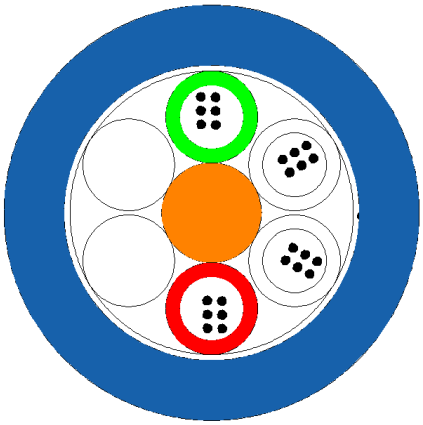
UC$^{FIBRE™}$ I/O ST D LSHF 1.8 kN

Stranded loose tube cable w. 6 – 264 fibres and 6, 8 or 12 fibres per tube, FireBur® sheath

DIN/VDE U-DQH | NO QXXI-I/O-JM/W | FR | DK



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 2nd edition
EN 50 173-1

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
Lose tube	ø2.3 mm jelly filled loose tubes, with 2 – 12 fibres each, up to 22 tubes in two layers, 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 FireBur®, halogen free. Flame resistant thermoplastic sheathing compound according to EN 50290-2-27, UV stabilized			

Note: The Draka policy of continuous improvement may cause in changed specifications without prior notice

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Fire rating

IEC 60332-1-2	Single vertical wire test,
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

Heat of combustion

Fibre count; 6 fibre/tube	Fibre count; 8 fibre/tube	Fibre count; 12 fibre/tube	MJ/km	KWh/m
6-36	8-48	12-72	1900	0.53
42-48	56-64	84-96	2600	0.72
54-60	72-80	108-120	3400	0.94
66-72	88-96	132-144	4300	1.19
78-84	104-112	156-168	5400	1.50
90-108	120-144	180-216	4000	1.11
114-132	152-176	228-264	5000	1.39

Physical properties

IEC 60974-1-2

Tensile strength (dynamic)	E1	1800 N
Tensile strength (permanent)	E1	1200 N
Compressive strength (crush)	E3	3000N
Impact	E4	20 Nm
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
Temperature range	F1	The cables can bear temperature cycling between -40 °C to +70 °C. 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 0.1 dB/km in the temperature interval -40°C to +70°C.
Water penetration	F5	No water on free end

Mechanical properties

Fibre count; 6 fibre/tube	Fibre count; 8 fibre/tube	Fibre count; 12 fibre/tube	Nominal diameter	Nominal cable weight	Minimum bending radius
6-36	8-48	12-72	10.5 mm	90 kg/km	160 mm
42-48	56-64	84-96	12.0 mm	125 kg/km	180 mm
54-60	72-80	108-120	13.5 mm	155 kg/km	200 mm
66-72	88-96	132-144	15.0 mm	190 kg/km	225 mm
78-84	104-112	156-168	16.5 mm	230 kg/km	250 mm
90-108	120-144	180-216	15.0 mm	180 kg/km	225 mm
114-132	152-176	228-264	16.5 mm	225 kg/km	250 mm

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Sheath marking

Draka UC^{Fibre} I/O ST D LSHF 1.8 kN <Number of Elements> x <Fibre count per element> <Fibre type><Fibre brand> <Item No>05<Batch Number><Meter mark>
U-DQH <Number of Elements> x <Fibre count per element> <Fibre family> <Mode field diameter> /125 <Transmission Class>

There is approximately 10cm space between the three blocks of text. Text string repeats every meter of the cable.

Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1025474	48 (4x12)	UCFIBRE I/O ST D LSHF 1.8 kN 48 OM4B	MaxCap-BB-OM4	C32
1021638	24 (2x12)	UC^{FIBRE} I/O ST D LSHF 1.8 kN 24 SM2D	OS2 Single mode	C06e
1021639	48 (4x12	UC^{FIBRE} I/O ST D LSHF 1.8 kN 48 SM2D	OS2 Single mode	C06e
1018405	72 (6x12)	UC^{FIBRE} I/O ST D LSHF 1.8 kN 72 SM2D	OS2 Single mode	C06e
1021642	96 (8x12)	UC^{FIBRE} I/O ST D LSHF 1.8 kN 96 SM2D	OS2 Single mode	C06e
1026945	144 (12x12)	UC^{FIBRE} I/O ST D LSHF 1.8 kN 144 SM2D	OS2 Single mode	C06e