

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



## Design

Cable design	2 multi-fiber loose tubes, jelly-filled with 2 – 12 fibers 2 ripcords
Strain relief and rodent protection	glass-armoured
Jacket material	LSFH™
Jacket colour	black

## Properties

- Metal free indoor and outdoor cable
- Rodent-protected, glass-armoured
- For use in ducts and unprotected environment
- Ripcord for easy jacket removal
- Low smoke, halogen free and self-extinguishing
- Longitudinal and transversal watertight cable
- For MASTERLINE applications

## 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
- Ideal for applications involving high safety requirements in case of a fire

According to IEC 60794-1-2

## Ordering information

up to 24-.../W(ZNG)H-...94  
Please see page 148

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

Specification			
Jacket material		LSFH™	
Jacket Ø		9.4 × 8.8	mm
Multi-fiber loose tube		standard	2 up to 12 fibers
Approx. weight		101	kg/km

Mechanical properties				
Tensile strength	during installation	3000	N	IEC 60794-1-2 E1
	in service	1500	N	
Min. bend radius	during installation	150*	mm	IEC 60794-1-2 E11
	in service	100*	mm	
Crush resistance	short-term	800*	N/cm	IEC 60794-1-2 E3
	long-term	400*	N/cm	
Water penetration	h = 1 m, 24 h, p < 3 m	p		IEC 60794-1-2 F5B

\* refers to the flat side of the cable

Thermal properties				
Temperature range	during installation	-10 to +50	°C	IEC 60794-1-2 F1
	in service	-20 to +70	°C	
	in storage	-40 to +70	°C	

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

Combustion properties				
Fire load		1.85	MJ/m	
Fire propagation	on a vertical single cable	p		IEC 60332-1
Fire propagation	on a vertical cable bundle	p		IEC 60332-3-24
Fire test	with circuit integrity (CI)	180	min.	IEC 60331-25
Smoke density		p		IEC 61034-2
Halogen acid gas	jacket material	p		IEC 60754-1
Degree of acidity	jacket material	p		IEC 60754-2
2002/95/EC (RoHS)		compliant		

p = passed