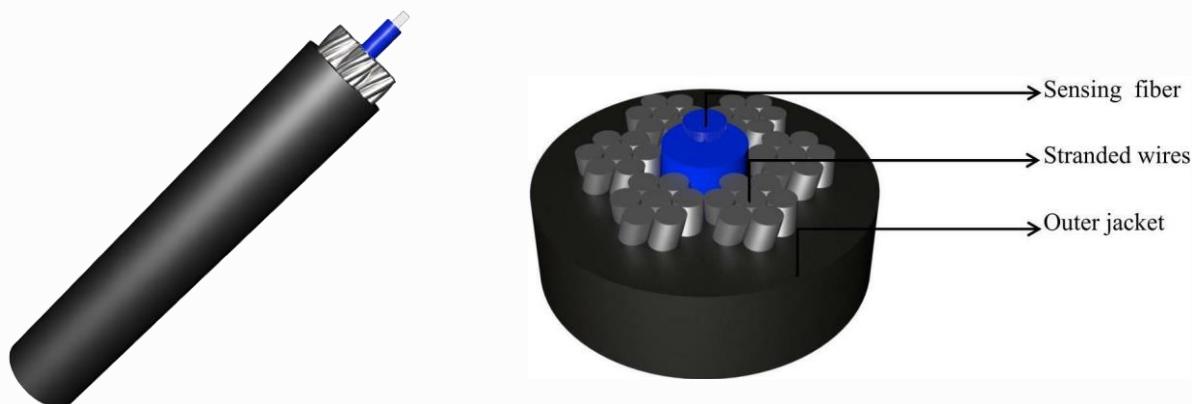


DSS Sensing Cable

MODEL : IK-FOC-SCJGY-S-05B



Description

SCJGY-S-05 DSS Sensing Cable are protected by layers of multiple steel strands, and can be used with distributed Brillouin fiber optic sensing demodulation devices to measure the strain distribution along the fiber optic cable. The addition of steel strands greatly enhances the mechanical strength of optical cables and can withstand various harsh working conditions, including impacts during concrete pouring. It is widely applicable for monitoring the strain distribution of civil engineering structures.

Applications

- Structural health monitoring of bridges, dams, tunnels, buildings, and other structures
- Internal stress analysis of reinforced concrete
- Pile foundation strain monitoring
- Highway subgrade settlement monitoring
- Monitoring of oil pipeline operation status
- Monitoring of strain distribution in civil engineering structures

DSS Sensing Cable

MODEL : IK-FOC-SCJGY-S-05B



Characteristics

- Based on the metal based cable structure, multiple high-strength steel strands greatly improve the tensile and compressive strength of sensing optical cables
- Rich in elasticity, soft, easy to bend, and not easy to break
- It can be fixed inside the concrete by direct burial to monitor internal stress changes

Technical Parameters

Cable Type	Cable Diameter	Cable Weight	Tensile Strength Long/Short term	Crush Resistance Long/Short term	Bending Radius Dynamic/Static	Storage Temperature
	(mm)	(kg/km)	(N)	(N)	(mm)	(°c)
SCJGY-S-05B	5.0±0.2	38	750/1500	1000/3000	10D/20D	-40 ~ +85

Note:

Standard length: 2000m; other lengths are also available.

Fiber type: Sensing Fiber

Ordering information

MODEL: IK-FOC-SCJGY-S-05B

- FOC: Fiber Optic Cable
- SCJGY: Cable Type