 G.652.D	C06e
60020128	UC ^{FIBRE} I/O ST LSHF 1.8 kN 12x12 SM2D	144	OS2 G.652.D	C06e
60049567	UC ^{FIBRE} I/O ST LSHF 1.8 kN 4x12 SM2D BK	48	OS2 G.652.D	C06e
60048463	UC ^{FIBRE} I/O ST LSHF 1.8 kN 8x12 SM2D BK	96	OS2 G.652.D	C06e
60020239	UC ^{FIBRE} I/O ST LSHF 1.8 kN 12x12 SM2D BK	144	OS2 G.652.D	C06e
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 12x24 SM2D BK	288	OS2 G.652.D	C06e
60046154	UC ^{FIBRE} I/O ST LSHF 1.8 kN 4x12 SM7A1	48	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 6x12 SM7A1	72	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 8x12 SM7A1	96	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 12x12 SM7A1	144	OS2 BendBright G.657.A1	C17
	UC ^{FIBRE} I/O ST LSHF 1.8 kN 12x24 SM7A1	288	OS2 BendBright G.657.A1	C17

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