

**Optico Group Co., Limited**

Address: No9, Bldg 5, Changfeng Industrial Park, Dongkeng Community, Guangming District, Shenzhen, China. Tel: 0755-33532578 Fax: 0755-36697385

Anti – Rodent Cable Specification**1. General**

Cable Type	Application
48 / 96C	Direct burial installation

2. Dimensions and Descriptions

The standard optical cable structure is shown in the following table, other structure and fibre count are also available according to customer requirements.

Item	Contents	Value	
		48	96
Structure	Type	1+6	1+8
Loose tube	Fiber counts/tube	12	
	Outer diameter	2.0	
Central strength member	Material	Steel wire	
	Diameter (mm)	2.0	2.0
	PE layer diameter (mm)	/	3.5
Water Blocking	Material	Cable Filling compound	
Armor	Material	Steel tape/ Corrugated steel tape	
Inner Sheath	Material	HDPE	
	Color	Black	
	Thickness	Nominal: 1.5	
Armor	Material	Galvanized Steel wire	
	Diameter (mm)	Nominal: 1.6	
Outer Sheath	Material	HDPE	
	Color	Black	
	Thickness (mm)	Nominal: 2.0	
Cable diameter (mm) Approx.		17.6	19.0
Cable Weight (kg/km) Approx.		575	655



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3. Optical Fibre

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

Parameter	Specification
MFD (1310nm)	8.7~9.5 μ m
Cladding diameter	125 \pm 1.0 μ m
Fiber diameter	235~255 μ m, with UV coating, and colored to : 250 \pm 15 μ m
Core/cladding concentricity error	\leq 0.6 μ m
Coating/cladding concentricity error	\leq 12.0 μ m
Cladding non circularity	\leq 1.0%
Cut off wavelength	$\lambda_{cc} \leq$ 1260nm
Attenuation coefficient	1310nm: 0.35dB/km max after cabling 1550nm: 0.21dB/km max after cabling
Bending-loss performance of optical fiber @ 1310nm&1550nm	\leq 0.05dB (100 turns around a mandrel of 50mm diameter)
Polarization mode dispersion maximum individual fibre	\leq 0.2ps/ \sqrt km
Polarization mode dispersion link value	\leq 0.2ps/ \sqrt km
Zero-dispersion wavelength	1300~1324nm
Zero-dispersion slope	\leq 0.092ps/nm ² · km

4. Main Mechanical and Environmental Performance

Item	Tension (N)	Crush(N/100mm)
48/96	10000	3000