

## FIBER OPTIC CABLE

### Riser Cable LSFH

#### Description

04-.../FSN(ZN)H(ZNG)H-...100

- Metal free indoor and outdoor cable
- Rodent-protected, glass-armoured
- For direct connector assembly
- Easy stripping
- UV-protected, suitable for outdoor use
- Increased tensile strength
- Low smoke, halogen free and self-extinguishing
- Improved crush resistance
- Longitudinal and transversal watertight cable



#### Available Types

##### Type of Fiber

E9/125  
G50/125-OM3  
G50/125-OM4  
G50/125-OM5

according to IEC 60793-2-50 Typ B1.3 + ITU G.652.D  
according to IEC 60793-2-10 A1b-OM3 + ITU G.651 BendOptimized  
according to IEC 60793-2-10 A1b-OM4 + ITU G.651 BendOptimized  
according to IEC 60793-2-10 A1b-OM5 + ITU G.651 BendOptimized

##### Standard Colours

Fiber: E9, G50 and G62: transparent  
Tube: According to colour code  
Jacket (inner): Black  
Jacket (outer): Black, Orange possible

#### Technical data

##### Construction

Description / Material	Size	Options / Notice
1 Strength member	0.45 mm	
4 Optical fiber	245 µm	Fiber type, buffered
4 Tight tube	0.9 mm	Colour
Reinforcement / aramide yarb		
1 Jacket / PE flame retardant	5 mm	Colour, inscription
13 Reinforcement		Swellable
Outer jacket / PE flame retardant	10 mm	Colour, inscription

##### Mechanical data

Characteristics	Conditions	Tested acc. to	Values
Weight			112 kg/km
Tensile strength	During installation In service	IEC 60794-1-2 E1	4000 N 800 N
Minimal bending radius	During installation In service	IEC 60794-1-2 E11	150 mm 100 mm
Crush resistance	During installation In service	IEC 60794-1-2 E3	6000 N/dm 2000 N/dm
Impact resistance	W <sub>p</sub> = 2.21 J	IEC 60794-1-2 E4	200 impacts
Repeated bending	Radius = 100 mm / Weight 0 10	IEC 60794-1-2 E6	1000 cycles

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### Jellyfree Cable LSFH

#### Environmental Data

Characteristics	Conditions	Tested acc. to	Values
Temperature range	During installation In service In storage	IEC 60794-1-22 F1	-10 °C up to +50°C -20 °C up to +70°C -20 °C up to +70°C
Fire load			2 MJ/m
Fire propagation	On a vertical single cable On a vertical cable bundle	IEC 60332-1-2 IEC 60332-3-24	Passed passed
Fire Test: smoke density	Jacket material	IEC 61034-2	Passed
Fire Test: halogen acid gas	Jacket material	IEC 60754-1	Halogen free
Fire Test: degree of acidity	Jacket material	IEC 60754-2	Passed
2011/65/EC (RoHS) 2015/863 and 2017/2102)			Compliant
Water penetration	h=1m, 24h, p<3m	IEC 60794-1-2 F5B	Passed

Specification for singlemode at 1550nm, for multimode at 1300nm

#### Comment

84101332	04-G50/F5N(ZN)H(ZNG)H-D100-F_A (4xOM3)
85107430	04-G50/F5N(ZN)H(ZNG)H-D100-G_A (4xOM4)
85260181	04-G50/F5N(ZN)H(ZNG)H-D100-H_A (4xOM5)
85241538	04-E9/F5N(ZN)H(ZNG)H-G100_A (4xS.M.)