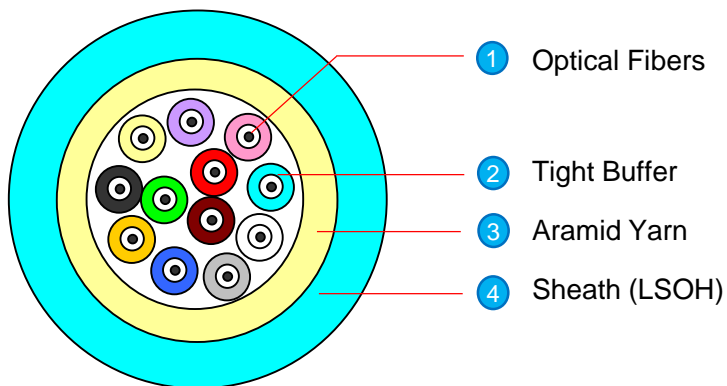




### OVERVIEW

Zemecs F154-Y0 series fiber optic cables are designed and manufactured to exceed performances specified by ITU-T G651.1, IEC 60793, IEC 60794, ISO/IEC 11801 and TIA 568.3-D for FTTX and indoor applications.

The fibers are filled into tight buffer tubes, covered by aramid yarn as strength member and completed with a LSOH sheath. The cables are delivered in 500, 1.000 and 2.000m. reels.



Drawing is not scaled.

### FEATURES

- Exceeds requirements of ITU-T G651.1, IEC 60793, IEC 60974, ISO/IEC 11801 and TIA 568-3.D standards
- LSOH sheath
- Increased tensile strength through the use of aramid yarn (may also be supplied with glass yarn)
- Low bending radius
- Constructed up to 12 fibers

### APPLICATIONS

- FTTx or GPON cabling
- Indoor cabling applications requiring protection against EMI

### MATERIAL AND PHYSICAL SPECIFICATIONS

Cable Outer Diameter	4F: 5,0 8F: 5,8 12F: 6,2	(± 0,2)	mm.
Sheath Material	LSOH (Low Smoke Zero Halogen)		
Sheath Thickness	1,1 ± 0,01		mm.
Tight Buffer Diameter	0,85 ± 0,05		mm.
Tight Buffer Material	PVC		
Cable Weight	4F: 26,0 8F: 34,0 12F: 40,0	(± 0,50)	kg./km.
Sheath Colour	Black(standard)		

### COLOUR CODING OF TIGHT BUFFERS

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

### ENVIRONMENTAL SPECIFICATIONS

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



**COMPLIANCE**

Standards For Generic Cabling And Cabling Components	
• ITU-T G.651.1	• 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)	
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	
• Fiber Geometry	IEC 60793-1-20
• Coating Geometry	IEC 60793-1-21
• Fiber Proof	IEC 60793-1-30
• Length Measurement	IEC 60793-1-22

**OPTICAL SPECIFICATIONS**

Fiber 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	

**MECHANICAL SPECIFICATIONS**

Tensile Strength (Installation/Operation)	800 / 400	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
F154-Y0-JZM3-FFFY	Zemecs Multimode OM3 Breakout LSOH Fiber Optic Cable

J: Sheath Colour	FFF: Fiber Count	Y: Length And Package Type
1 Black	1 1 6 6	S 500m. Reel
2 Orange	2 2 8 8	M 1.000m. Reel
3 Yellow	4 4 12 12	L 2.000m. Reel
4 Aqua		
5 White		

