DIREKTRONIK
Dataprodukter utöver det vanliga

# Central Loose Tube Armored outdoor cable

**GYXTW**

## Features

- Accurate fiber excess length ensures good mechanical and temperature performance.
- High stregth loose tube that is hydrolysis resistant and special tube filling compound ensure a critical protection of fiber.
- Specially designed compact structure is good at preventing loose tubes from shrinking.
- The loose tubes and all interstinces of cable core filled with moisture-proof and water blocking compound ensure no longitudinal water ingress.
- Two parallel steel wires ensure tensile strength.
- Small diameter,light weight and friendly installation.
- Polyethyene outer jacket can resist deterioration from ultra-violet(UV)rays.

## Application

Long distance and Local Artwork(LAN)communication.

## Laying Method

Self-support Aerial Installation


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## Parameter

| Fiber Count | Outerside Diameter | Nominal Weight | Min. Bend Radius | | Max. Tensile Strength | | Max. Crush Resistance | |
|---|---|---|---|---|---|---|---|---|
| | | | Loaded | Installed | Short Term | Long Term | Short Term | Long Term |
| | mm | kg/km | mm | mm | N | N | N/100mm $^2$ | |
| 2 | 8.0±0.3 | 62 | 20D | 10D | 1500 | 500 | 3000 | 1000 |
| 4 | 8.0±0.3 | 62 | 20D | 10D | 1500 | 500 | 3000 | 1000 |
| 6 | 8.0±0.3 | 62 | 20D | 10D | 1500 | 500 | 3000 | 1000 |
| 8 | 8.0±0.3 | 62 | 20D | 10D | 1500 | 500 | 3000 | 1000 |
| 12 | 8.0±0.3 | 62 | 20D | 10D | 1500 | 500 | 3000 | 1000 |

## Environmental characteristics

| ITEM | CHARACTERISTICS |
|---|---|
| Operation Temperature | -40℃~+70℃ |
| Storage Temperature | -40℃~+70℃ |

## Single-mode Fiber

| Item | Unit | | Specification |
|---|---|---|---|
| Attenuation | dB/km | @ 1310 nm<br>@ 1550 nm | ≤0.4<br>≤0.3 |
| Dispersion coefficient | ps/(nm·km) | 1285~1330nm<br>1550nm | ≤3.5<br>≤18.0 |
| Zero dispersion wavelength | nm | | 1300~1324 |
| Zero dispersion slope | ps/(nm.km) | | ≤ 0.095 |
| Fiber cutoff wavelength | nm | | ≤ 1260 |
| Mode field diameter | um | | 9.2±0.5 |
| Mode field concentricity | um | | ≤0.8 |
| Cladding diameter | um | | 125±1.0 |
| Cladding non-circularity | % | | ≤1.0 |
| Coating / cladding concentricity error | um | | ≤12.5 |
| Coating diameter | um | | 245 ±10 |
| Bending, dependence induced attenuation | dB | | (1550nm,1turns,32mm diameter) ≤0.5<br>(1550nm,100turns,60mm diameter) ≤0.5 |
| Proof test (off line) | kpsi | | ≥100 |

## Multi-mode Fiber method

| Item | Unit | | Specification | |
|---|---|---|---|---|
| Attenuation | dB/km | @ 850 nm<br>@ 1300 nm | ⩽ 3.5<br>⩽ 1.5 | |
| Bandwidth | Mhz·km | @ 850 nm<br>@ 1300 nm | ⩾ 200(50/125μm)<br>⩾ 200(50/125μm) | ⩾ 160(62.5/125μm)<br>⩾ 200(62.5/125μm) |
| Cladding diameter | um | | 125.0±1.0 | |
| Cladding non-circularity | % | | ⩽ 1.0 | |
| Coating / cladding concentricity error | um | | ⩽ 12.5 | |
| Coating diameter | um | | 245±10 | |
| Bending, dependence induced attenuation | dB | | (850nm, 1300nm 100turns,75mm diameter)⩽ 0.50 at 850nm\1300nm | |
| Proof test (off line) | kpsi | | ≥100 | |

Notice: Using OM3 OR OM4,cable can reach 10G/40G high-speed transmission rate.

## Standard Fiber Colour Identification

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BL-Blue | OR-Orange | GR-Green | BR-Brown | GY-Grey | WH-White | RE-Red | BK-Black | YE-Yellow | PU-Purple | PI-Pink | AQ-Aqua |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BL-Blue | OR-Orange | GR-Green | BR-Brown | GY-Grey | WH-White | RE-Red | BK-Black | YE-Yellow | PU-Purple | PI-Pink | AQ-Aqua |


1. The color arrangement of fiber type and tube is specified in the color identification table.
2. Chromatography may be required by customer production.