

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



Design

Cable design	8 - 12 multi-fiber loose tubes, 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-protected, glass-armoured
- For use in ducts and unprotected environment
- Ripcords 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 installations directly in the ground and in mechanically unprotected environments
- As data cable in distribution networks
- For installation outdoors, in wet cable ducts and pipes

According to IEC 60794-1-2

Ordering information

96-.../BWSN(ZNG)V-...130
96-.../WSN(ZNG)Y-...180
144-.../BWSN(ZNG)V-...150
144-.../WSN(ZNG)Y-...220
Please see page 155

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Specification	8	8	12	12		stranding
Fiber up to	96	96	144	144		
Jacket material	HDPE	LDPE	HDPE	LDPE		
Jacket Ø	13.0	18.0	15.0	22.0	mm	
Multi fiber loose tube	mini	standard	mini	standard		
Approx. weight	130	263	194	385	kg/km	

Cables with 120 fibers are available on request

Mechanical properties

Tensile strength	during installation	9000	13000	15000	18000	N	IEC 60794-1-2 E1
	in service	4500	6500	7500	9000	N	
Min. bend radius	during installation	180	270	225	330	mm	IEC 60794-1-2 E11
	in service	120	180	150	220	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			3000		3000	cycles	IEC 60794-1-2 E6
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	4.0	6.8	6.3	11.1	MJ/m	
2002/95/EC (RoHS)	compliant					

p = passed

Cable with 120 fibers on request.