

## Field cables 3STAR



### Design

Cable design	2 to 4 tight tubes
Strain relief	Aramide yarn
Jacket material	LSFH™/TPU
Jacket colour	black

### Properties

- For indoor and outdoor
- Strain relief with Aramide yarn
- Tube can be stripped minimal 30 mm in one piece
- Low smoke, halogen free and self-extinguishing
- Jacket material according to UL 94V-0
- Metal free
- Tight bend radii
- For high thermal and mechanical stability

### Applications

- For fixed installation
- Data cabling for harsh environment
- Connection of outdoor devices (e.g. FTTA)
- LSFH™ –for applications involving high safety requirements in case of fire

According to IEC 60794-1-2

### Ordering information

02-.../FSN(ZN)HZ-...70

04-.../FSN(ZN)HZ-...70

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Specification				
Number of fibers		2	4	
Jacket Ø		7.0	7.0	mm
Tube Ø		0.9	0.9	mm
Approx. weight		52	53	kg/km

Mechanical properties					
Tensile strength	during installation	2500	2500	N	IEC 60794-1-2 E1
	in service	1000	1000	N	
Min. bend radius	during installation	40	40	mm	IEC 60794-1-2 E11
	in service	40	40	mm	
Crush resistance	short-term	SM: 1500 MM: 800	SM: 1500 MM: 800	N/cm	IEC 60794-1-2 E3
	long-term	SM: 900 MM: 400	SM: 900 MM: 400	N/cm	
Torsion	±1080°, l = 2000 mm	10'000	10'000	cycles	IEC 60794-1-2 E7

Thermal properties					
Temperature range	during installation	-25 to +60		°C	IEC 60794-1-2 F1
	in service	-40 to +85		°C	
	in storage	-40 to +60		°C	

Combustion properties					
Fire load		1.1	1.2	MJ/m	
Fire propagation	on a vertical single cable	p	p		IEC 60332-1-2
	on a vertical cable bundle	p	p		IEC 60332-3-24
Fire test	on a vertical cable bundle	p	p		UL 1666
Halogen acid gas	jacket material	p	p		IEC 60754-1
Degree of acidity	jacket material	p	p		IEC 60754-2
2002/95/EC (RoHS)		compliant			

p = passed