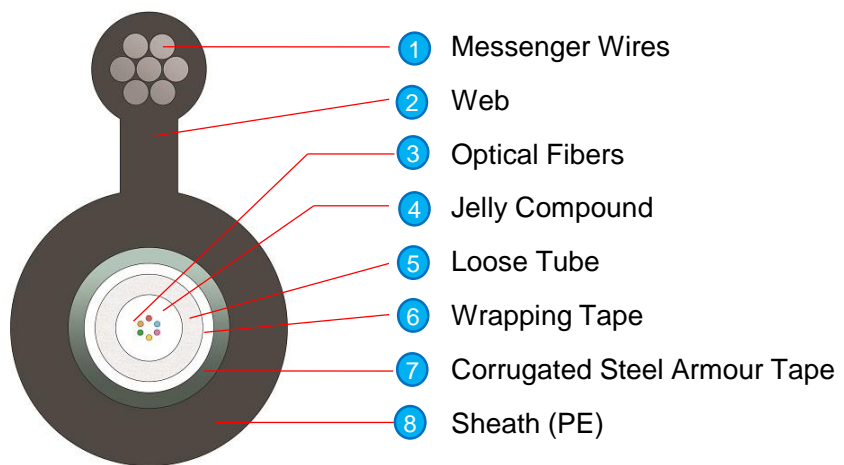




### OVERVIEW

Zemecs F131-D0 series Fig.-8 type fiber optic cables are designed and manufactured to exceed performances specified by ITU-T G652.D, IEC 60793, IEC 60974, ISO/IEC 11801 and TIA 568.3-D enabling high speed data transmission in aerial applications. The fibers are constructed into a jelly filled loose tube wrapped by a transparent tape and longitudinally laminated by a corrugated steel tape. Finally the cable is jacketed with supporting steel wires. Delivered in 2.000m. wooden drums, the PE sheathed cables are used to provide communications backbone in rural areas as well as in areas under harsh environmental conditions.



Drawing is not scaled.

### FEATURES

- Exceeds requirements of ITU-T G652.D, IEC 60793, IEC 60974, ISO/IEC 11801 and TIA 568.3-D standards
- UV resistant high density PE sheath
- Moisture and crush resistant
- Gel filled cable core for water tightness
- Constructed up to 24 fibers

### APPLICATIONS

- Telecommunications backbone networks in rural areas
- Long distance data communications via aerial lines
- CATV, railway and military transmission networks
- Interbuilding cable crossings
- Cabling in areas under harsh environmental conditions

### MATERIAL AND PHYSICAL SPECIFICATIONS

Cable Outer Diameter	<b>2-12F:</b> 8,2x16,6 <b>14-24F:</b> 9,1x17,4 ± 0,20	mm.
Sheath Material	PE	
Sheath Thickness	1,80 ± 0,10	mm.
Loose Tube Outer Diameter	2,00 ± 0,07	mm.
Cable Weight	<b>2-12F :</b> 160 <b>14-24F:</b> 170 ± %3	kg./km.
Sheath Colour	Black(standard)	

### COLOUR CODING OF FIBERS AND LOOSE TUBE

Fiber #	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Red	Grey	Yellow	Brown	Violet	Black	White	Pink	Aqua
Fiber #	13	14	15	16	17	18	19	20	21	22	23	24
Colour	Blue-Black	Orange-Black	Green-Black	Red-Black	Grey-Black	Yellow-Black	Brown-Black	Violet-Black	Black-Black	White-Black	Pink-Black	Aqua-Black



**COMPLIANCE**

Standards For Generic Cabling And Cabling Components			
• ITU-T G652.D	• ISO/IEC 11801 V.2.1		
• IEC 60793-2	• EN 50173		
• IEC 60794-2-20	• ANSI/TIA/EIA-568.3-D		
Standards For The Restriction Of Use Of Hazardous Substances In Electrical And Electronic Equipments			
• 2011/65/EU (RoHS-2)			
Test Standards			
• Tension	IEC 60794-1-2E1	• Twist	IEC 60794-1-2E7
• Crush	IEC 60794-1-2E3	• Cable Bending	IEC 60794-1-E11
• Impact	IEC 60794-1-2E4	• Temp.Cycling	IEC 60794-1-F1
• Repeated Bending	IEC 60794-1-2E6		

**OPTICAL SPECIFICATIONS**

Fiber Type	Singlemode ITU-T G652.D	
Attenuation (@1.310 nm./1.550nm.)	0,34 / 0,20	dB/km., Max.
Chromatic Dispersion (@1.310 nm./1.550nm.)	3,5 / 18	ps/nm.km., Max.
Zero Dispersion Wavelength ( λo )	1.300 ≤ λo ≤ 1.324	Nm.
Zero Dispersion Slope (So)	0,092	ps/(nm <sup>2</sup> .km.) Max.
Cable Cutoff Wavelength (λcc)	1.260	nm., Max.

**ENVIRONMENTAL SPECIFICATIONS**

Transportation and Storage Temperature	-50 / +70	°C
Installation Temperature	-30 / +60	°C
Operation Temperature	-40 / +70	°C
Relative Humidity	10 - 90, non-condensing	%

**MECHANICAL SPECIFICATIONS**

Tensile Strength (Installation/Operation)	3.000 / 1.500	N./100mm.
Crush Strength (Installation/Operation)	1.500 / 800	N./100mm.
Bending Radius (Installation/Operation)	20xO.D. / 10xO.D.	

**GEOMETRICAL SPECIFICATIONS**

Mode Field Diameter (@1.310nm./1.550nm.)	9,20 / 10,40	µm.
Cladding Diameter	125,0±1,0	µm.
Core/Coating Concentricity Error	1	%, Max.
Coating Diameter	245±7	µm.
Coating/Cladding Concentricity Error	12	µm., Max.
Core/Cladding Concentricity Error	0,6	µm., Max.

**PART NUMBER CODING**

Part Number	Product Description
F131-D0-1ESD-FFFL	Zemecs Singlemode Central Loose Tube Steel Armour Aerial PE Fiber Optic Cable, 2.000m. Reel

FFF: Fiber Count	
001:	1
002:	2
004:	4
006:	6
008:	8
012:	12
016:	16
024:	24

