Riser cables (distribution cables)

Design

Cable design	central strength member (non-metallic) 4 to 24 tight tube fibers strain relief (Aramide yarn) 1 ripcord
Tube colour	according to colour code
Jacket material	LSFH™
Jacket colour	black

Properties

- Metal free indoor cable
- Strain relief with Aramide yarn
- For direct connector assembly
- Ripcord for easy jacket removal
- For high mechanical and thermal stability
- Low smoke, halogen free and self-extinguishing
- For SMARTLINE applications

Applications

- Internal building distribution
- Rising zone
- LAN
- For installation in cable ducts
- FTTD (fiber to the desk)
- Applications with high safety requirements
- For horizontal and collapsed backbone cabling

According to IEC 60794-1-2

Ordering information

04-.../FSN(ZN)H-...50
06-.../FSN(ZN)H-...55
08-.../FSN(ZN)H-...60
12-.../FSN(ZN)H-...70
16-.../FSN(ZN)H-...85
24-.../FSN(ZN)H-...88
Please see page 142

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Specification		4	6	8	12	16	24		stranding
Jacket Ø		5.0	5.5	6.0	7.0	8.5	8.8	mm	
Tube Ø		0.9	0.9	0.9	0.9	0.9	0.9	mm	with one fiber each
Strength member Ø		0.44	0.9	1.5	2.8	3.9	1.8	mm	
Channel marking on single fiber cable		coloured							
Approx. weight		28	30	33	52	64	77	kg/km	
Mechanical properties									
Tensile strength	during installation	1200	1600	2400	3000	4200	4500	N	IEC 60794-1-2 E1
	in service	400	550	800	1000	1400	1500	N	
Min. bend radius	during installation	100	100	120	130	130	130	mm	IEC 60794-1-2 E11
	in service	50	50	60	70	85	100	mm	
Crush resistance	short-term	1800	1800	1800	1800	1800	1500	N/cm	IEC 60794-1-2 E3
	long-term	300	300	300	300	300	200	N/cm	
Impact resistance	Wp = 2.21 J, r = 25 mm	100	100	100	100	100	100	impacts	IEC 60794-1-2 E4
Repeated bending	r = 40 mm , weight = 2 kg r = 50 mm, weight = 2.5 kg	1000	2000	2000	2000	2000	2000	cycles	IEC 60794-1-2 E6
Thermal properties									
Temperature range	during installation	–25 to +50						°C	IEC 60794-1-2 F1
	in service	–20 to +70						°C	
	in storage	–25 to +70						°C	

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

Combustion properties									
Fire load		0.4	0.6	0.8	1.1	1.8	1.8	MJ/m	
Fire propagation	on a vertical single cable	p	p	p	p	p	p		IEC 60332-1
Fire propagation	on a vertical cable bundle	p	p	p	p	p	p		IEC 60332-3
Smoke density		p	p	p	p	p	p		IEC 61034-2
Halogen acid gas	jacket material	halogen free							IEC 60754-1
Degree of acidity	jacket material	p	p	p	p	p	p		IEC 60754-2
2002/95/EC (RoHS)		compliant							

p = passed