

TECHNICAL DATA SHEET

FOR

OPTICAL FIBER CABLE

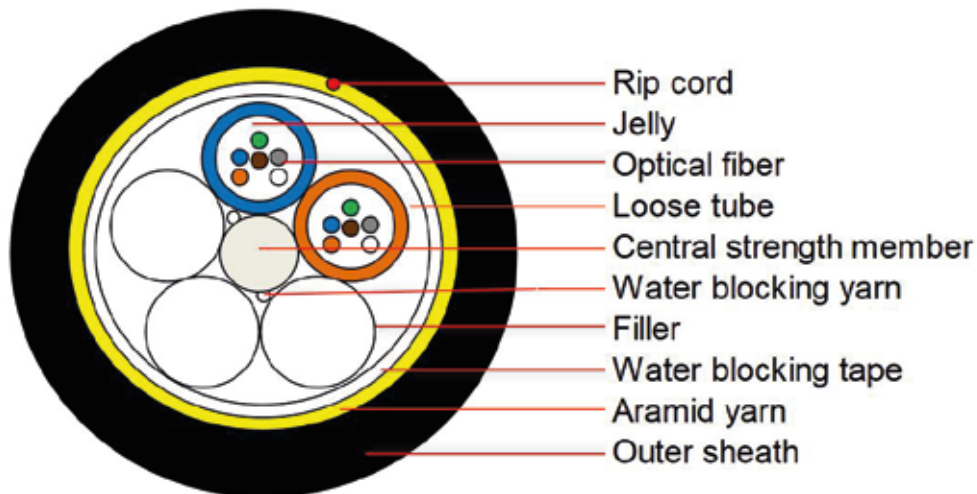
ADSS-12/24/48

1 Reference

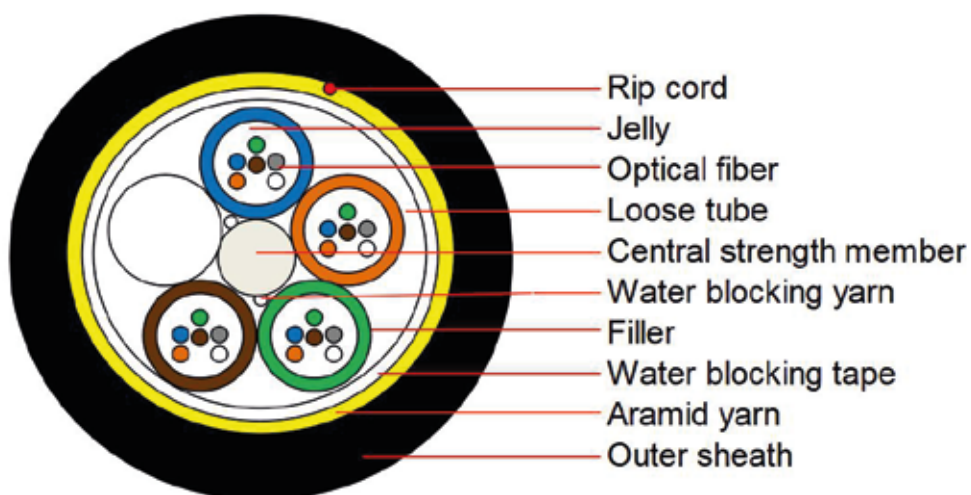
The cable offered are designed, manufactured and tested according to the standards as follows:

| | |
|---------------|---|
| IEC 60794-1-1 | Optical fibre cables-part 1-1: Generic specification-General |
| IEC 60794-1-2 | Optical fibre cables-part 1-2: Generic specification-Basic optical cable test procedure |
| IEC 60794-3 | Optical fibre cables-part 3: Sectional specification-Outdoor cables |

