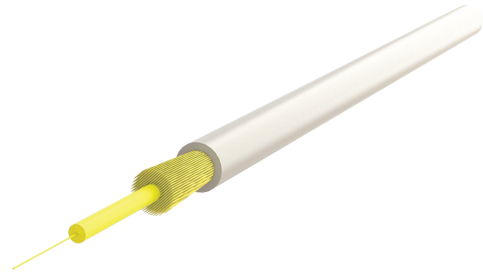


## Drop Fiber Cable 2.7 mm

Design Type I-V(ZN)H Indoor 2.7 mm

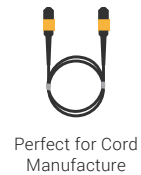
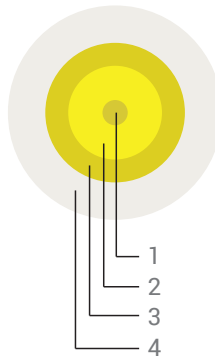
### Properties

- Metal free indoor cable
- Completely dry design
- For direct connector assembly
- High flexibility and light weight
- Halogen free and non-corrosive fire gases
- Low fire load for high safety requirements
- Jacket material in accordance with UL 94V-0



### Cable Construction

1 Fiber	SM (250 μ)
2 Semi-Tight Buffer Tube	900μ LSZH
3 Strength Member	Aramid yarn
4 Outer Jacket	LSZH



### Sheath Marking

Print Color/Method	Black / Ink-Jet	(length marking 1 m intervals)
Cable Printing	Manufacturer name, fiber count, fiber type, product code, cable type, date, meter marking	

### Optical Characteristics and Physical Properties

Fiber Type		ITU-T G.657 A2	ITU-T G.657 B3
Jacket Color	-	Ivory	Ivory
Mode Field Diameter (μm)	@1310 nm	8.8 ±0.4	8.8 ±0.4
	@1550 nm	9.8 ±0.5	9.8 ±0.5
Cladding Diameter (μm)	-	125 ±0.7	125 ±0.7
Primary Coating Diameter (μm)	-	242 ±7	242 ±5
Attenuation (max. in cable) (dB/km)	@1310 nm	≤ 0.35	≤ 0.35
	@1550 nm	≤ 0.22	≤ 0.21
Attenuation with Bending (dB/km)	1 turn on 10 mm radius mandrel	@1550 nm ≤ 0.1	≤ 0.05
		@1625 nm ≤ 0.2	≤ 0.1
	1 turn on 7.5 mm radius mandrel	@1550 nm ≤ 0.5	≤ 0.08
		@1625 nm ≤ 1.0	≤ 0.15
	1 turn on 5.0 mm radius mandrel	@1550 nm -	≤ 0.15
		@1625 nm -	≤ 0.25

## Mechanical and Environmental Properties

Test	Test Conditions	Value	Unit	Method
Tube Diameter	-	0.9	mm	IEC 60811-203
Cable Diameter	-	2.7	mm	IEC 60811-203
Approx. Weight	-	7.0	kg/km	-
Max. Tensile Strength	During installation	400	N	IEC 60794-1-2 E1
	In service	200		
Min. Bending Radius	During installation	7.5	mm	IEC 60794-1-2 E11
	In service	10		
Crush Resistance	Short term	4000	N/dm	IEC 60794-1-2 E3
	Long term	1000		
Impact Resistance	Wp=1.0 J	20	impact	IEC 60794-1-2 E4
Repeated Bending	r=25mm	5000	cycles	IEC 60794-1-2 E6
Temperature Range	During installation	-10 to +50	°C	IEC 60794-1-22 F12
	In service	-25 to +70		
	In storage	-25 to +70		

## Combustion Properties

Fiber Type	Test Conditions	Value	Unit	Result	Method
Fire Load	-	0.17	Mj/m	-	-
Fire Propagation	On a vertical single cable	-	-	passed	IEC 60332-1-2
Smoke Density	-	-	-	passed	IEC 61034-2
Halogen Acid Gas	Jacket material	-	-	passed	IEC 60754-1
Degree of Acidity	Jacket material	-	-	passed	IEC 60754-2

## Cable Coding System

Type	Fiber Count	Cable Type	Diameter	Buffer Type	Fiber Type	Sheath Mat.	Color
Indoor: I	1 Fiber: 01	Simplex: SX	2.7 mm: 27	S-Tight 900µm: S9H  Tight 900µm: T9H	SM G.657 A2: A2 SM G.657 B3: B3	LSZH: H	Ivory: IV A2