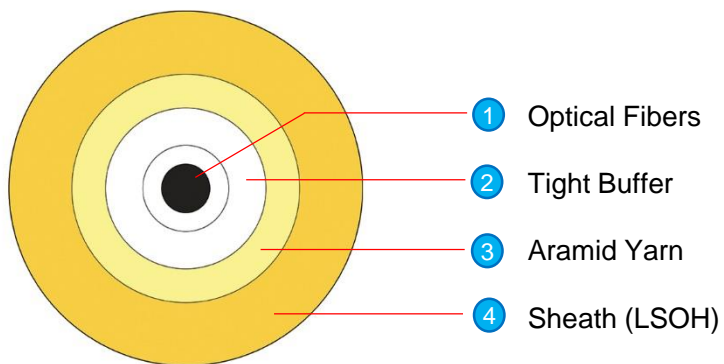




OVERVIEW

Zemecs F153-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 indoor applications.

The fiber(s) 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.



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
- Simplex or duplex construction types

APPLICATIONS

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

MATERIAL AND PHYSICAL SPECIFICATIONS

Cable Outer Diameter	Simplex: 2,4 Duplex: 2,4x4,9	mm.
Sheath Material	LSOH (Low Smoke Zero Halogen)	
Tight Buffer Diameter	900 ± 50	µm.
Tight Buffer Material	PVC	
Cable Weight	Simplex: 4,5 Duplex: 9,0	kg./km.
Sheath Colour	White(standard)	

ENVIRONMENTAL SPECIFICATIONS

Transportation and Storage Temperature	-40 / +80	°C
Installation Temperature	-30 / +50	°C
Operation Temperature	-20 / +80	°C
Relative Humidity	10 - 90, non-condensing	%


COMPLIANCE
Standards For Generic Cabling And Cabling Components

- ITU-T G657.A2 • ISO/IEC 11801 Ed.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.)	0,34 / 0,20 / 0,24	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 (S_0)	0,091	ps/(nm ² .km.) Max.
Cable Cutoff Wavelength (λ_{cc})	1.260	nm., Max.

MECHANICAL SPECIFICATIONS

Tensile Strength (Installation/Operation)	Simplex: Duplex:	100 / 60 200 / 100	N./100mm.
Crush Strength (Installation/Operation)		500 / 100	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	μ m.
Cladding Diameter	125,0 \pm 1,0	μ m.
Core/Coating Concentricity Error	1	%, Max.
Coating Diameter	245 \pm 7	μ m.
Coating/Cladding Concentricity Error	10	μ m., Max.
Core/Cladding Concentricity Error	0,5	μ m., Max.

PART NUMBER CODING

Part Number	Product Description
F153-Y0-JZA2-S01Y	Zemecs Singlemode G657.A2 Simplex 1 Core LSOH FTTX Cable
F153-Y0-JZA2-S02Y	Zemecs Singlemode G657.A2 Simplex 2 Core LSOH FTTX Cable
F153-Y0-JZA2-D02Y	Zemecs Singlemode G657.A2 Duplex 2 Core LSOH FTTX Cable

J: Sheath Colour

1	Black
2	Orange
3	Yellow
4	Aqua
5	White

Y: Length And Package Type

S	500m. Reel
M	1.000m. Reel
L	2.000m. Reel
C	500m. Reel In Box

