

UC^{FIBRE™} I STD LSHF-FR 1.8 kN

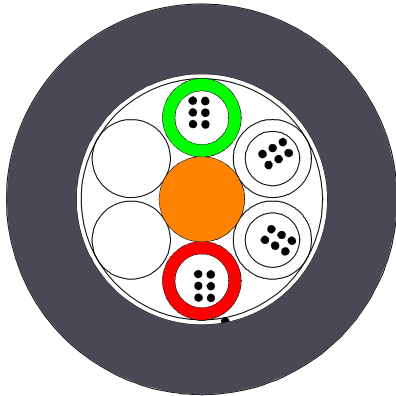
**Stranded loose tubes, 6 – 264 Optical fibres, 6, 8 or 12 fibres per
ø 2.3 mm tube; FireRes® sheath, IEC 60332-3-24**

DIN/VDE U- DQ H

NO

FR

DK



Application and Installation

The intended application for this cable is LAN and WAN backbones.

The intended installation environment is mainly indoor links; but the cable may also be installed outdoors in ducts. It is not recommended to install this cable by direct burial.

The cable features a very low flame spread and fulfils IEC 60332-2-24 fire test.

Standards

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

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

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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 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 waterblocked using swellable tape and tread	
Wrapping	Polyester nonwoven	
Ripcord	Polyester ripcord for easy slitting of the sheath	
Sheath	2.0 mm grey FireRes [®] , UV stabilized, EN 50290-2-27	

Fire rating

IEC 60332-1-2	Single vertical wire test,
IEC 60332-3-24 = IEC 332-3C	Vertically-mounted bunched wires or cables
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	2000	0.56
42-48	56-64	84-96	2900	0.80
54-60	72-80	108-120	3700	1.03
66-72	88-96	132-144	4600	1.28
78-84	104-112	156-168	5700	1.58
90-108	120-144	180-216	4400	1.22
114-132	152-176	228-264	5300	1.47

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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 cable diameter	Nominal cable weight	Minimum bending radius
6-36	8-48	12-72	10.5 mm	140 kg/km	160 mm
42-48	56-64	84-96	12.0 mm	180 kg/km	180 mm
54-60	72-80	108-120	13.5 mm	215 kg/km	200 mm
66-72	88-96	132-144	15.0 mm	260 kg/km	225 mm
78-84	104-112	156-168	16.5 mm	300 kg/km	250 mm
90-108	120-144	180-216	15.0 mm	244 kg/km	225 mm
114-132	152-176	228-264	16.5 mm	300 kg/km	250 mm

Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet

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