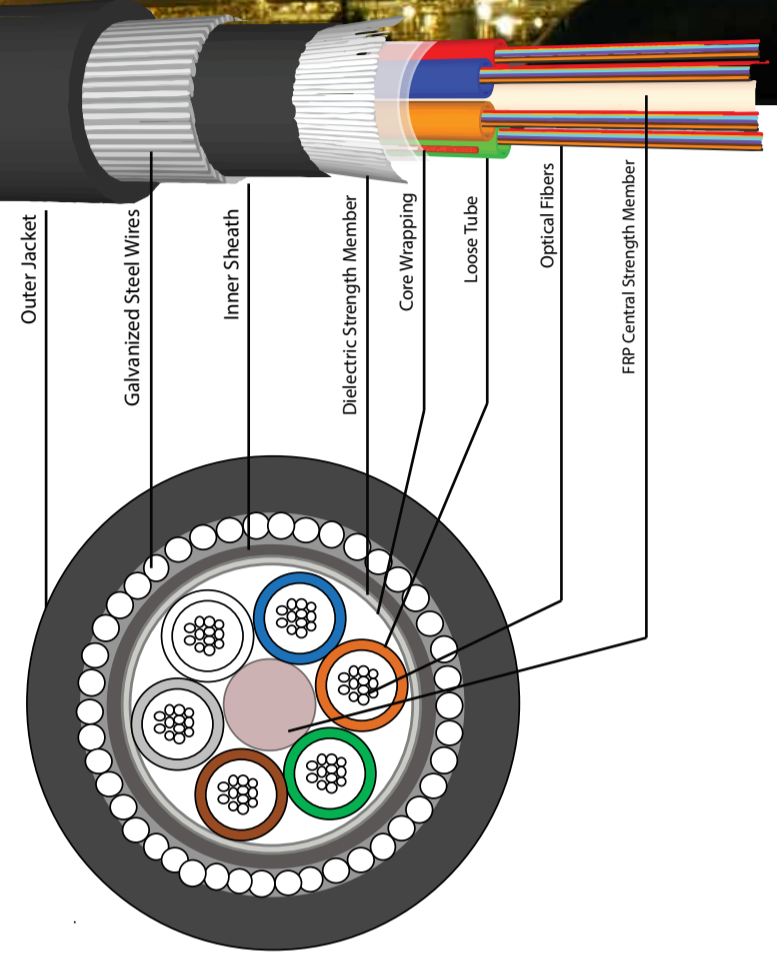


# STEEL WIRE ARMORED FIBER OPTIC CABLES

## STEEL WIRE ARMORED FIBER OPTIC CABLE

### Application:

GEC's multi tube jacketed steel wire armoured optical fiber cables are best suited for harsh environment installations. The cable consists of stranded loose tube around FRP (Fiber Reinforced Plastic) Centre strength member. The buffer tubes containing gel, and the cable core surrounded with water blocking element preventing the water ingress in the cable. The core is sheathed with Thermoplastic material surrounded by steel wire armour providing the excellent rodent protection and giving the best mechanical and tensile performance. The Thermoplastic Jacket placed over the armour makes cable robust and installation friendly.



### 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

### Features

- 1- Excellent Optical Performance**
- 2- Water Blocking Technology** ( Gel core/Dry core)
- 3- Excellent Mechanical and Tensile Performance.**
- 4- Best for Harsh environments** Like Pipeline Oil & Gas Field , Heavy industrial sites)
- 5- UV and Rodent protection**  
The steel wires protects against rodents

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.

### Typical Parameters

### Cable Description: Steel Wire Armored Cable

Fiber Count	Nominal Diameter (mm)	Nominal Weight (Kg/Km)	Nominal Pulling Force (Newton)	Nominal Crush Resistance (N/10cm)
12F	14	328	3,000	2,500
24F	14	330	3,000	2,500
36F	14	332	3,000	2,500
48F	14	334	3,000	2,500
60F	14	336	3,000	2,500
72F	14	338	3,000	2,500
96F	17	560	3,000	2,500
144F	20	560	3,000	2,500

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