

CABLE SPECIFICATION

DESCRIPTION

48 F Distribution Cable, G.652D

SCOPE OF APPLICATION

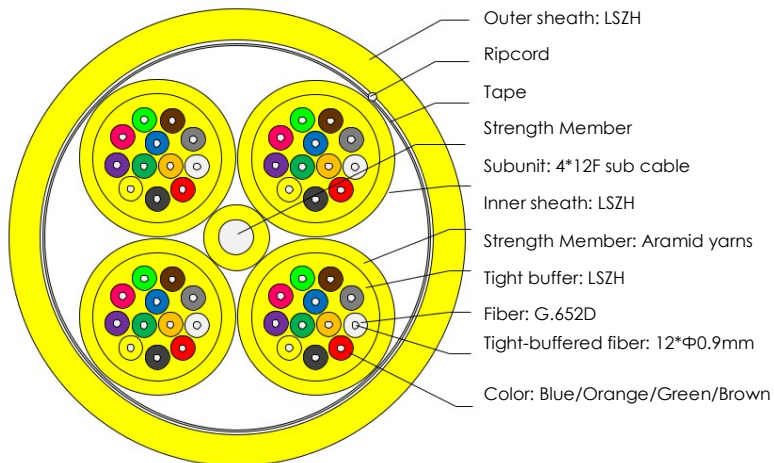
Mainly used as indoor vertical and horizontal wiring cable.

Mainly used for communication between indoor user access points and fiber splitting points.

Apply to the shaft, pipe, groove, wall, ceiling and other indoor environment installations.

Also used as signal connection cable for ODF and optical communication equipment.

CROSS-SECTION



Optical fiber, tight buffer and sheath types are selected according to customer's requirements.

Conventional supply types are PVC tight buffer and LSZH sheath.

Sheath color: SM: yellow; MM: OM1/OM2 orange, OM3 aqua blue, OM4 purple, OM5 green.

Tight buffer color and sheath color can also be according to customer's requirements.

DIMENSIONS

1. Tight buffer diameter: 0.85±0.05mm, or 0.90±0.05mm
2. Cable diameter: 16.2±0.8mm; Outer sheath thickness: 1.3±0.2mm
3. Cable weight: approx. 200kg/km

FIBER PERFORMANCE

1. Comply with IEC 60793-2-50:2018, IEC 60793-2-10/20/30/40:2015
2. Attenuation of cabled fiber:
 - SM: ≤0.8dB/km@1310nm, Typical value: 0.33~0.40; ≤0.6dB/km@1550nm, Typical value: 0.18~0.30
 - MM: ≤3.5dB/km@850nm, Typical value: 2.50~3.00; ≤1.5dB/km@1300nm, Typical value: 0.50~1.00

CABLE MECHANICAL PERFORMANCE

1. Tensile performance: IEC 60794-1-21-E1
 - Short term: 1320N (vertical), 660N (horizontal), 220N (device), no change in attenuation after test
 - Long term: 400N (vertical), 200N (horizontal), 70N (device connection), no change in attenuation
2. Crush: IEC60794-1-21-E3
 - Short term: 1000N, no fiber breakage, no sheath damage
 - Long term: 300N (vertical), 200N (horizontal/device connection), no change in attenuation
3. Impact: 1J/3times, no fiber breakage, no sheath damage, IEC 60794-1-21-E4
4. Repeated bending: 20D/40N/100cycles, no fiber breakage, IEC 60794-1-21-E6
5. Torsion: 20N/±180°/10cycles, no fiber breakage, IEC 60794-1-21-E7
6. Flexing: 20D/20N/100cycles, no fiber breakage, IEC 60794-1-21-E8
7. Bending: 20D/6turns/10cycles, no fiber breakage, IEC 60794-1-21-E11A
8. Bending at low temperature: -15°C, no fiber breakage, no sheath damage, IEC 60794-1-21-E11A
9. Min bending radius: 10D (Operation); 20D (Installation)

CABLE ENVIRONMENTAL PERFORMANCE

1. Operation/storage temperature: -20~+60°C
2. Installation temperature: -5~+50°C
3. Temperature cycling: -20~+60°C/8h/2cycles, additional attenuation
 - SM: ≤0.4dB/km@1550nm; MM: ≤0.6dB/km@1300nm, IEC 60794-1-22-F1
4. Fire performance: pass the single cable vertical flame test, IEC 60332-1-2
5. Environmentally friendly: RoHS compliant