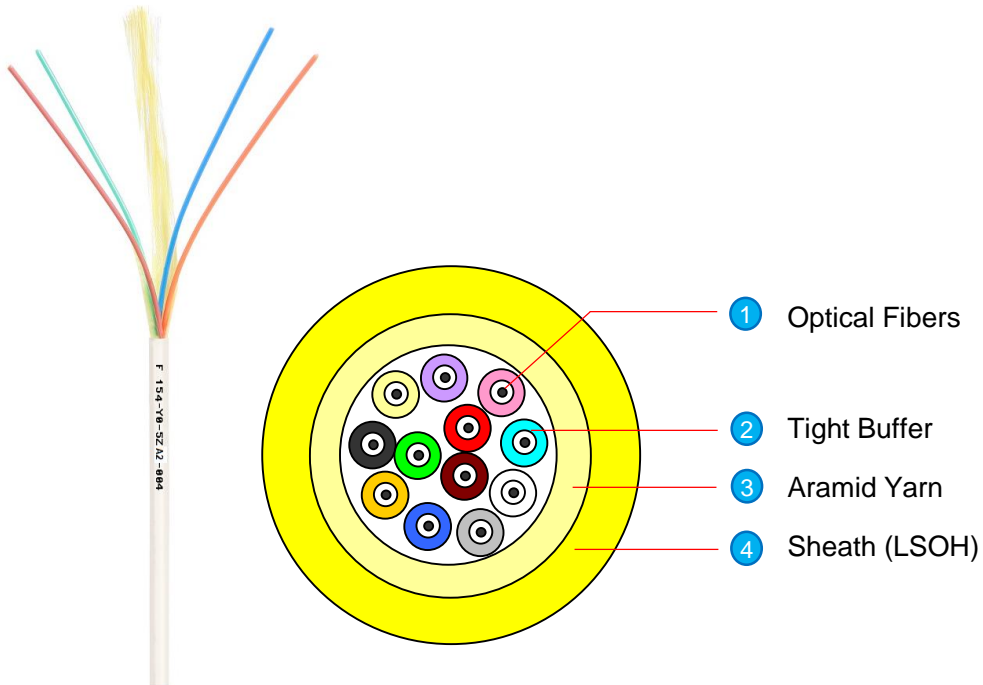




**OVERVIEW**

Zemecs F154-Y0 series fiber optic cables are designed and manufactured to exceed performances specified by ITU-T G657.A2, IEC 60793, IEC 60794, ISO/IEC 11801 and TIA 568.3-D for FTTX and indoor applications.

The bend insensitive G657.A2 type 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 G657.A2, 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: 4,6 8F: 5,8 12F: 6,5	(± 0,1)	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: 16,0 8F: 31,0 12F: 6,5	(± 0,2)	kg./km.
Sheath Colour	White(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 G657.A2	• 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	Singlemode ITU-T G657.A2	
Attenuation (@1.310 nm./1.550nm. / 1.625nm.)	0,40 / 0,30 / 0,26	dB/km., Max.
Chromatic Dispersion (@1.550 nm./1.625nm.)	17 / 22	ps/(nm.km.), Max.
Zero Dispersion Wavelength ( $\lambda_0$ )	$1.300 \leq \lambda_0 \leq 1.324$	Nm.
Zero Dispersion Slope (So)	0,091	ps/(nm <sup>2</sup> .km.) Max.
Cable Cutoff Wavelength ( $\lambda_{cc}$ )	1.260	nm., Max.

**MECHANICAL SPECIFICATIONS**

Tensile Strength (Installation/Operation)		800 / 500	N./100mm.
Crush Strength (Installation/Operation)		4.000 / 1.500	N./100mm.
Bending Radius			
Installation Condition	Wavelength	Relative Attenuation	
10 turns, 15mm. Radius	1.550/1.625 nm.	0,03 / 0,10	dB., Max.
1 turn, 10mm. Radius	1.550/1.625 nm.	0,10 / 0,20	dB., Max.
1 turn, 7,5mm. Radius	1.550/1.625 nm.	0,20 / 0,50	dB., Max.

**GEOMETRICAL SPECIFICATIONS**

Mode Field Diameter (@1.310nm./1.550nm.)	9,20 / 10,40	$\mu$ m.
Cladding Diameter	125,0 $\pm$ 1,0	$\mu$ m.
Core/Coating Concentricity Error	1	%, Max.
Coating Diameter	245 $\pm$ 7	$\mu$ m.
Coating/Cladding Concentricity Error	10	$\mu$ m., Max.
Core/Cladding Concentricity Error	0,5	$\mu$ m., Max.

**PART NUMBER CODING**

Part Number	Product Description
F154-Y0-JZA2-FFFY	Zemecs Singlemode G657.A2 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		

