



UC^{FIBRE™} I/O DI N MA LSHF ES9

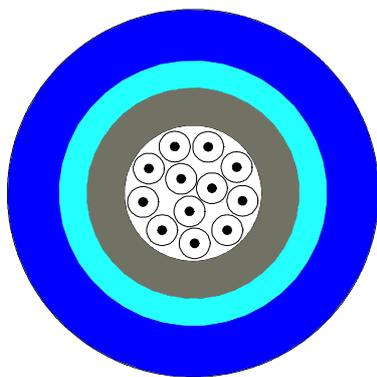
Steel tape armoured cable with 2 – 16 ES9 tightly buffered fibres, aramid yarns, LSHF sheath, steel tape, FireBur[®] sheath

DIN/VDE U-V(ZN)H(SR)H

NO

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Application and Installation

This distribution or mini-break-out cable can be used for many indoor and outdoor applications. Typical cable applications include: 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 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 steel tape armouring making the cable rodent proof.

Standards

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

Construction

Fibre	2 - 16 tightly buffered fibres 900 $\mu\text{m} \pm 50 \mu\text{m}$.		
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	Grey LSHF fire retardant and UV stabilised, EN 50290-2-27		

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



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Steel tape armouring	Corrugated steel tape 0.15 mm
Outer sheath	1.5 mm blue FireBur [®] fire retardant and 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 and 4	1260 MJ/km	0.35KWh/m
6, 8 and 12	1950 MJ/km	0.54 KWh/m
16	2000 MJ/km	0.56 KWh/m

Physical properties

IEC 60974-1-2

Permanent tensile strength	E11	2, 4, 6 and 8 fibres	280 N
		12 and 16 fibres	340 N
Short term tensile strength (some days)	E11	2, 4, 6 and 8 fibres	560 N
		12 and 16 fibres	680 N
Maximum installation load (a few hours)	-	2, 4, 6 and 8 fibres	1000 N
		12 and 16 fibres	1200 N
Impact	E4	20 J	
Crush (compressive strength)	E3	3000 N/ 100 mm	
Torsion	E7	5 cycles ± 1 turn	
Temperature range	F1	Operation and Installation	-20 °C to 70 °C
		Storage	-40 °C to 70 °C

Mechanical properties

Fibre count	Nominal diameter	Nominal cable weight	Minimum bending radius Long term/short term
2, and 4	8.5 mm	90 kg/km	170/130 mm
6, 8, 12 and 16	11.0 mm	130 kg/km	220/170 mm

Product codes – ordering information

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

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