

Rugged simplex cables



Properties

- Metal free indoor and outdoor cable
- Strain relieved with aramide yarn
- For direct connector assembly with strain relief
- High chemical resistance against acids and alkalis
- For high mechanical and thermal stability
- Halogen free and non-corrosive fire gases
- Improved crash resistance

Applications

- Industry LAN
- Mobile data cablings in harsh environment
- Machinery cablings, drag chains

Design

Cable design	1 single fiber cable with tight tubes	
Strain relief	aramide yarn	
Jacket material	TPU/black	
Jacket colour	E9	yellow
	G50 - OM2	orange
	G62.5 - OM1	orange

According to IEC 60794-1-2

Ordering information

01-.../FJH(ZN)Z...27

Please see page 166.

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Specification			
Jacket Ø	mm	6.0	
Single fiber cable Ø	mm	2.7	
Tube Ø	mm	0.9	
Approx. weight	kg/km	40	

Mechanical properties				
Tensile strength	during installation	N	4000	IEC 60794-1-2 E1
	in service	N	1500	
Min. bend radius	during installation	mm	90	IEC 60794-1-2 E11
	in service	mm	60	
Crush resistance	short-term	N/dm	20 000	IEC 60794-1-2 E3
	long-term	N/dm	10 000	
Impact resistance	Wp = 2.25J	impacts	150	IEC 60794-1-2 E4
Repeated bending	r = 30 mm, weight = 2.5 kg	cycles	10 000	IEC 60794-1-2 E6
Flexing	r = 77 mm velocity = 2.2 m/s L = 2 m	cycles	100 000	HUBER+SUHNER drag chain test

Thermal properties				
Temperature range	during installation	°C	-10 to +60	IEC 60794-1-22 F1
	in service	°C	-25 to +70	
	in storage	°C	-40 to +70	

Combustion properties			
Fire load		MJ/m	0.57
Halogen acid gas	jacket material		p
Degree of acidity	jacket material		p
2011/65/EC (RoHS)			compliant

p = passed