



OVERVIEW

Zemecs F154-Y0 series fiber optic cables are designed and manufactured to exceed performances specified by ITU-T G652.D, 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.

FEATURES

- Exceeds requirements of ITU-T G652.D, 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

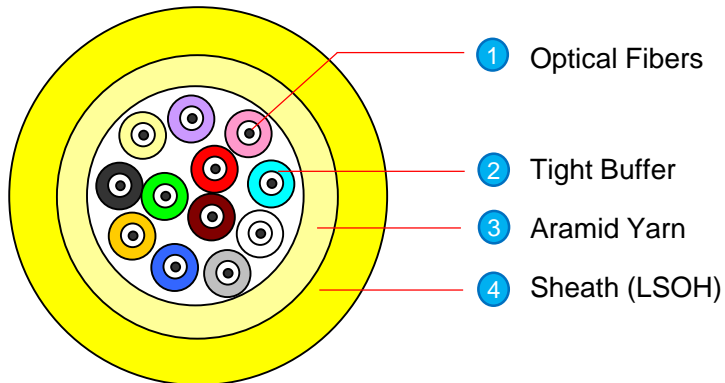
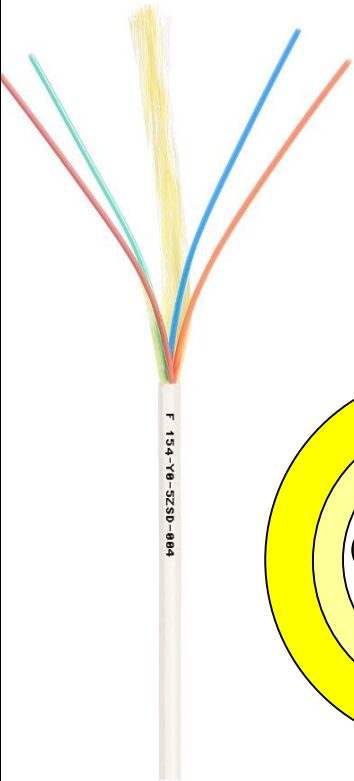
Cable Outer Diameter	4F: 5,0 8F: 5,8 12F: 6,2	(± 0,2)	mm.
Sheath Material	LSOH (Low Smoke Zero Halogen)		
Sheath Thickness	1,1 ± 0,01		mm.
Tight Buffer Diameter	0,85 ± 0,05		mm.
Tight Buffer Material	PVC		
Cable Weight	4F: 26,0 8F: 34,0 12F: 40,0	(± 0,5)	kg./km.
Sheath Colour	White(standard)		

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	%



Drawing is not scaled.



COMPLIANCE

Standards For Generic Cabling And Cabling Components	
• ITU-T G652.D	• 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
• IEC 60754-2:2011	• EN 50399:2011+A1:2016
• 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 G652.D	
Attenuation (@1.310 nm./1.550nm.)	0,34 / 0,20	dB/km., Max.
Chromatic Dispersion (@1.310 nm./1.550nm.)	3,5 / 18	ps/nm.km., Max.
Zero Dispersion Wavelength (λ_0)	$1.300 \leq \lambda_0 \leq 1.324$	Nm.
Zero Dispersion Slope (So)	0,092	ps/(nm ² .km.) Max.
Cable Cutoff Wavelength (λ_{cc})	1.260	nm., Max.

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

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	12	µm., Max.
Core/Cladding Concentricity Error	0,6	µm., Max.

PART NUMBER CODING

Part Number	Product Description
F153-Y0-JZSD-FFFY	Zemecs Singlemode G652.D 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		

