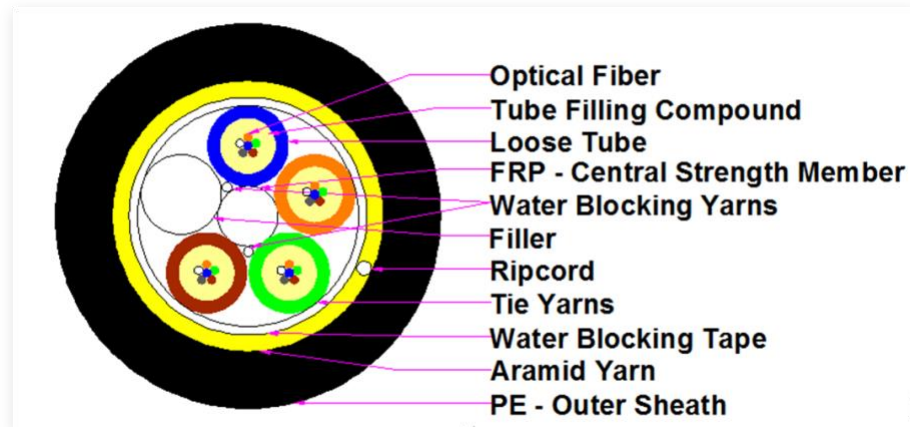


## ADSS Outdoor Aerial Fiber Cable Specification

### CR-ADSS24/48/72C

#### 1. Structure Diagram



#### 2. The properties of single mode fiber (ITU-T G .652D)

| Items                         | Description                                    |                         |
|-------------------------------|------------------------------------------------|-------------------------|
|                               | Before cable                                   | After cable             |
| atten.1310                    | $\leq 0.35\text{dB/km}$                        | $\leq 0.36\text{dB/km}$ |
| atten.1383                    | $\leq 0.35\text{dB/km}$                        | $\leq 0.36\text{dB/km}$ |
| atten.1550                    | $\leq 0.21\text{dB/km}$                        | $\leq 0.22\text{dB/km}$ |
| atten.1625                    | $\leq 0.23\text{dB/km}$                        | $\leq 0.24\text{dB/km}$ |
| Cable cut-off wavelength      | $\leq 1260\text{ nm}$                          |                         |
| Zero-dispersion wavelength    | 1300 ~ 1324 nm                                 |                         |
| Zero-dispersion slope         | $\leq 0.091\text{ ps}/(\text{nm}^2.\text{km})$ |                         |
| Mode field diameter           | @ 1310 nm 8.8~9.6 $\mu\text{m}$                |                         |
| Core/Clad concentricity error | $\leq 0.6\mu\text{m}$                          |                         |
| Cladding diameter             | 125 $\pm$ 1.0 $\mu\text{m}$                    |                         |
| Cladding non-circularity      | $\leq 1.0\%$                                   |                         |
| Primary Coating diameter      | 245 $\pm$ 7 $\mu\text{m}$                      |                         |

### 3. Cable Dimensions and Constructions

| Items                  | Descriptions            |                                                                             |
|------------------------|-------------------------|-----------------------------------------------------------------------------|
| <b>Fiber</b>           | Fiber type              | G652D                                                                       |
|                        | Fiber count             | 2-96 cores                                                                  |
|                        | Color                   | Blue/Orange/Green/ Brown/ Grey/<br>White/Red/Black/ Yellow/Purple/Pink/Aqua |
| <b>Loose tube</b>      | Material                | PBT                                                                         |
|                        | Diameter                | 2.2mm                                                                       |
|                        | Water-blocking material | Gel-filled                                                                  |
| <b>Strength member</b> | Material                | FRP (with cushion when needed)                                              |
|                        | Diameter                | 1.8-2.6mm                                                                   |
| <b>Outer jacket</b>    | Material                | PE                                                                          |
|                        | Color                   | Black                                                                       |
|                        | Thickness               | 1.7mm ± 0.2mm                                                               |
|                        | Cable OD                | 10.6mm ± 0.5mm for 2-72 cores<br>11.8mm ± 0.5mm for 96 cores                |

### 4. Mechanical and Environmental Characteristics

| Items                                          | Descriptions      |               |
|------------------------------------------------|-------------------|---------------|
| <b>Tensile Strength</b><br>(IEC 60794-1-2 E1)  | short-term        | 2500N         |
|                                                | long-term         | 1500N         |
| <b>Crush</b><br>(IEC 60794-1-2 E3)             | short-term        | 2000N/100mm   |
|                                                | long-term         | 1000N/100mm   |
| <b>Temperature Range</b><br>(IEC 60794-1-2 F1) | Storage/Operation | -40°C - +70°C |
|                                                | Installation      | -20°C - +60°C |

### 5. Packing: Wooden Drums Protection

The cables are packed in plywood drums.

### 6. Delivery Length

Standard delivery length is 2km/drum or per customer's requirements.