

# Outdoor/Indoor Optical Cable (5mm)

Particularly designed for the quick and iterative distributing & retrieving under the circumstances of military field and harsh environment, nonmetal cable is light, portable, flexible, bendable, oil-resistant, rubbing-resistant, flame retardant, with high tensile, high crush resistance and wide operating temperature. It can be used under the following situations: quick deployment and iterative distributing-retrieving of military field communication system; cable deployment of radar, aviation and naval vessel; complicated circumstances of oil field, mining, harbors, TV re-broadcasting, communication emergency repairing.

## Product Features:

- With  $\Phi 0.9\text{mm}$  tight buffer fiber inside, it adopts compact all dielectric distribution configuration, which provides the optical fiber with extremely high strength and makes the cable deploying or iterative distributing-retrieving faster.
- High intensity optical fiber coating with compound structure guarantees cable's stability and durability under complex situations by offering best temperature and minimal attenuation.
- Composed of high-intensified and flexible FRP, central strengthen member ensures the intensity and bending features of optical cable.
- A large scope aramid yarn ensures optical fiber with extremely high mechanical intensity
- SZ stranded technology strengthens cable, and marking it with high mechanical and transmission performance.
- Flame retardant PU, polyester elastomer guarantees structure stability and features of crush-resistant, rubbing-resistant, oil-resistant and flame retardant.
- RoHS compliant.



Distribution tactical fiber optic cable



## Specification

| Item No. | Item                        |             | Parameter                       |               |
|----------|-----------------------------|-------------|---------------------------------|---------------|
| 1        | Number of Fiber             |             | 2~4                             | 6             |
| 2        | Outer Diameter (mm)         |             | 5.0±0.2                         | 5.5±0.2       |
| 3        | Weight (kg/km)              |             | <25                             | <30           |
| 4        | Tight Buffer (um)           |             | 900                             |               |
| 5        | Typical Attenuation (dB/km) | Single Mode | 1310nm                          | <0.5          |
|          |                             |             | 1550nm                          | <0.4          |
|          |                             | Multi Mode  | 850nm                           | <3.2          |
|          |                             |             | 1300nm                          | <1.0          |
| 6        | Tension Strength (N)        |             | 1300                            | 1500          |
| 7        | Staving (N/10cm)            |             | 1000                            | 1100          |
| 8        | Impact (N*m)                |             | 4.5                             |               |
| 9        | Repeatedly Bending (times)  |             | 1000 (R=50m)                    | 1000 (R=55mm) |
| 10       | Flame Retardant             |             | Comply with IEC 60332           |               |
| 11       | Operating Temperature (°C)  |             | -45 ~ +70                       |               |
| 12       | Loading Length              |             | 1000M others depend on client's |               |

Notes: other optical performances、mechanical performances and environmental performances are all meet the national military standard of GJB 1428A.