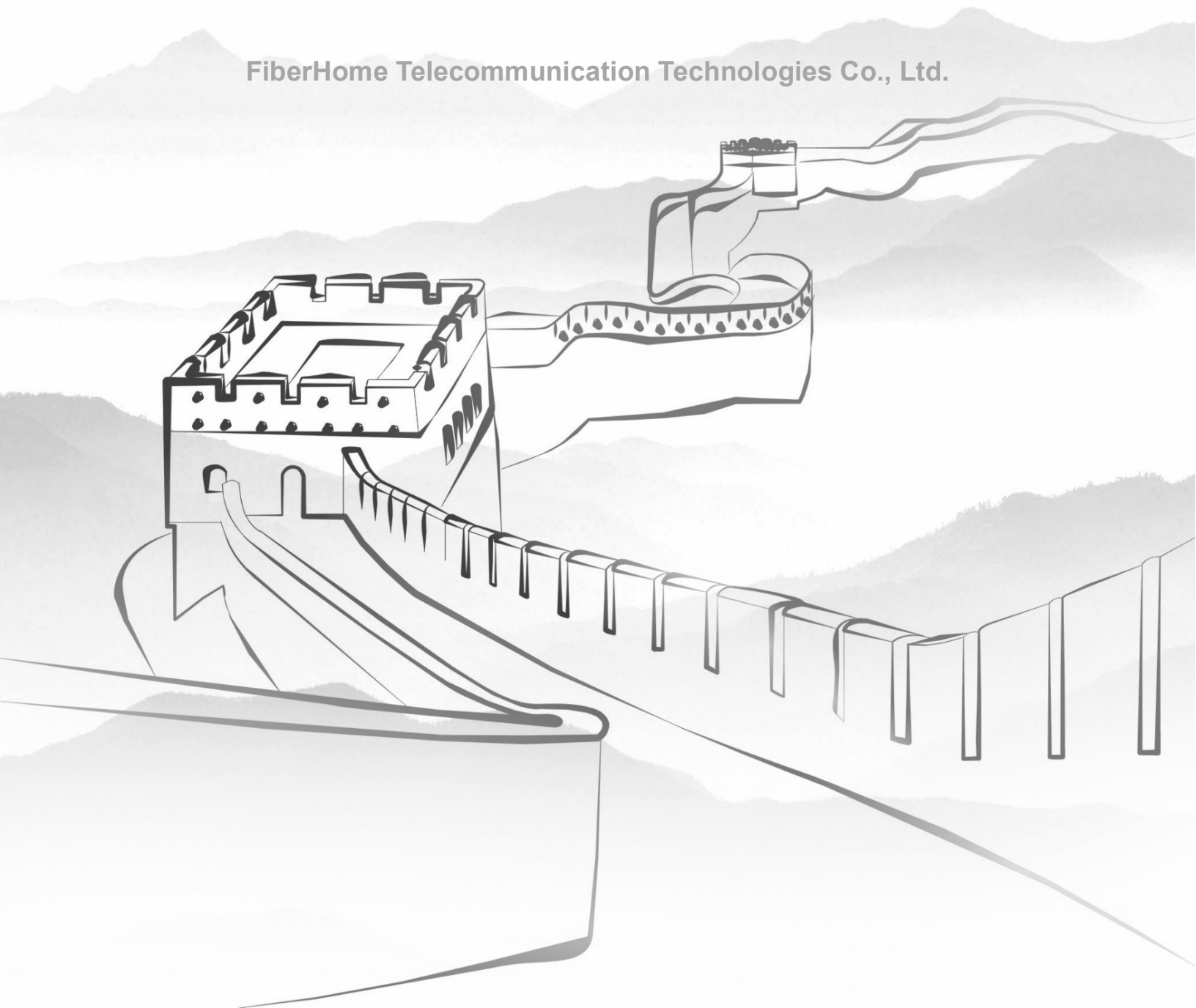


Optical Fiber Cable Specification



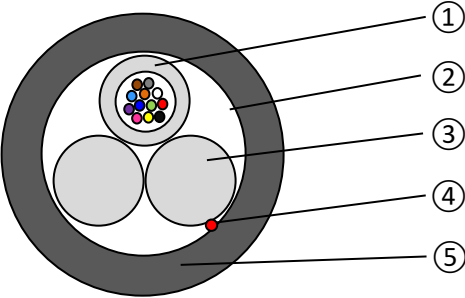
FiberHome Telecommunication Technologies Co., Ltd.



