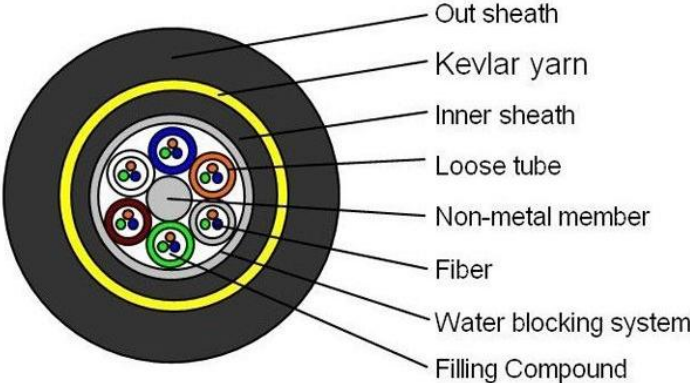


All Dielectric Self-supporting Aerial Cable (ADSS)

Characteristics:

1. Small cable Dia, light weight, 500m span, low attached load on tower.
2. Non-metal structure, good insulation, anti-thunder.
3. Fine production technology, even force for aramid fiber, with superior stress flexibility.
4. Anti gun fire and electro-corrosion. Adapt for bad climate.
5. May construct without power cut, a power line failure doesn't influence cable's normal transfer.
6. Loose cover GYTA cable core, non-metallic core reinforced.
7. Tension units are elastic modulus aramid fiber.
8. Electric trace resistant outer sheath is adopted to run safely under a circumstance of space electric field ($E \leq 25KV/m$).



Application:

1. Erect on the same pole with power line in new and old power line.
2. A long span.
3. Areas of strong electric field, multi-thunder, etc.

Technical Parameters:

| ADSS with grade A sheath (Parts) | | | |
|----------------------------------|------------|-----------|-----------|
| Order Type Model | ADSS-PE 24 | ADSS-PE48 | ADSS-PE72 |
| Fiber count | 24fiber | 48fiber | 72fiber |
| Size of tube | φ2.1mm | φ2.6mm | φ3.0mm |
| Cable diameter | φ13.4mm | φ14.9mm | φ16.4mm |

| | | | |
|------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Cable weight | 139kg/km | 172kg/km | 209kg/km |
| RTS | 38.8kN | 44.3kN | 56.6kN |
| Linear expansion coefficient | $2.2 \times 10^{-6}/^{\circ}\text{C}$ | $2.0 \times 10^{-6}/^{\circ}\text{C}$ | $1.8 \times 10^{-6}/^{\circ}\text{C}$ |
| Young's modulus | 16.5kN/mm ² | 17.5kN/mm ² | 18.6kN/mm ² |

| ADSS with grade B sheath (parts) | | | | |
|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Order Type Model | ADSS-AT 24 | ADSS-AT48 | ADSS-AT72 | ADSS-AT144 |
| Fiber count | 24fiber | 48fiber | 72fiber | 144fiber |
| Size of tube | φ2.1mm | φ2.6mm | φ3.0mm | φ3.0mm |
| Cable diameter | φ13.2mm | φ14.3mm | φ16.3mm | φ20.7mm |
| Cable weight | 146kg/km | 169kg/km | 220kg/km | 344kg/km |
| RTS | 35kN | 37.9kN | 52.9kN | 30.8kN |
| Linear expansion coefficient | $4.5 \times 10^{-6}/^{\circ}\text{C}$ | $4.8 \times 10^{-6}/^{\circ}\text{C}$ | $3.6 \times 10^{-6}/^{\circ}\text{C}$ | $3.5 \times 10^{-6}/^{\circ}\text{C}$ |
| Young's modulus | 15.5kN/mm ² | 14.9kN/mm ² | 17.9kN/mm ² | 6.22kN/mm ² |

International standards:

IEC 61754; TIA/EIA 604-5