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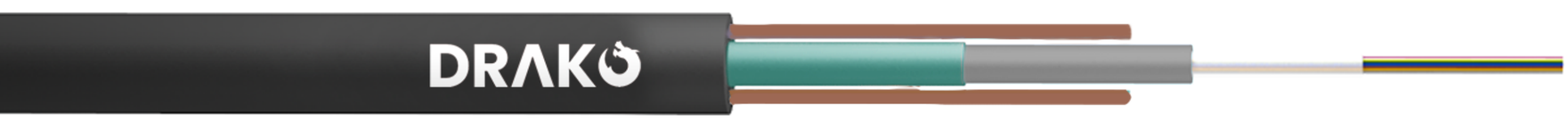
Optical Fiber Cable Technical Specification

Overview

ADSS Cable Span 50m GYGXY

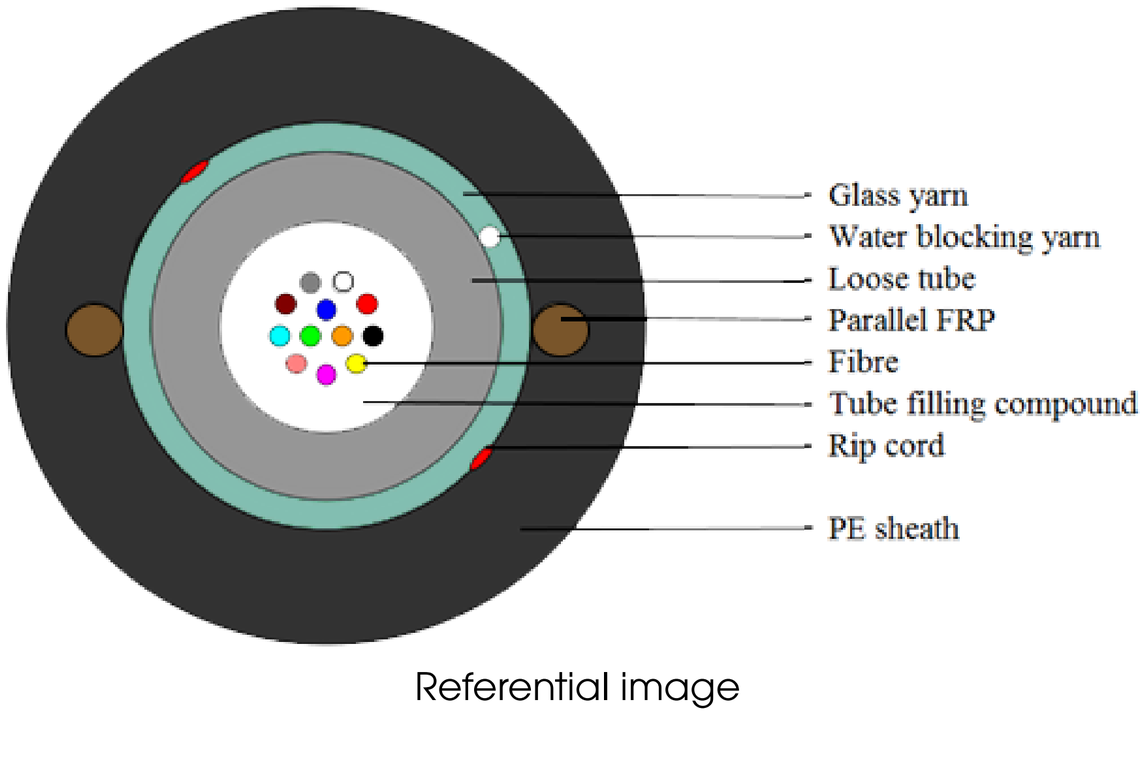
All dielectric, self-supporting cable, suitable for outside plant use in aerial and duct installations.



