

Steel-armoured multi-fiber loose tube cables – Simplex and TWINTUBE



Simplex – up to 24 fibers



TWINTUBE p up to 24 fibers

Properties

- Steel-armoured indoor and outdoor cable
- Rodent-protected (steel-armoured)
- For high mechanical and thermal requirements
- Low smoke, halogen free and self-extinguishing
- Low fire load for high safety requirements

Applications

- For outdoor and indoor installations and in mechanically unprotected environments
- Data cable in distribution networks
- For installations directly in the ground

Design

Cable design	1 to 2 multi-fiber loose tubes, jelly-filled with 2 to 24 fibers
Strain relief	aramid yarn/glass-roving
Rodent protection	steel-armoured
Jacket material	LSFH™
Jacket colour	black

According to IEC 60794-1-2

Ordering information

24-.../W(ZN)HAH-...80
24-.../W(ZNG)HAH-...125

Please see page 161.

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Specification			Simplex	TWINTUBE	
Jacket Ø		mm	8.0	12.5	
Number of fibers			2 to 24	2 x 12	
Multi-fiber loose tube		mm	standard	standard	
Approx. weight		kg/km	82	200	

Mechanical properties					
Tensile strength	during installation	N	3000	3000	IEC 60794-1-2 E1
	in service	N	1500	1500	
Min. bend radius	during installation	mm	120	190 ¹⁾	IEC 60794-1-2 E11
	in service	mm	80	125 ¹⁾	
Crush resistance	short-term	N/dm	4000	8000 ¹⁾	IEC 60794-1-2 E3
	long-term	N/dm	2000	4000 ¹⁾	

Thermal properties					
Temperature range	during installation	°C	–10 to +50	–10 to +50	IEC 60794-1-22 F1
	in service	°C	–40 to +70	–20 to +70	
	in storage	°C	–40 to +70	–40 to +70	

Combustion properties					
Fire load		MJ/m	1.32	3.35	
Fire propagation	on a vertical single cable		p	p	IEC 60332-1-2
Fire propagation	on a vertical cable bundle		p	p	IEC 60332-3-24
Smoke density			p	p	IEC 61034-2
Halogen acid gas	jacket material		p	p	IEC 60754-1
Degree of acidity	jacket material		p	p	IEC 60754-2
Fire test	with circuit integrity (CI)	min.	180	180	IEC 60331-25
2011/65/EC (RoHS)			compliant		

p = passed

¹⁾ refers to the flat side of the cable