

Mobile field cables



Design

Cable design	2, 4 and 8 tight tubes
Strain relief	Aramide yarn
Jacket material	TPU
Jacket colour	black

Properties

- High tensile strength
- For direct connector assembly
- Excellent coiling capability
- High chemical resistance against acids and alkalis
- For high mechanical and thermal stability
- Halogen free and non-corrosive fire gases
- Improved crush resistance
- UV-protected, suitable for outdoor use
- Metal free
- Easy stripping
- High tensile strength, high abrasion and cut resistance

Applications

- Fixed or mobile data cabling (MASTERLINE mobile)
- Data cabling for harsh environment
- Military tactical field use
- Field video broadcast
- Machine cabling, drag chains

According to IEC 60794-1-2

Ordering information

02-.../FSN(ZN)Z-...56

04-.../FSN(ZN)Z-...56

08-.../FSN(ZN)Z-...68

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Specification					
Jacket Ø	5.6	5.6	6.8	mm	
Tube Ø	0.9	0.9	0.9	mm	
Number of tight tubes	2	4	8		
Channel marking on single fiber	coloured				
Approx. weight	24	26	40	kg/km	

Mechanical properties						
Tensile strength	during installation	4000	4000	4000	N	IEC 60794-1-2 E1
	in service	2000	2000	2000	N	
Min. bend radius	during installation	90	90	90	mm	IEC 60794-1-2 E11
	in service	45	45	45	mm	
Crush resistance SM	short-term	2100	2100	1900	N/cm	IEC 60794-1-2 E3
	long-term	600	600	200	N/cm	
Crush resistance MM	short-term	1900	1900	2100	N/cm	
	long-term	800	800	600	N/cm	
Impact resistance	Wp = 2.21 J	300	300	300	impacts	IEC 60794-1-2 E4
Repeated bending	r = 50 mm, weight = 2 kg	20'000	10'000	10'000	cycles	IEC 60794-1-2 E6
	r = 100 mm, weight = 1 kg r = 120 mm, weight = 2 kg Velocity = 1.44 m/s	100'000	100'000	100'000	cycles	IEC 60794-1-2 E8
Coiling capability	l = 500 m, r = 45 mm	5	5	5	cycles	HUBER+SUHNER
	l = 500 m, r = 80 mm					
Torsion	±1440°, l = 1000 mm	1000	1000	1000	cycles	IEC 60794-1-2 E7

Thermal properties						
Temperature range	during installation	-46 to +85			°C	IEC 60794-1-2 F1
	in service	-60 to +85			°C	
	in storage	-60 to +85			°C	

Combustion properties					
Fire load	0.5	0.5	0.75	MJ/m	
2002/95/EC (RoHS)	compliant				