Dimension and descriptions

Item	Contents	Value
		2~12
Loose tube diameter(mm)	Material	PBT
	Diameter(mm)	2.5±0.03
Water blocking	Material	Water blocking yarn
Parallel strength member	Material	FRP
		0.5±0.02 *2
Additional strength member	Material	Glass yarns
Ripcord	Number	2
Outer sheath	Material	HDPE
	Color	BLACK
	Thickness(mm)	1.8mm ±0.2
Cable diameter(mm)		7.0±0.4
Cable weight(kg/km) Approx.		47
Max allowable tension (N)		750N
Crush(N/100mm)	Long term	500N
	Short term	750N

Cross section of cable



Referential image

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Fiber and Loose Tube Identification

The color code of the optical fibers and the loose tubes responds to the EIA-TIA 598-A specification, as detailed:

Blue	Orange	Green	Brown	Grey	Withe	Red	Black	Yellow	Purple	Pink	Aqua

Optical fiber

Optical Fibres supplied in this specification meet the requirements of ITU-T G.652D

Parameters	Specification
MFD （1310nm）	8.7~9.6μm
MFD （1550nm）	10.4+/-0.5um
Cladding diameter	125mm±1.0mm
Fiber diameter	245+/-7um, with UV coating, and colored to : 250+/-15um
Core/cladding concentricity error	≤ 0.6um
Coating/cladding concentricity error	≤ 12.0um
Cladding non circularity	≤ 1.0%
Cut off wavelength	λcc ≤1260nm
Attenuation coefficient	1310nm: 0.36dB/km max after cabling
	1550nm: 0.22dB/km max after cabling
Bending-loss performance of optical fiber @1310nm&1550nm	≤0.05dB (100 turns around amandrel of 50mm diameter)
Polarization mode dispersion link value	≤ 0.1 ps/√km
Zero-dispersion wavelength	1312+/-12nm
Zero-dispersion slope	≤0.091ps/nm^2.km

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Mechanical, Physical and Environmental Test Characteristics @1550nm

Item	Test Method	Requirements
Tension	IEC 60794-1-2-E1 Load: According to 3.2.3 Sample length: Not less than 50m. Duration time: 1min.	Additional attenuation: ≤0.1dB after test No damage to outer jacket and inner elements
Crush	IEC 60794-1-2-E3 Load: According to 3.2.3 Duration of load: 1min	Additional attenuation: ≤0.1dB after test No damage to outer jacket and inner elements
Impact	IEC 60794-1-2-E4 Radius:300mm Impact energy:5J Impact number: 1 Impact points: 3	Additional attenuation: ≤0.1dB No damage to outer jacket and inner elements
Bend	IEC 60794-1-2-E11A Mandrel radius: 10*D Turns:10 Cycles:5	Additional attenuation: ≤0.1dB No damage to outer jacket and inner elements
Repeated bending	IEC 60794-1-2-E6 Bending radius: 20*D Cycles: 25 Load:20N	Additional attenuation: ≤0.1dB No damage to outer jacket and inner elements
Torsion	IEC 60794-1-2-E7 Cycles:10 Length under test: 1m Turns: ±90° Load:150N	Additional attenuation: ≤0.1dB No damage to outer jacket and inner elements
Temperature cycling	IEC 60794-1-2-F1 Sample length: at least 1000m Temperature range: +20℃→-40℃→+70℃→-40℃→+70℃ →+20 Cycles:2 Temperature cycling test dwell time: 12 hours	The change in attenuation coefficient shall be less than 0.1 dB/km at 1310 and 1550nm.
Water Penetration	IEC 60794-1-2-F5B Time : 24 hours Sample length : 3m Water height : 1m	No water leakage.
Other parameters	According to IEC 60794 -1	

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Application specifications

Item	Value
Max. pole distance	50m
Operation temperature	-40 ºC～+70 ºC
Storage temperature	-40 ºC～+70 ºC
Static bending radius	10 times the cable diameter
Dynamic bending radius	20 times the cable diameter

Packaging and drum

Cable Sheath Marking

Color: white

Contents: DRAKO, the year of manufacture, the type of cable, cable number, length marking

Interval: 1 m

Outer sheath marking legend can be changed according to user's requests.

Reel lenght

Standard reel length: 2/3/4 km/reel, other length is also available.

Cable drum

The cables are packed in Plywood or fumigated wooden drums

How to order

OFC		
Model Name	Description	P/N
Aerial Optical Cable	2FO G.652D ADSS Span 50 GYGXY	AOC007
	4FO G.652D ADSS Span 50 GYGXY	AOC008
	6FO G.652D ADSS Span 50 GYGXY	AOC009
	8FO G.652D ADSS Span 50 GYGXY	AOC010
	12FO G.652D ADSS Span 50 GYGXY	AOC011