

# Glass-armoured multi-fiber loose tube cables - up to 144 fibers



## Properties

- Metal free indoor and outdoor cable
- Rodent protection, glass-armoured
- Ripcord for easy jacket removal
- Jacket material according to UL 94V-0
- Low smoke, halogen free and self-extinguishing
- Longitudinal and transversal watertight cable

## Applications

- Data cable in distribution networks
- For applications involving high safety requirements in case of fire



## Design

Cable design	4 to 12 multi-fiber loose tube, jelly-filled with 2 to 12 fibers strength member 2 ripcords
Strain relief and rodent protection	glass-rovng
Jacket material	LSFH™
Jacket colour	black (optional with 2 orange stripes)

According to IEC 60794-1-2

## Ordering information

24.../BWSN(ZNG)H...96
48.../BWSN(ZNG)H...96
72.../BWSN(ZNG)H...106
96.../BWSN(ZNG)H...122
144.../BWSN(ZNG)H...145

Please see page 160.

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Specification		4	6	8	12	
Number of fibers		24/48	72	96	144	
Jacket Ø	mm	9.6	10.6	12.2	14.5	
Multi fiber loose tube		mini	mini	mini	mini	
Approx. weight	kg/km	103	123	148	217	

Mechanical properties							
Tensile strength	during installation	N	9000	9000	9000	9000	IEC 60794-1-2 E1
	in service	N	4000	4000	4000	4000	
Min. bend radius	during installation	mm	140	160	180	220	IEC 60794-1-2 E11
	in service	mm	100	110	120	150	
Crush resistance	short-term	N/dm	6000	6000	6000	6000	IEC 60794-1-2 E3
	long-term	N/dm	3000	3000	3000	3000	
Impact resistance	Wp = 2.21 J	impact	50	50	50	50	IEC 60794-1-2 E4
Water penetration	h = 1 m, 24 h, p < 3 m		p	p	p	p	IEC 60794-1-2 F5A

Thermal properties							
Temperature range	during installation	°C	-10 to +50				IEC 60794-1-22 F1
	in service	°C	-40 to +70				
	in storage	°C	-40 to +70				

Combustion properties							
Fire load		MJ/m	1.75	2.1	2.7	4.0	
Fire propagation	on a vertical single cable		p	p	p	p	IEC 60332-1-2
Fire propagation	on a vertical cable bundle		p	p	p	p	IEC 60332-3-25
Fire test with circuit integrity			90min	90min		90min	IEC 60331-25
Smoke density			p	p	p	p	IEC 61034-2
Halogen acid gas	jacket material		p	p	p	p	IEC 60754-1
Degree of acidity	jacket material		p	p	p	p	IEC 60754-2
2011/65/EC (RoHS)			compliant				
(EU) No 305/2011 (CPR)			*				EN 50575

p = passed

\* Dca-s1a, d0, a1