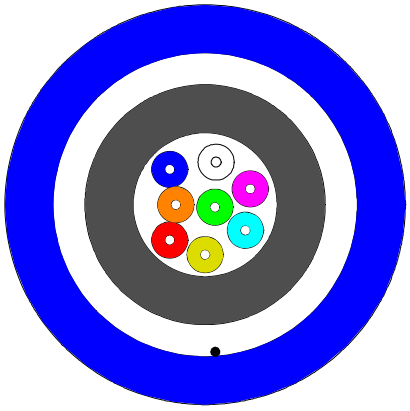
UC$^{FIBRE™}$ I/O DI D DA LSHF T

Tight buffer, 2 – 24 fibre, aramid yarns, LSZH sheath, Glass yarn reinforcement and rodent protection, FireBur® outer sheath

DIN/VDE	NO	FR	DK
U-V(ZN)HBH 2..18		COMTFW	



Application and Installation

This distribution or mini-break-out cable can be used for many outdoor applications and indoor applications
Typical cable applications includes: LAN and WAN backbones, central office interconnections, backbones in data centres, and many other.
The cable is suited for installation in ducts, on trays and directly buried. The special intended installation environment for this cable is duct systems which may flooded from time to time.
The cable features a double sheathing with the outer sheath being of UV stabilised, water and moisture resistant FireBur® material. Between the 2 sheaths there is a layer of coated and water blocked glass yarns, giving the cable a very high tensile strength and a degree of rodent protection.
The cable is thus well suited for outdoor runs.

Standards

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

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Construction

Fibre	2 - 24 tightly buffered fibres 900 μm ± 50 μm.			
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	Ultra high modulus Aramid yarns			
Inner sheath	LSZH fire retardant, UV stabilised, EN 50290-2-27			
Reinforcement	Coated glass yarns for increased tensile strength and a degree of rodent protection			
Ripcord	Polyester			
Sheath	1.2 mm blue FireBur® fire retardant, UV stabilised, EN 50290-2-27			

Fire rating

IEC 60332-1-2	Single vertical wire test,
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

Heat of combustion

2	1200 MJ/km	0.33 KWh/m
4	1300 MJ/km	0.36 KWh/m
6	1500 MJ/km	0.42 KWh/m
8	1600 MJ/km	0.44 KWh/m
12	1900 MJ/km	0.53 KWh/m
16	2000 MJ/km	0.56 KWh/m
24	2500 MJ/km	0.69 KWh/m

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Physical properties

IEC 60974-1-2

Permanent tensile strength	E11	2, and 4 fibres	1300 N
		6 and 8 fibres	1400 N
		12 and 16 fibres	1600 N
		24 fibres	1800 N
Short term tensile strength (some days)	E11	2, and 4 fibres	2700 N
		6 and 8 fibres	2900 N
		12 and 16 fibres	3200 N
		24 fibres	3600 N
Maximum installation load (a few hours)	-	2, and 4 fibres	3900 N
		6 and 8 fibres	4200 N
		12 and 16 fibres	4800 N
		24 fibres	5400 N
Impact	E4	15 J	
Crush (compressive strength)	E3	2000 N/ 100 mm	
Torsion	E7	5 cycles ± 1 turn	
Temperature range	F1	Operation and Installation Storage	-20 °C to 60 °C -40 °C to 70 °C

Mechanical properties

Fibre count	Nominal diameter	Nominal cable weight	Minimum bending radius
2	9 mm	80 kg/km	100 mm
4	9.5 mm	85 kg/km	105 mm
6	10 mm	90 kg/km	110 mm
8	10 mm	95 kg/km	110 mm
12	10.5 mm	110 kg/km	115 mm
16	11 mm	115 kg/km	120 mm
24	13 mm	140 kg/km	130 mm

Product codes – ordering information

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