

# DUCT FIBER OPTIC CABLES

## DUCT Non Metallic FIBER OPTIC CABLE

### Application:

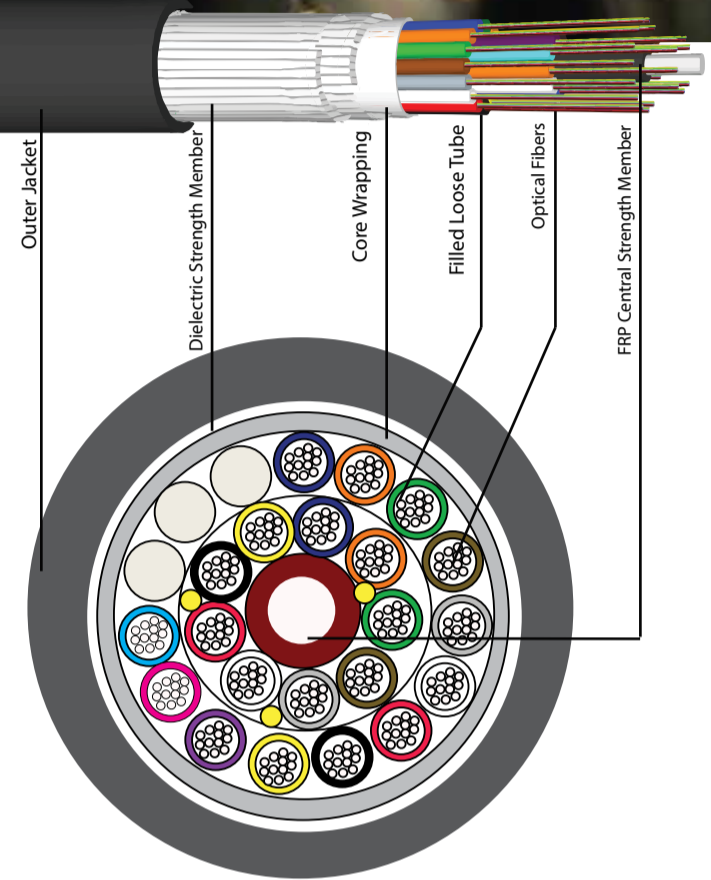
GEC's Loose Tube cables are designed for outdoor use for campus; city and Intercity backbones in duct installations. The loose tube cable construction, by isolating the Fibers from installations and environmental rigors, provides stable and highly reliable transmission Parameters. The buffer tube and the fibers in each tube are color coded for quick and easy identifications. The SZ stranded construction allow mid span access.

### Mechanical & Environmental Test References

Tensile Loading And Bending Test	Test method: IEC 60794-1-2, Method E1
Crush Test	Test method: IEC 60794-1-2, Method E3
Impact Test	Test method: IEC 60794-1-2, Method E4
Repeated bending Test	Test method: IEC 60794-1-2, Method E6
Torsion Test	Test method: IEC 60794-1-2, Method E7
Kink	Test method: IEC 60794-1-2, Method E10
Bend	Test method: IEC 60794-1-2, Method E11A
Temperature Cycling	Test method: IEC 60794-1-F1
Water Penetration Test	Test method: IEC 60794-1-2, Method F5B

Cabled Multimode fibres		Cabled Singlemode fibres	
Fiber Type	Reference Standards	Fiber Type	Reference Standards
OM1 (62.5/125 μm)	ITU-T G.651.1	OS1/OS2	ITU-T G.652D
OM2 (50/125 μm)	ITU-T G.651.1	OS1/OS2	ITU-T G.654
OM3 (50/125 μm)	ITU-T G.651.1	OS1/OS2	ITU-T G.655
OM4 (50/125 μm)	ITU-T G.651.1	OS1/OS2	ITU-T G.656
OM5 (50/125 μm)	ITU-T G.651.1	OS1/OS2	ITU-T G.657 (A1,A2,B1,B2)

GEC optical cables could be supplied with the above standard fibers.



### Features

- 1- Excellent Optical Performance
- 2- Water Blocking Technology (Gel core/Dry core)
- 3- High Tensile & Mechanical Performance  
High Tensile Dielectric Strength Member

### Typical Parameters

### Cable Description: Non Metallic Duct Cable

Fiber Count	Nominal Diameter (mm)	Nominal Weight (Kg/Km)	Nominal Pulling Force (Newton)	Nominal Crush Resistance (N/10cm)
12F	10.5	83	2,000	1,500
24F	10.5	84	2,000	1,500
36F	10.5	85	2,000	1,500
48F	10.5	86	2,000	1,500
60F	10.5	88	2,000	1,500
72F	10.5	95	2,000	1,500
96F	12	120	2,000	1,500
144F	15	170	2,500	2,000
288F	18	255	2,500	2,000
432F	18.5	265	2,500	2,000

\* Note: The above parameters are of the standard GEC designs, However GEC can offer customized cable designs as per the requirement.