

UC^{FIBRE™} I/O ST D DA LSHF 6.0 kN

Stranded loose tube, 6 – 264 fibres, 6, 8 or 12 fibres per \varnothing 2.3 mm tube, glass yarns, FireBur[®] sheath

DIN/VDE U-DQ(ZN)BH

NO QXAI-I/ORG-JM/W

FR

DK Garpe 3 FR



Application and Installation

Universal indoor/outdoor cable for LAN, MAN and WAN backbones
Directly installation in the ground
Rodent protection, effective in most cases

Standards

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

Construction

Central strength member	\varnothing 2.5 mm FRP rod
Loose tube	\varnothing 2.3 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 blue FireBur [®] , UV stabilized, EN 50290-2-27

Fire rating

IEC 60332-1-2	Single vertical wire test,
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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	2200 MJ/km	0.61 KWh/m
42-48	56-64	84-96	2900 MJ/km	0.81 KWh/m
54-60	72-80	108-120	3700 MJ/km	1.03 KWh/m
66-72	88-96	132-144	4600 MJ/km	1.28 KWh/m
78-84	104-112	156-168	5600 MJ/km	1.56 KWh/m
90-108	120-144	180-216	4300 MJ/km	1.19 KWh/m
114-132	152-176	228-264	5200 MJ/km	1.44 KWh/m

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	145 kg/km	160 mm
42-48	56-64	84-96	14.5 mm	180 kg/km	175 mm
54-60	72-80	108-120	16 mm	230 kg/km	190 mm
66-72	88-96	132-144	17.5 mm	270 kg/km	210 mm
78-84	104-112	156-168	19 mm	315 kg/km	220 mm
90-108	120-144	180-216	18 mm	260 kg/km	215 mm
114-132	152-176	228-264	19.5 mm	305 kg/km	230 mm

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Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet
1017511	24 (2 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 24 MM50	OM2 HiCap 50/125 multi mode	C08
1017515	36 (3 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 36 MM50	OM2 HiCap 50/125 multi mode	C08
1017518	48 (4 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 48 MM50	OM2 HiCap 50/125 multi mode	C08
o. request	144 (12 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 144 MM50	OM2 HiCap 50/125 multi mode	C08
1017510	24 (2 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 24 MM52	OM2 50/125 multi mode 600/1200	C01a
1017514	36 (3 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 36 MM52	OM2 50/125 multi mode 600/1200	C01a
1017517	48 (4 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 48 MM52	OM2 50/125 multi mode 600/1200	C01a
1017522	144 (4 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 144 MM52	OM2 50/125 multi mode 600/1200	C01a
1017520	48 (3 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 48 MM53	OM3 MaxCap [®] 300	C12
1017523	144 (12 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 144 MM53	OM3 MaxCap [®] 300	C12
1017512	24 (2 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 24 SM2D	OS2 Single mode	C06e
1017516	36 (3 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 36 SM2D	OS2 Single mode	C06e
1017519	48 (4 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 48 SM2D	OS2 Single mode	C06e
1017524	144 (12 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 144 SM2D	OS2 Single mode	C06e
1017513	24 (2 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 24 MM52/SM2D	Hybrid 12 x OM2 50/125 + 12 x OS2 single mode	C01a + C06e
1017521	48 (4 x 12)	UCFIBRE I/O ST D DA LSHF 6.0kN 48 MM52/SM2D	Hybrid 24 x OM2 50/125 + 24 x OS2 single mode	C01a + C06e