

UC^{FIBRE™} ICT D DA LSHF-FR 3.0 kN

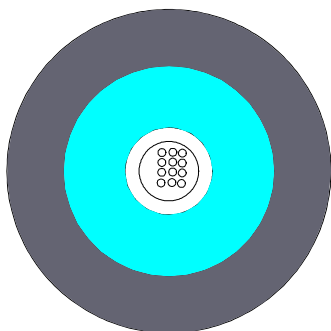
Central tube cable w. 2 – 24 fibres, glass elements and FireRes[®] sheath,
IEC 60332-3-24, UL 1666

DIN/VDE J-DQ(ZN)BH

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 2nd 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			

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



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Sheath	2.0 mm grey FireRes® sheath, UV stabilised, IEC 50290-2-27
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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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