

# Mobile field cables



## 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

## Design

Cable design	2, 4, 8 and 12 tight tubes
Strain relief	aramide yarn
Jacket material	TPU
Jacket colour	black

According to IEC 60794-1-2

## Ordering information

02.../FSN(ZN)Z...56
04.../FSN(ZN)Z...56
08.../FSN(ZN)Z...68
12.../FSN(ZN)Z...80

Please see page 147.

# Mobile field cables

Specification							
Number of Fiber		2	4	8	12		
Jacket Ø	mm	5.6	5.6	6.8	8.0		
Tube Ø	mm	0.9	0.9	0.9	0.9	coloured	
Approx. weight	kg/km	24	26	40	53		

Mechanical properties								
Tensile strength	during installation		N	4000	4000	4000	4000	IEC 60794-1-2 E1
	in service		N	2000	2000	2000	2000	
Min. bend radius	during installation		mm	90	90	90	120	IEC 60794-1-2 E11
	in service		mm	45	45	45	80	
Crush resistance	short-term	E9 G50	N/dm	21 000 19 000	21 000 19 000	21 000 19 000	10 000 10 000	IEC 60794-1-2 E3
	long-term	E9 G50	N/dm	6000 8000	6000 8000	6000 2000	2000 2000	
Repeated bending	r=50 mm, weight = 2 kg r=80 mm, weight = 5 kg		cycles	20 000	20 000	20 000	20 000	IEC 60794-1-2 E6
Flexing	r=100 mm, weight = 1 kg r=120 mm, weight = 2 kg r=80 mm, weight = 1.5 kg		cycles	100 000	100 000	100 000	100 000	IEC 60794-1-2 E8
Impact resistance	Wp = 2.21 J		impacts	300	300	300	300	IEC 60794-1-2 E4
Coiling capability	length= 500 m/r=45 mm length= 500 m/r=80 mm length= 100 m/r=80 mm		cycles	5	5	5	5	HUBER+SUHNER
Torsion	± 1440°, l = 1000 mm ± 360°, l = 1000 mm		cycles	1000	1000	1000	1000	IEC 60794-1-2 F5B IEC 60794-1-2 E7

Thermal properties								
Temperature range	during installation		°C	-45 to +85				IEC 60794-1-22 F1
	in service		°C	-60 to +85				
	in storage		°C	-60 to +85				

Combustion properties							
Fire load		MJ/m	0.5	0.5	0.75	0.7	
2011/65/EC (RoHS)			compliant				

p = passed