

FTTH indoor cables with semi-tight tubes



Design

Cable design	central strength member (non-metallic) 4 semi-tight tubes
Strain relief	Aramide yarn
Jacket material	LSFH™
Jacket colour	white

Properties

- Metal free indoor and outdoor cable
- Strain relief with Aramide yarn
- For direct connector assembly
- Tight bending radii
- Low smoke, halogen free 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

04-.../CWSN(ZN)H-...42
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FTTH indoor cables with semi-tight tubes

Specification

Number of fibers		4		
Jacket Ø		4.2	mm	
Tube Ø		0.9	mm	
Approx. weight		16	kg/km	

Mechanical properties

Tensile strength	during installation	1000	N	IEC 60794-1-2 E1
	in service	300	N	
Min. bend radius	during installation	10	mm	IEC 60794-1-2 E11
	in service	15	mm	
Crush resistance	short-term	800	N/cm	IEC 60794-1-2 E3
	long-term	300	N/cm	
Impact resistance	Wp = 2.21 J	100	impacts	IEC 60794-1-2 E4
Repeated bending	r = 30 mm, weight = 1 kg	1000	cycles	IEC 60794-1-2 E6
Kink resistance	r = 6 mm	p		IEC 60794-1-2 E10
Coiling capability	length = 50 m/r = 115 mm	3	cycles	HUBER+SUHNER
Torsion	angle = ±360°/length=500 mm	100	cycles	IEC 60794-1-2 E7
H+S crush resistance	short-term	800	N/5 mm	HUBER+SUHNER
	long-term	150	N/5 mm	

Thermal properties

Temperature range	during installation	-10 to +60	°C	IEC 60794-1-2 F1
	in service	-25 to +70	°C	
	in storage	-40 to +70	°C	

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

Combustion properties

Fire load		0.35	MJ/m	
Fire propagation	on a vertical single cable	p		IEC 60332-1-2
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

FTTH indoor cables with tight tubes 0.6 mm



Design

Cable design	4 tight tubes buffered 0.6 mm (easy stripping)
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
- Tight bending radii
- Low smoke, halogen free and self-extinguishing
- Easy stripping

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

04-E9A2/V(ZN)H-...28
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FTTH indoor cables with tight tubes 0.6 mm

Specification			
Jacket Ø		2.8	mm
Tube Ø		0.6	mm
Approx. weight		8	kg/km

Mechanical properties			
Tensile strength	during installation	400	N
	in service	200	N
Min. bend radius	during installation	10	mm
	in service	10	mm
Crush resistance	short-term	200	N/cm
	long-term	100	N/cm
Impact resistance	W _p = 1 J	5	impacts
Repeated bending	r = 30 mm, weight = 1 kg	5000	cycles
Kink resistance	r = 6 mm	3	cycles
Coiling capability	length = 100 m / r = 70 mm	3	cycles
H+S staple test	distance 0.7 cm / number of 50	p	

Thermal properties			
Temperature range	during installation	-20 to +70	°C
	in service	-40 to +70	°C
	in storage	-40 to +70	°C

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

Combustion properties			
Fire load		0.185	MJ/m
Fire propagation	on a vertical single cable	p	IEC 60332-1
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