

Glass-armoured multi-fiber loose tube cables – up to 24 fibers



Design

Cable design	multi-fiber loose tube, jelly-filled
Strain relief and rodent protection	glass-armoured
Jacket material	PE
Jacket colour	black at Ø 8.5 mm black at Ø 12.0 mm

Properties

- Metal free outdoor cable
- Rodent protection (glass-armoured)
- High chemical resistance against acids and alkalis
- For high mechanical requirements
- Halogen free and non-corrosive fire gases
- Longitudinal and transversal watertight cable
- For MASTERLINE applications

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

12-.../W(ZNG)Y-...85
24-.../W(ZNG)Y-...85
12-.../W(ZNG)Y-...120
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Specification						
Jacket material		LDPE	LDPE	LDPE		
Jacket Ø		8.5	8.5	12.0	mm	
Number of fibers each bundle		2 - 12	24	2 - 12		
Multi fiber loose tube		standard	standard	standard		
Approx. weight		63	63	135	kg/km	

Mechanical properties						
Tensile strength	during installation	3000	3000	9000	N	IEC 60794-1-2 E1
	in service	1500	1500	4500	N	
Min. bend radius	during installation	130	130	180	mm	IEC 60794-1-2 E11
	in service	80	80	120	mm	
Crush resistance	short-term	1000	1000	3000	N/cm	IEC 60794-1-2 E3
	long-term	300	300	1500	N/cm	
Impact resistance	Wp = 4.41 J	30	30	30	impacts	IEC 60794-1-2 E4
Repeated bending	r = 80 mm/2.5 kg	5000	5000	5000	cycles	IEC 60794-1-2 E6
	r = 120 mm/2.5 kg					
Torsion	± 1440° ± 360°	3	3	3	cycles	IEC 60794-1-2 E7
Water penetration	h = 1 m, 24 h, p < 3 m	p	p	p		IEC 60794-1-2 F5B

Thermal properties						
Temperature range	during installation	-10 to +50	-10 to +50	-10 to +50	°C	IEC 60794-1-2 F1
	in service	-40 to +70	-25 to +70	-40 to +70	°C	
	in storage	-40 to +70	-25 to +70	-40 to +70	°C	

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

Combustion properties						
Fire load		1.7	1.7	3.4	MJ/m	
2002/95/EC (RoHS)		compliant				

p = passed