

## UC<sup>FIBRE™</sup> ICT DA LSHF-FR 3.0 kN

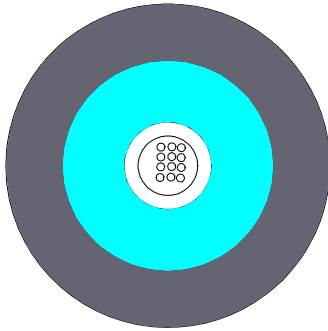
Central tube, 2 – 24 fibres, FireRes<sup>®</sup> sheath, IEC 60332-3-24, UL 1666

DIN/VDE J- DQ (ZN) B H

NO

FR

DK GARPE 4 FR plus



### Application and Installation

This cable can be used for LAN and WAN backbones and intra building connections. This cable is specific amid at installations where there is a requirement for passing a large scale fibre test. e.g. IEC 60332-3-24 The cable features a very high tensile strength and a degree of rodent protection, effective in most cases.

This cable is suitable for installation indoor on trays and in ducts. It may also be installed outdoor in ducts, even water filled; but it is not suitable for direct burial.

### Standards

ISO 11801 2<sup>nd</sup> edition

EN 50173-1:2002

IEC 60794-1

### Construction

Loose tube	ø2.8 mm jelly filled loose tube with 2 – 16 fibres; ø3.5 mm loose tube with 24 fibres		
Fibre colour code	1	Red	13 Yellow w/mark per 70 mm
	2	Green	14 White w/mark per 70 mm
	3	Blue	15 Grey w/mark per 70 mm
	4	Yellow	16 Turquoise w/mark per 70 mm
	5	White	17 Orange w/mark per 70 mm
	6	Grey	18 Pink w/mark per 70 mm
	7	Brown	19 Yellow w/mark every 35 mm
	8	Violet	20 White w/mark every 35 mm
	9	Turquoise	21 Grey w/mark every 35 mm
	10	Black	22 Turquoise w/mark every 35 mm
	11	Orange	23 Orange w/mark every 35 mm
	12	Pink	24 Pink w/mark every 35 mm
Strength member	Waterblocked E-Glass fibre elements		
Sheath	2.0 mm grey FireRes <sup>®</sup> sheath, UV stabilised, IEC 50290-2-27		

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 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
UL 1666	US Riser test

### Heat of combustion

2-16 fibres:	1280 MJ/km	0.36 kWh/m
24 fibres:	1430 MJ/km	0.40 kWh/km

### Physical properties

IEC 60794-1

Nominal outer diameter	-	2 - 16 fibres: 9.5 mm 18 - 24 fibres: 10 mm
Nominal weight	-	2 - 16 fibres: 105 kg/km 18 - 24 fibres: 115 kg/km
Maximum installation tensile strength	E1	3000 N (fibre strain less than 1/2 of proof test level)
Short term tensile strength	E1	2000 N (fibre strain less than 1/3 of proof test level)
Permanent tensile strength	E1	1000 N (no attenuation change; fibre strain less than 1/4 of proof test level)
Compressive strength (crush)	E3	3000N
Impact	E4	25 Nm (no attenuation change, no broken cable elements)
Torsion	E7	5 cycles ± 1 turn
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 200 mm
Min. Bending radius, unloaded	E11	R = 100 mm
Min. Bending radius, loaded	-	R = 100 mm
Temperature range	F1	Storage: -40°C to +60°C (short term up to 70 °C) Installation: -15°C to +40°C Operation: -40°C to +70°C
Water penetration	F5B	No water on free end

### Product codes – ordering information

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

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