

Glass-armoured multi-fiber loose tube cables – up to 60 fibers



Design

Cable design	5 multi-fiber loose tube, jelly-filled with 2 - 12 fibers strength member 2 ripcords
Strain relief and rodent protection	glass-armoured
Jacket material	LSFH™
Jacket colour	black (optional with 2 orange stripes)

Properties

- Metal free indoor / outdoor cable
- Rodent protection (glass-armoured)
- Ripcord for easy jacket removal
- For high thermal stability
- Low smoke, halogen free and self-extinguishing
- Optimized outer diameter construction
- Longitudinal and transversal watertight cable

Applications

- Data cable in distribution networks
- For installation outdoor, in wet cable ducts and pipes
- ideal for applications involving high safety requirements in case of a fire

According to IEC 60794-1-2

Ordering information

60-.../BWSN(ZNG)H-...105

60-.../WSN(ZNG)H-...116

Please see page 148

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Specification

Jacket material	LSFH™	LSFH™		
Jacket Ø	10.5	11.6	mm	
Multi fiber loose tube	mini	standard		
Approx. weight	108	148	kg/km	

Mechanical properties

Tensile strength	during installation	6000	7000	N	IEC 60794-1-2 E1
	in service	3000	3500	N	
Min. bend radius	during installation	150	200	mm	IEC 60794-1-2 E11
	in service	100	120	mm	
Crush resistance	short-term	800	800	N/cm	IEC 60794-1-2 E3
	long-term	300	300	N/cm	
Impact resistance	Wp = 2.21 J	50	50	impacts	IEC 60794-1-2 E4
Repeated bending	r = 120 mm / 10 kg		2000	cycles	IEC 60794-1-2 E6
Water penetration	h = 1 m, 24 h, p < 3 m	p	p		IEC 60794-1-2 F5B

Thermal properties

Temperature range	during installation	-10 to +50	°C	IEC 60794-1-2 F1
	in service	-40 to +70	°C	
	in storage	-40 to +70	°C	

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

Combustion properties

Fire load		2.6	2.5	MJ/m	
Fire propagation	on a vertical single cable	p	p		IEC 60332-1
Fire propagation	on a vertical cable bundle	p	p		IEC 60332-3-24
Fire test	with circuit integrity (CI)	180	180	min.	IEC 60331-25
Smoke density		p	p		IEC 61034-2
Halogen acid gas	jacket material	p	p		IEC 60754-1
Degree of acidity	jacket material	p	p		IEC 60754-2
2002/95/EC (RoHS)		compliant			

p = passed