

ADSS SPAN 120 DOUBLE JACKET

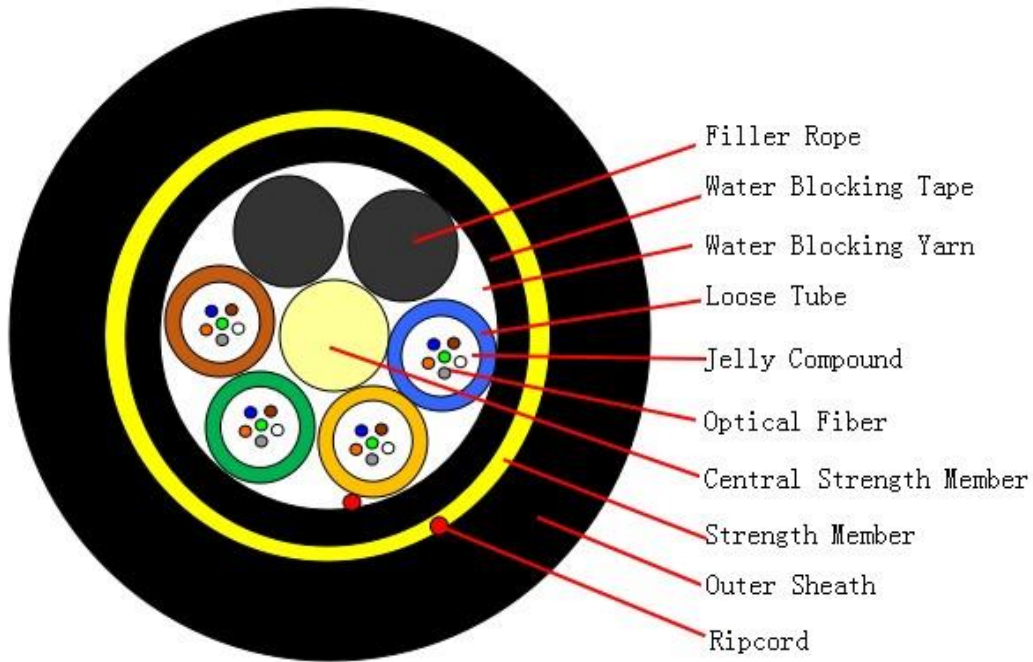
COMCAST GROUP



Technical data

| | | | | | | |
|------------------------------------|------------|-------|-----------|-------------------|-----------|-----------|
| No. of fiber | | / | 12 | | 24 | 48 |
| Span | | m | | 120 | | |
| Design Strength Member+Tube&Filler | | / | | 1+6 | | |
| Fiber type | | / | | G.652D | | |
| Central Strength Member | Material | mm | | FRP | | |
| | Diameter | | | 2.1±0.05 | | |
| Loose Tube | Material | mm | | PBT | | |
| | Diameter | | | 1.8±0.05 | 2.0±0.05 | |
| | Thickness | | | 0.30±0.05 | 0.32±0.05 | |
| | Fiber./per | | | 6 | 12 | |
| Filler Rope | Material | mm | | LDPE | | |
| | Diameter | | | 1.8±0.05 | 2.0±0.05 | |
| | NO. | | 4 | 2 | 2 | |
| Water Blocking Layer | Material | / | | Flooding Compound | | |
| Inner Sheath | Material | mm | | MDPE | | |
| | Thickness | | | 0.8±0.1 | | |
| Additional Strength Member | | / | | Aramid Yarn | | |
| Outer Sheath | Material | mm | | MDPE | | |
| | Thickness | | | 1.5±0.1 | | |
| | Color | | | Black. | | |
| Cable Diameter | | mm | | 10.6±0.2 | 11.0±0.2 | |
| Cable Weight | | kg/km | | 87±5.0 | 96±5.0 | |

Draw



Fibre Color

| | | | | | | |
|--------------|------|--------|--------|--------|------|-------|
| 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 |

Loose Tube Color

| | | | | |
|--------------|------|--------|-------|-------|
| 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 |
| Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm | <input type="checkbox"/> 0.35 dB/km <input type="checkbox"/> 0.32 dB/km <input type="checkbox"/> 0.21 dB/km <input type="checkbox"/> 0.24dB/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) |
| Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm | <input type="checkbox"/> 3.5 ps/(nm. km) <input type="checkbox"/> 5.3 ps/(nm. km) <input type="checkbox"/> 18 ps/(nm. km) <input type="checkbox"/> 22 ps/(nm. km) |
| PMD _Q (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"/> 0.5 μm |
| Cladding diameter | 125.0 ± 0.7 μm |
| Cladding non-circularity | <input type="checkbox"/> 1.0% |
| Primary coating diameter | 245 ± 10 μm |
| Proof test level | 100 kpsi (=0.69 Gpa), 1% |
| Temperature dependence 0oC~ +70oC @ 1310 & 1550nm | <input type="checkbox"/> 0.1 dB/km |

Main mechanical & environmental performance test

| Item | Test Method | Acceptance Condition |
|--|---|--|
| Tensile Strength IEC 60794-1-2-E1 | - Load: 2500N - Length of cable: about 50m | - Fiber strain \leq 0.33% - Loss change \leq 0.1 dB @1550 nm |
| | | - No fiber break and no sheath damage. |
| Crush Test IEC 60794-1-2-E3 | - Load: 2500N/100mm - Load time: 1min | - Loss change \leq 0.1dB@1550nm - No fiber break and no sheath damage. |
| Impact Test IEC 60794-1-2-E4 | - Points of impact: 3 - Times of per point: 1 - Impact energy: 5J | - Loss change \leq 0.1dB@1550nm - No fiber break and no sheath damage. |
| Temperature Cycling Test IEC60794-1-22-F1 | - Temperature step: +20°C→-40°C→+70°C →+20°C - Time per each step: 12 hrs - Number of cycle: 2 | - Loss change \leq 0.1 dB/km@1550 nm - No fiber break and no sheath damage. |

Sheath marking

The optical fiber drop cable shall have sequentially numbered length marking at intervals of approximately 1 meter. The starting number of ordering length for any coil shall begin with zero meter. The accuracy of the measurement of length marking shall be held within the limits of $\pm 1\%$.

- a) Manufacturer's name
- b) Type of wire
- c) Year and month of manufacture
- d) Length marking each meter along the wire

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