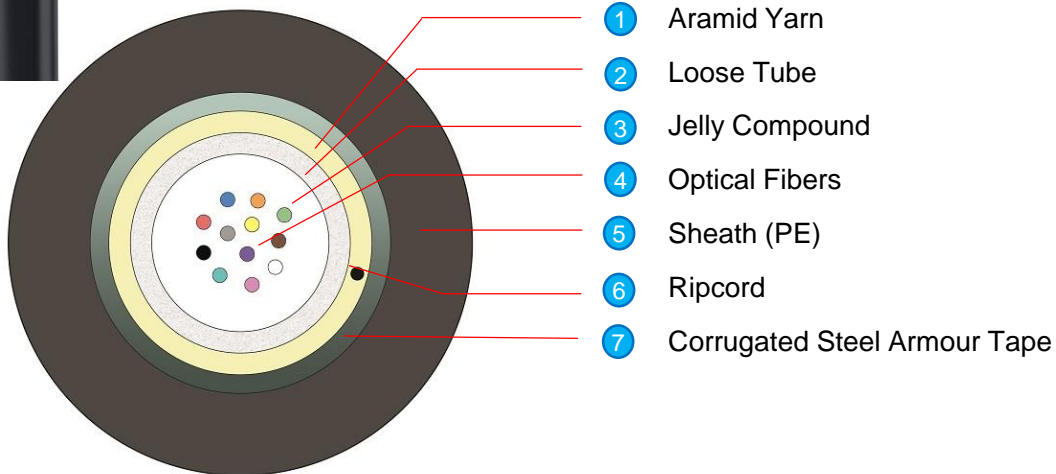




OVERVIEW

Zemecs F111-C0 series multimode OM3 fiber optic cables are designed and manufactured to exceed performances specified by ITU-T G651, 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 wrapped by strengthening aramid yarn on a water blocking layer. Corrugated steel armour tape is applied overall and finally the cable is jacketed with a ripcord. They are delivered in wooden drums from 500 to 2.000m.



Drawing is not scaled

FEATURES

- Exceeds requirements of ITU-T G651.1, IEC 60793, IEC 60974, ISO/IEC 11801 and TIA 568.3-D
- PE sheath
- Increased tensile strength through the use of aramid yarn
- Increased crush strength through the use of corrugated steel armour tape
- 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

MATERIAL AND PHYSICAL SPECIFICATIONS

Cable Outer Diameter	4-12F: 7,20	16-24F: 8,20	(± 0,20)	mm.
Outer Sheath Material	HDPE			
Outer Sheath Thickness	4-12F: 1,80	16-24F: 2,20	(± 0,20)	mm.
Steel Armour Thickness	0,155 ± 10%			mm.
Loose Tube Outer Diameter	2,00 ± 0,07			mm.
Loose Tube Inner Diameter	1,20 ± 0,07			mm.
Cable Weight	4-12F: 72,00	16-24F: 80,00	(± %3)	kg./km.
Sheath Colour	Black(standard)			

COLOUR CODING OF FIBERS AND LOOSE TUBES

Fiber #	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Red	Gray	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	Gray-Black	Yellow-Black	Brown-Black	Violet-Black	Black-Black	White-Black	Pink-Black	Aqua-Black

APPLICATIONS

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



COMPLIANCE

Generic Cabling And Cabling Components Sandards			
• ITU-T G.651.1	• ISO/IEC 11801 Ed.2.1		
• IEC 60793-2	• EN 50173		
• IEC 60794-1-2	• 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	• Temperature Cycling	IEC 60794-1-F1
• Repeated Bending	IEC 60794-1-2E6		

OPTICAL SPECIFICATIONS

Fibre Type	Multimode OM3 ITU-T G651.1	
Numerical Aperture	0,20±0,015	
Attenuation (@850nm./1.300nm.)	2,5 / 0,70	dB/km., Max.
OFL Bandwidth ('@850nm. / 1.300nm.)	1.500 / 500	Mhz.km., Min.
Supported Distances		
10 Gigabit Ethernet SX @850nm.	300	m.
Gigabit Ethernet SX @850nm.	1.000	
Gigabit Ethernet LX @1.300nm.	600	
40&100 Gigabit Ethernet @850nm.	100	

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

Short/Long Term Tensile Strength	1.200 / 800	N./100mm.
Short/Long Term Crush Strength	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 Non-circularity Error	1	%, Max.
Coating Diameter	245±10	µm.
Coating/Cladding Concentricity Error	12	µm., Max.
Core/Cladding Concentricity Error	1,5	µm., Max.

PART NUMBER CODING

Part Number	Product Description
F111-C0-1EM3-FFFY	Zemecs Multimode OM3 Single Loose Tube Single Sheath Steel Armour PE Fiber Optic Cable

FFF: Fibre 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	

