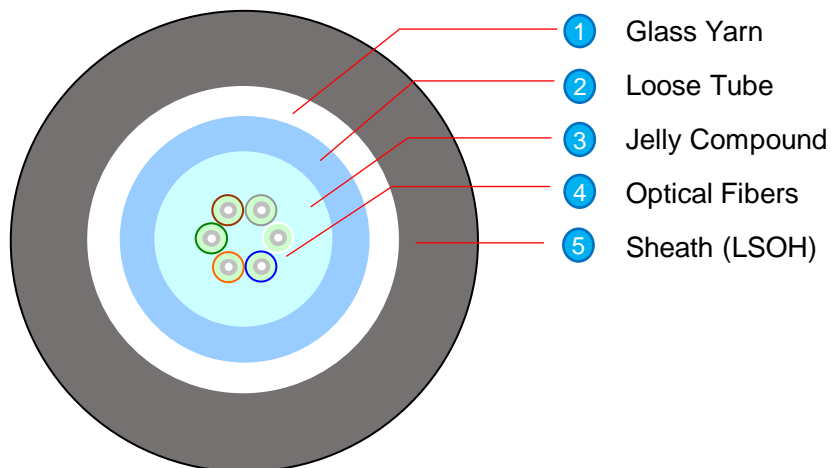




OVERVIEW

Zemecs F111-L0 series multimode OM4 fiber optic cables are designed and to exceed performances specified by ITU-T G651.1, IEC 60793, IEC 60794, 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 wrapped by strengthening glass yarn on a water blocking layer. The LSOH sheathed cable is constructed up to 24 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 G651.1, IEC 60793, IEC 60794, ISO/IEC 11801 and TIA 568.3-D standards
- UV resistant LSOH (low smoke zero halogen) sheath
- Rodent protection through the use of glass yarn
- Gel filled cable core for water tightness
- Small outer diameter saving space inside ducts
- Low friction sheath enabling easy pulling through ducts
- Constructed up to 24 fibers

APPLICATIONS

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

MATERIAL AND PHYSICAL SPECIFICATIONS

Cable Outer Diameter	4-12F: 6,80 16-24F: 7,60 (± 0,20)	mm.
Sheath Material	LSOH (Low Smoke Zero Halogen)	
Sheath Thickness	4-12F: 1,80 16-24F: 2,20 (± 0,20)	mm.
Loose Tube Outer Diameter	3,00 ± 0,07	
Cable Weight	4-12F: 55,00 16-24F: 68,00 (± %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
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 G651.1	• ISO/IEC 11801 Ed.2.1		
• IEC 60794-2-20	• EN 50173		
• IEC 60793-2-10	• 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 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	Multimode OM4 ITU-T G651.1	
Numerical Aperture	0,20±0,015	
Attenuation (@850nm./1.300nm.)	2,5 / 0,70	dB/km., Max.
Temperature Induced Attenuation (@-60°C - +85 °C)	0,10	dB/km., Max.
OFL Bandwidth ('@850nm. / 1.300nm.)	3.500 / 500	Mhz.km., Min.
Supported Distances		
10 Gigabit Ethernet SX @850nm.	550	m.
Gigabit Ethernet SX @850nm.	1.000	
Gigabit Ethernet LX @1.300nm.	800	
40&100 Gigabit Ethernet @850nm.	150	

ENVIRONMENTAL SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

Tensile Strength (Installation/Operation)	1.200 / 800	N./100mm.
Crush Strength (Installation/Operation)	1.000 / 300	N./100mm.
Bending Radius (Installation/Operation)	20xO.D. / 10xO.D.	

GEOMETRICAL SPECIFICATIONS

Core Diameter	50±2,5	µm.
Cladding Diameter	125,0±1,0	µm.
Cladding Noncircularity Error	1	%, Max.
Coating Diameter	245±7	µm.
Coating/Cladding Concentricity Error	12	µm., Max.
Core/Cladding Concentricity Error	1,5	µm., Max.

PART NUMBER CODING

Part Number	Product Description
F111-L0-1ZM4-FFFY	Zemecs Multimode OM4 Central Loose Tube Single Sheath Unarmoured 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	
016 16	
024 24	

