

FTTH indoor cables HOMESTAR



Design

Cable design	central strength member (non metallic) 1, 2 to 4 tight buffered tubes
Strain relief	Aramide yarn
Jacket material	LSFH™
Jacket colour	grey

Properties

- Metal free indoor and outdoor cable
- Strain relief with Aramide yarn
- For direct connector assembly
- Easy stripping
- Tight bending radii
- Low smoke, halogenfree and self-extinguishing

Applications

- Data cable in distribution network - FTTH
- Installation in indoor areas
- For horizontal and collapsed backbone cabling

According to IEC 60794-1-2

Ordering information

01-E9A1/F(ZN)H-...48
02-E9A1/FSN(ZN)H-...48
04-E9A1/FSN(ZN)H-...48
Please see page 143

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Specification

Number of fibers		1	2	4		
Jacket Ø		4.8	4.8	4.8	mm	
Tube Ø		0.9	0.9	0.9	mm	
Approx. weight		25.6	24.5	24.8	kg/km	

Mechanical properties

Tensile strength	during installation	400	500	500	N	IEC 60794-1-2 E1
	in service	200	300	300	N	
Min. bend radius	during installation	10	10	10	mm	IEC 60794-1-2 E11
	in service	10	10	10	mm	
Crush resistance	short-term	2000	1500	1500	N/cm	IEC 60794-1-2 E3
	long-term	150	150	150	N/cm	
Impact resistance	Wp = 2.21 J	100	100	100	impacts	IEC 60794-1-2 E4
Repeated bending	r = 30 mm, weight = 1 kg	5000	5000	5000	cycles	IEC 60794-1-2 E6
Kink resistance	r = 7.5 mm	p	p	p		IEC 60794-1-2 E10
Torsion	angle = ± 360° / length = 500 mm	1000	1000	1000	cycles	IEC 60794-1-2 E7
H+S staple test	distance 2 cm / number of 50	p	p	p		HUBER+SUHNER

Thermal properties

Temperature range	during installation		-25 to +70	°C	IEC 60794-1-2 F1
	in service		-25 to +70	°C	
	in storage		-25 to +70	°C	

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

Combustion properties

Fire load		0.6	0.58	0.59	MJ/m	
Fire propagation	on a vertical single cable	p	p	p		IEC 60332-1-2
Smoke density		p	p	p		IEC 61034-2
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