

Glass-armoured multi-fiber loose tube cables - up to 72 fibers



Design

Cable design	5 - 6 multi-fiber loose tube, jelly-filled with 2 - 12 fibers strength member 2 ripcords
Strain relief and rodent protection	glass-armoured
Jacket material	PE
Jacket colour	black with 2 orange stripes

Properties

- Metal free outdoor cable
- Rodent protection (glass-armoured)
- For use in ducts and unprotected environment
- Ripcord for easy jacket removal
- High chemical resistance against acids and alkalis
- For high mechanical requirements
- Halogen free and non-corrosive fire gases
- Longitudinal and transversal watertight cable

Applications

- For installation directly in the ground and in mechanically unprotected environments
- Data cable in distribution networks
- For installation outdoor, in wet cable ducts and pipes

According to IEC 60794-1-2

Ordering information

60-.../BWSN(ZNG)V-...105
60-.../WSN(ZNG)Y-...150
72-.../BWSN(ZNG)V-...117
72-.../WSN(ZNG)Y-...160
Please see page 154

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Specification	5	5	6	6		stranding
Fiber up to	60	60	72	72		
Jacket material	HDPE	LDPE	HDPE	LDPE		
Jacket Ø	10.5	15.0	11.7	16.0	mm	
Multi fiber loose tube	mini	standard	mini	standard		
Approx. weight	88	178	112	178	kg/km	

Mechanical properties

Tensile strength	during installation	6000	9000	9000	13000	N	IEC 60794-1-2 E1
	in service	3000	4500	4500	6500	N	
Min. bend radius	during installation	150	225	165	240	mm	IEC 60794-1-2 E11
	in service	100	150	110	160	mm	
Crush resistance	short-term	800	800	800	800	N/cm	IEC 60794-1-2 E3
	long-term	300	300	300	300	N/cm	
Impact resistance	W _p = 2.21 J	50		50		impacts	IEC 60794-1-2 E4
	W _p = 4.41 J		100		100		
Repeated bending	r = 50 mm/1 kg	1000				cycles	IEC 60794-1-2 E6
	r = 150 mm/10 kg		3000				
	r = 160 mm/10 kg				3000		
Water penetration	h = 1 m, 24 h, p < 3 m	p	p	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	2.8	5.1	3.3	4.7	MJ/m	
2002/95/EC (RoHS)	compliant					

p = passed