

RADOX® Drag chain cable



Properties

- Strain relieved with aramide yarn
- For direct connector assembly
- High chemical resistance against acids and alkalis
- For high mechanical and thermal stability
- Halogen free and non-corrosive fire gases
- Improved crush resistance
- Metal free
- Weld bead resistant cable outer jacket

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

Design

Cable design	up to 12 tight tubes strength member
Strain relief and rodent protection	aramide yarn
Jacket material	RADOX®
Jacket colour	black

According to IEC 60794-1-2

Ordering information

12.../FSN(ZN)YR...130

Please see page 169.

Drag chain cable

Specification			
Fiber types	mm	E9.G50	
Jacket Ø	mm	13	
Tube Ø	mm	0.9	coloured
Approx. weight	kg/km	160	

Mechanical properties				
Tensile strength	during installation	N	4000	IEC 60794-1-2 E1
	in service	N	2000	
Min. bend radius	during installation	mm	200	IEC 60794-1-2 E11
	in service	mm	100	
Crush resistance	short-term	N/dm	15 000	IEC 60794-1-2 E3
	long-term	N/dm	5000	
Repeated bending	r = 100 mm, weight = 5 kg	cycles	5000	IEC 60794-1-2 E6
Flexing	r = 120 mm velocity = 0.5 m/s, L = 2.0 m	cycles	25 000	IEC 60794-1-2 E8

Thermal properties				
Temperature range	during installation	°C	-10 to +50	IEC 60794-1-22 F1
	in service	°C	-30 to +85	
	in storage	°C	-40 to +85	

Combustion properties				
Fire load		MJ/m	4.6	
Fire propagation	on a vertical single cable		p	IEC 60332-1-2
2011/65/EC (RoHS)			compliant	

p = passed