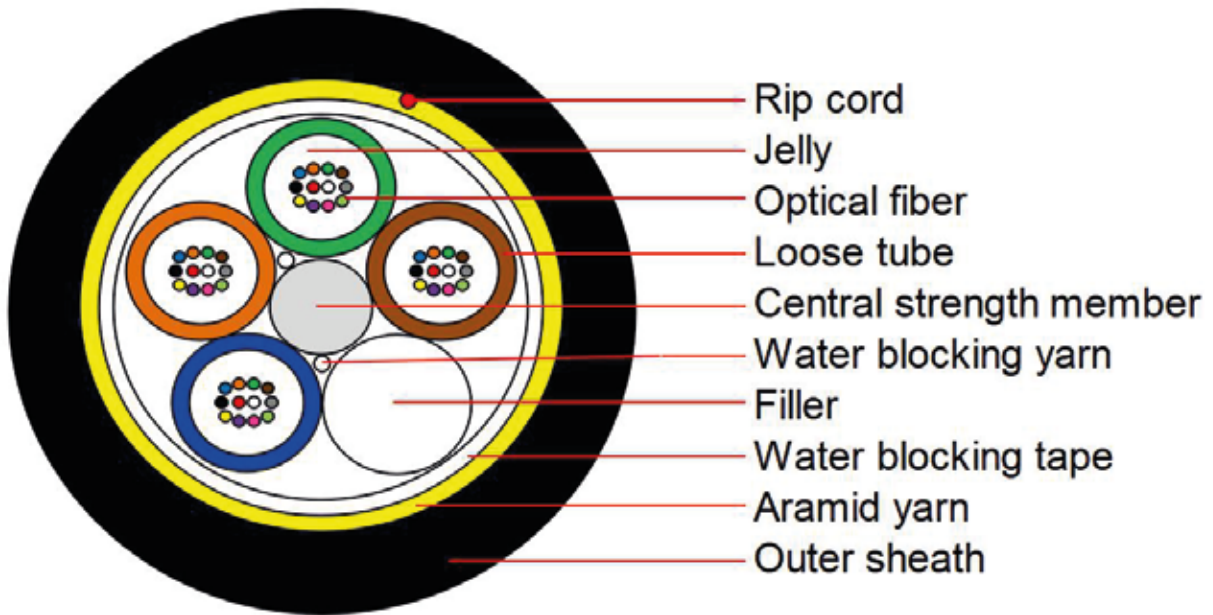
2. Cable Cross-section



ADSS-12



ADSS-24



ADSS-48

3. Cable Identification

3.1 Fiber color code

| | | | | | | |
|-------|------|--------|--------|--------|------|-------|
| No. | 1 | 2 | 3 | 4 | 5 | 6 |
| Color | Blue | Orange | Green | Brown | Gray | White |
| No. | 7 | 8 | 9 | 10 | 11 | 12 |
| Color | Red | Black | Yellow | Violet | Pink | Aqua |

3.2 Loose tube (LT) & filler rod (FR) color code

| Fiber count | Element no. | | | | | | | | | | | |
|-------------|-------------|----|----|----|----|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 12 | LT | LT | FR | FR | FR | | | | | | | |
| 24 | LT | LT | LT | LT | FR | | | | | | | |
| 48 | LT | LT | LT | LT | FR | | | | | | | |

"LT" mean "loose tube"

"FR" means "filler rod"



4. Cable Assembly & Dimensions

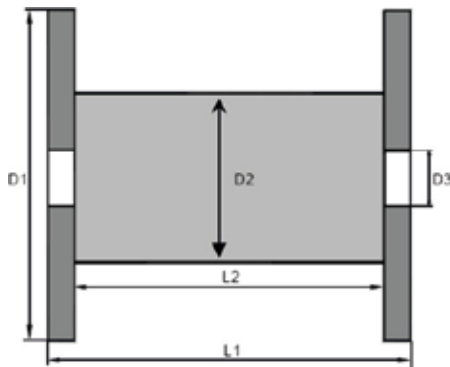
| Item | Contents | Value | | |
|-----------------------------|------------------------|---|---------|----------|
| | | 12 | 24 | 48 |
| Loose tube | Number | 2 | 4 | 4 |
| | Outer diameter (mm) | 2.0 | 2.0 | 2.3 |
| | Thickness(mm) | 0.3 | | |
| | Material | PBT | | |
| | Water blocking | Tube filling compound | | |
| Filler | Material | PP | | |
| | Number | 3 | 1 | 1 |
| Max. Fiber counts per tube | G.652D | 6 | 6 | 12 |
| Central strength member | Material | FRP (Fiber Reinforced Plastic) | | |
| | Diameter (mm) | 1.5 | 1.5 | 1.7 |
| | PE layer diameter (mm) | - | - | - |
| Water blocking | Material | Water blocking yarn & Water blocking tape | | |
| Outer Sheath | Material | PE | | |
| | Color | Black | | |
| | Thickness (mm) | 1.6±0.2 | | |
| Cable diameter(mm) Approx | | 9.2±0.5 | 9.2±0.5 | 10.2±0.5 |
| Cable weight(kg/km) Approx. | | 70 | 70 | 87 |

5. Performance of Cabled Optical Fiber&Cable

| Item | | Unit | Parameter |
|--|--------------------------|---------------------------------|-------------|
| Cable Standard Weight | | kg/km | 70 |
| Rated Tensile Strength | | N | 3600 |
| Short Tensile load | | N | 1500 |
| Long Tensile load | | N | 900 |
| Min-bending radius | Short-term | mm | 25D |
| | Long-term | mm | 15D |
| Crush performance | Short-term | N/100mm | 1000 |
| | Long-term | N/100mm | 300 |
| Suiting Line Voltage Class | | Not more than 110 kV | |
| Span | | m | 120 |
| Suitable meteorological condition | | Max wind speed: 25m/s, No icing | |
| Operation | When working or in store | °C | -40°C-+70°C |
| Temperature | When laying | °C | -10°C-+50°C |
| Fibre Attenuation coefficient in Cable | | dB/km(1310nm) | ≤0.36dB/km |
| | | dB/km(1550nm) | ≤0.22dB/km |

6. Packing

- 6.1 Each single cable length been wound on an wooden drum.
- 6.2 Standard drum length is 3000m ±2% or Customer need
- 6.3 Covered by plastic buffer sheet.
- 6.4 Sealed by strong wooden battens.
- 6.5 At least 3m of cable inner end should be reserved for testing.



Note : The value "D" contain the seal dimension.

| Cable Type | Drum Length (m) | Drum Dimensions | | | |
|------------|-----------------|-----------------|---------|---------|---------|
| | | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) |
| ADSS 12C | 3,000 | 900 | 400 | 770 | 690 |
| ADSS 24C | 3,000 | 900 | 400 | 770 | 690 |
| ADSS 48C | 3,000 | 1000 | 400 | 770 | 680 |

END