Drag chain cables

Design

Cable design	up to 12 tight tubes strength member
Strain relief	Aramide yarn
Jacket material	TPU
Jacket colour	black

Properties

- Strain relieved with Aramide yarn
- For direct connector assembly
- Tube can be stripped minimal 30 mm in one piece
- High chemical resistance against acids and alkalies
- For high mechanical and thermal stability
- Halogen free and non-corrosive fire gases
- Improved crush resistance
- Longitudinal and transversal watertight cable
- Metal free

Applications

- Medium to large drag chains
- Cabling in industrial applications
- As control or data cable in industry robots, cranes, production lines and automation systems
- Cable design allows for a permanent load with more than one million drag chain cycles

According to IEC 60794-1-2

Ordering information

up to 12-.../FSN(ZN)YZ-...130
Please see page 160

Drag chain cables

Specification				
Jacket Ø		13	mm	
Tube Ø		0.9	mm	
Channel marking on single fiber		coloured		
Approx. weight		133	kg/km	

Mechanical properties				
Tensile strength	during installation	4000	N	IEC 60794-1-2 E1
	in service	2000	N	
Min. bend radius	during installation	200	mm	IEC 60794-1-2 E11
	in service	100	mm	
Crush resistance	short-term	400	N/cm	IEC 60794-1-2 E3
	long-term	200	N/cm	
Repeated bending	r = 100 mm, weight = 5 kg	5000	cycles	IEC 60794-1-2 E6
Flexing	r = 100 mm velocity = 2 m/s, L = 2.0 m	1 Mio.	cycles	HUBER+SUHNER drag chain test
Water penetration	h = 1 m, 24 h, p < 3 m	p		IEC 60794-1-2 F5A

Thermal properties				
Temperature range	during installation	-10 to +50	°C	IEC 60794-1-2 F1
	in service	-30 to +90	°C	
	in storage	-40 to +90	°C	

Combustion properties			
Fire load	3.49	MJ/m	
2002/95/EC (RoHS)	compliant		

p = passed