

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



### Design

Cable design	multi-fiber loose tube, jelly-filled
Strain relief	Aramide yarn
Jacket material	LSFH™
Jacket colour	black

### Properties

- Metal free indoor / outdoor cable
- Strain relief with Aramide yarn
- Halogen free and non-corrosive fire gases
- High chemical resistance against acids and alkalis
- Low smoke and self-extinguishing
- Low fire load for high safety requirements
- For MASTERLINE applications

### Applications

- Data cable in distribution networks
- Installation in indoor and outdoor areas
- For installation in cable ducts

According to IEC 60794-1-2

### Ordering information

12-.../BW(ZN)H-...35  
12-.../W(ZN)H-...50  
24-.../W(ZN)H-...50  
Please see page 145

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

Specification						
Jacket material		LSFH™	LSFH™	LSFH™		
Jacket Ø		3.5	5.0	5.0	mm	
Number of fibers each bundle		2 - 12	2 - 12	24		
Multi fiber loose tube		mini	standard	standard		
Approx. weight		11.4	27	27	kg/km	

Mechanical properties						
Tensile strength	during installation	900	600	600	N	IEC 60794-1-2 E1
	in service	250	400	400	N	
Min. bend radius	during installation	50	80	80	mm	IEC 60794-1-2 E11
	in service	35	50	50	mm	
Crush resistance	short-term	300	300	300	N/cm	IEC 60794-1-2 E3
	long-term	100	150	150	N/cm	
Impact resistance	W <sub>p</sub> = 1.4 J	50				
	W <sub>p</sub> = 2.21 J		50	50	impacts	IEC 60794-1-2 E4
Repeated bending	r = 35 mm / 1 kg	5000				
	r = 50 mm / 1 kg		5000	5000	cycles	IEC 60794-1-2 E6
Torsion	± 1440°	3			cycles	
Water penetration	h = 1 m, 24 h, p < 3 m	p				IEC 60794-1-2 F5B

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

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

Combustion properties						
Fire load		0.43	0.66	0.72	MJ/m	
Fire propagation	on a vertical single cable		p	p		IEC 60332-1
Fire propagation	on a vertical cable bundle		p	p		IEC 60332-3-24
Halogen acid gas	jacket material	p	p	p		IEC 60754-1
Degree of acidity	jacket material	p	p	p		IEC 60754-2
2002/95/EC (RoHS)		compliant				

p = passed