

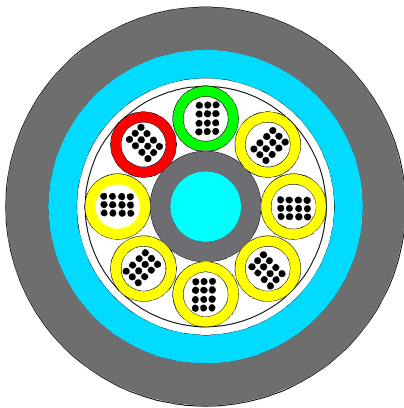
UC^{FIBRE™} I/O ST D DA LSHF-FR 6.0 kN**Stranded loose tubes, 6 – 96 Optical fibres: 6, 8 or 12 fibres per \varnothing 2.3 mm tube, Glass yarns, FireRes[®] sheath, IEC 60332-3-24**

DIN/VDE U- DQ (ZN) B H

NO

FR

DK GARPE 3 FR plus



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	
Reinforcement	Heavy layer of glass fibre yarns as reinforcement and rodent protection, effective in most cases.	
Ripcord	Polyester ripcord for easy slitting of the sheath	
Sheath	1.5 mm FireRes [®] , standard colour: Grey, 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 and 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		
6-36	8-48	12-72	2000 MJ/km	0.56 kWh/m
42-48	56-64	84-96	2600 MJ/km	0.72 kWh/m

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Physical properties

IEC 60974-1-2

Tensile strength (dynamic)	E1	6000 N
Tensile strength (permanent)	E1	4000 N
Compressive strength (crush)	E3	3000N
Impact	E4	25 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	13 mm	160 kg/km	160 mm
42-48	56-64	84-96	14.5 mm	210 kg/km	175 mm

Product codes – ordering information

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

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