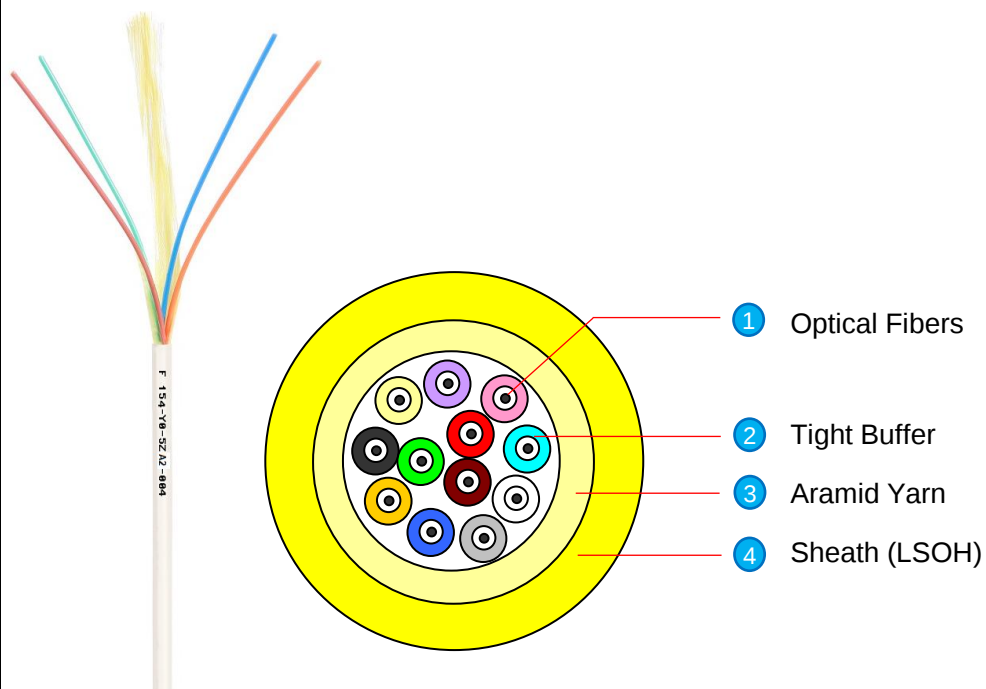




OVERVIEW

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.)	0,35 / 0,21 / 0,22	dB/km., Max.
Chromatic Dispersion (@1.550 nm./1.625nm.)	17 / 22	ps/(nm.km.), Max.
Zero Dispersion Wavelength (λ_0)	$1.300 \leq \lambda_0 \leq 1.324$	Nm.
Zero Dispersion Slope (So)	0,091	ps/(nm ² .km.) Max.
Cable Cutoff Wavelength (λ_{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	μm.
Cladding Diameter	125,0±1,0	μm.
Core/Coating Concentricity Error	1	%, Max.
Coating Diameter	245±7	μm.
Coating/Cladding Concentricity Error	10	μm., Max.
Core/Cladding Concentricity Error	0,5	μm., Max.

PART NUMBER CODING

Part Number	Product Description
F154-Y0-JZA2-FFFY	Zemecs Singlemode G657.A2 Breakout LSOH Fiber Optic Cable

J: Sheath Colour	FF: 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		

