

Cable Design:



Technical Data:

| | | | |
|---|-----------------------|------------------------|------|
| No. of cable | | 24 | 48 |
| Fiber Model | | G.652D | |
| Design(Strength Member + Tube & Filler) | | 1+6 | |
| Central Strength Member | Material | FRP | |
| | Diameter (±0.05) mm | 2.1 | 2.1 |
| Loose Tube | Material | PBT | |
| | Diameter (±0.06) mm | 2.0 | 2.0 |
| | Thickness (±0.03) mm | 0.3 | 0.3 |
| | The Max.Core NO./Tube | 12 | 12 |
| | No. | 2 | 4 |
| Filler Rope | Material | LDPE | |
| | Diameter (±0.05) mm | 2.0 | 2.0 |
| | No. | 4 | 2 |
| Water Blocking Material | | Cable Filling Compound | |
| Strength Member (Material) | | Aramid Yarn | |
| Outer Sheath | Material | HDPE | |
| | Thickness (±0.1) mm | 1.7 | 1.7 |
| Cable Diameter (±0.2) mm | | 10.0 | 10.0 |
| Cable Weight (±5) kg/km | | 82 | 82 |
| Maximum operating tension (KN) | | 3.0 | |
| Crush resistance N/100mm | | 1000 | |
| Min. bending radius | Without Tension | 10.0×Cable-φ | |
| | Under Maximum Tension | 20.0×Cable-φ | |
| Temperature range (°C) | Installation | -20~+60 | |
| | Transport&Storage | -40~+70 | |
| | Operation | -40~+70 | |

Loose Tube Colors:

| | | | | |
|-------|------|--------|-------|-------|
| No. | 1 | 2 | 3 | 4 |
| Color | Blue | Orange | Green | Brown |

The properties of single mode optical fiber (ITU-T Rec. G.652.D):

| Item | Specification |
|----------------|---------------|
| Fiber type | Single mode |
| Fiber material | Doped silica |



Outdoor Communication Cable (ADSS Single Sheath)

| | |
|---|--|
| Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm | <input type="checkbox"/> 0.35 dB/km <input type="checkbox"/> 0.35 dB/km <input type="checkbox"/> 0.21 dB/km <input type="checkbox"/> 0.25 dB/km |
| Point discontinuity | <input type="checkbox"/> 0.05 dB |
| Cable cut-off wavelength | <input type="checkbox"/> 1260 nm |
| Zero-dispersion wavelength | 1300 ~ 1324 nm |
| Zero-dispersion slope | <input type="checkbox"/> 0.092 ps/(nm ² .km) |
| PMDQ (Quadrature average*) | <input type="checkbox"/> 0.2 ps/km ^{1/2} |
| Mode field diameter @ 1310 nm | 9.2±0.4 μm |
| Core / Clad concentricity error | <input type="checkbox"/> 0.6μm |
| Cladding diameter | 125.0 <input type="checkbox"/> 1 μm |
| Cladding non-circularity | <input type="checkbox"/> 1.0% |
| Primary coating diameter | 245 <input type="checkbox"/> 10 μm |
| Proof test level | 100 kpsi (=0.69 Gpa), 1% |
| Temperature dependence 0oC~ +70oC @ 1310 & 1550nm | <input type="checkbox"/> 0.1 dB/km |

Part Number:

| Items Name | Part Number |
|---------------------------|--------------------|
| 24 Core Non-Armored Cable | 24F-ADSS100M-SM-AT |
| 48 Core Non-Armored Cable | 48F-ADSS100M-AT |

