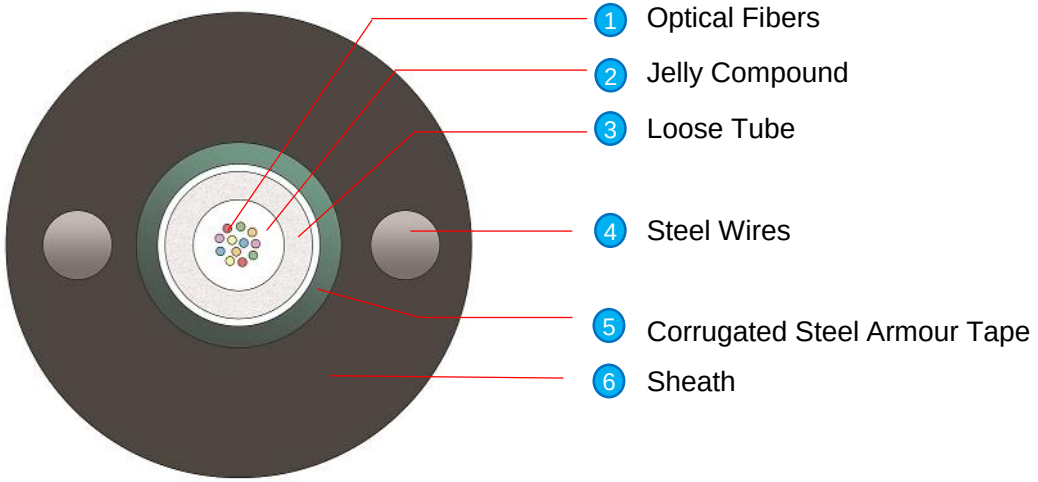
OVERVIEW

Zemecs F111-S0 series fiber optic cables are designed and to exceed performances specified by ITU-T G652.D, IEC 60793, IEC 60974, ISO/IEC 11801 and TIA 568.3-D enabling high speed transmission to long distances in indoor and outdoor applications.

The fibers are constructed into a jelly filled loose tube and laminated by corrugated steel tape armour over water blocking layer. The cable is jacketed with two parallel steel wires placed symmetrically along the steel tape which increases the strength of the cable. The LSOH sheathed cable is constructed up to 12 fibers and delivered in wooden drums of 500, 1.000 or 2.000m. They can be laid down on trays, ducts or pipes.



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 LSOH (low smoke zero halogen) sheath
- Gel filled cable core for water tightness
- Increased tensile strength through the use of symmetrically placed steel wires
- Small outer diameter saving space inside ducts
- Low friction sheath enabling easy pulling through ducts
- Constructed up to 12 fibers

APPLICATIONS

- Indoor and outdoor network backbones
- Duct, pipe or tray installations
- Interbuilding cable crossings

MATERIAL AND PHYSICAL SPECIFICATIONS

Cable Outer Diameter	7,20± 0,20	mm.
Sheath Material	LSOH (Low Smoke Zero Halogen)	
Sheath Thickness	1,80± 0,20	mm.
Steel Armour Thickness	0,155 ± 10%	mm.
Loose Tube Outer Diameter	2,00 ± 0,07	mm.
Cable Weight	65,00± %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

COMPLIANCE

Standards For Generic Cabling And Cabling Components	
• ITU-T G652.D	• ISO/IEC 11801 Ed.2.1
• IEC 60793-2-50	• 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)

Standards For Flammability, Halogen Acidity And Smoke Performance		
• IEC 60332-1-1:2004	• IEC 61034-2:2005+A1:2013	• EN 50399:2011+A1:2016
• IEC 60754-2:2011	• EN 50575: 2014 + A1: 2016	

Test Standards			
• Tension	IEC 60794-1-2E1	• Twist	IEC 60794-1-2E7
• Crush	IEC 60794-1-2E3	• Cable Bend	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^2.km.) Max.
Cable Cutoff Wavelength (λcc)	1.260	nm., Max.

ENVIRONMENTAL SPECIFICATIONS

Transportation and Storage Temperature	-40 / +80	ºC
Installation Temperature	-30 / +60	ºC
Operation Temperature	-40 / +80	ºC
Relative Humidity	10 - 90, non-condensing	%

MECHANICAL SPECIFICATIONS

Tensile Strength (Installation/Operation)	1.500 / 600	N./100mm.
Crush Strength (Installation/Operation)	1.000 / 300	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
F111-S0-1ZSD-FFFY	Zemecs Singlemode Central Loose Tube Steel Armour Single Sheath LSOH Fiber Optic Cable

FFF: Fiber Count		Y: Length And Package Type	
001	1	S	500m. Reel
002	2	M	1.000m. Reel
004	4	L	2.000m. Reel
006	6		
008	8		
012	12		