Single-mode ASU-24 Cable Specification

Cable Design

ASU-Dielectric-Single Sheath-G.652D



- ① **Loose tube:** filled with a suitable water tightness compound, containing fibers
- ② **Water penetration:** water blocking yarns and bind yarns
- ③ **Reinforcement members:** FRP stranding with loose tube
- ④ **Ripcord:** 2 ripcord under outer sheath
- ⑤ **Outer Sheath:** Black-MDPE

Cable Specification

Cable Cores		24	
No. of Fibers		24	
Span	m	80	120
Loosetube Number		1	1
Loosetube Diameter	mm	2.6	2.6
Strength member		2	2
Strength member Diameter	mm	2.0	2.5
Sheath Thickness	mm	0.8	1.0
Nominal Cable Diameter	mm	6.8	7.8
Nominal Cable Weight	Kg/km	45	58

Cable Performance

Cable performance		
Test	Specified Value	Acceptance Criteria
Tensile IEC 60794-1-21, E1	900N(80m) , 1300N(120m) 1 min, L≥50m	Δα≤0.10dB, no sheath damage after test
Crush IEC 60794-1-21, E3	1000 N/10cm, 1 min, Plate/Plate	Δα≤0.10dB, no sheath damage after test
Impact IEC 60794-1-21, E4	4.5 J, 1 time/3 points, R=12.5mm	Δα≤0.10dB, no sheath damage after test
Repeated Bending IEC 60794-1-21, E6	R=20D, 25 cycles, 20N	Δα≤0.10dB, no sheath damage after test
Torsion IEC 60794-1-21, E7	0.5m, 10 cycles, ±180°, 20N	Δα≤0.10dB, no sheath damage after test
Temperature Cycling IEC 60794-1-22, F1	2 cycles, -20~+65°C, 12 h	Δα≤0.10dB/km, no sheath damage after test
Water Penetration IEC 60794-1-22, F5	3m sample, 1m height, 24 h	No water leakage after test

Fiber Performance

G.652D performance		
Characteristics		Acceptance Value
Attenuation (IEC 60793-1-40)	@1310nm	≤0.35 dB/km
	@1383nm	≤0.35 dB/km
	@1550nm	≤0.21 dB/km
	@1625nm	≤0.23 dB/km
Mode field diameter (MFD)	@1310nm	9.2±0.4 μm
	@1550nm	10.4±0.5 μm
Chromatic dispersion coefficient (IEC 60793-1-42)	1288~1339nm (absolute value)	≤3.5 ps/(nm·km)
	1271~1360nm (absolute value)	≤5.3 ps/(nm·km)
	@1550 nm	≤18 ps/(nm·km)
Zero-dispersion wavelength		1302nm~1322 nm
Zero-dispersion slope		≤0.092 ps/(nm ² ·km)
Cable cut-off wavelength λ _{cc} (nm)		≤1260 nm
PMD (for fiber on the reel) (IEC 60793-1-48)		≤0.20 ps/km ^{1/2}
Cladding diameter		125±0.7 μm
Cladding non-circularity		≤0.60 %
Core/cladding concentricity error		≤0.5 μm
Proof test		≥0.69 GPa (100kpsi)

Sheath Marking

The outer sheath is marked in 1 meter intervals as follows (Example):

LinkedPro by FiberHome ASU 24FO G652D SPAN 120M MINIADSS24CS120 2025 LOT1 Drum NO. ****m

Cable Packing

1.1 Standard cable length for each reel

- Standard length: 4000m per reel Order tolerance: ± 5%.
- Other cable length available.
- Nonstandard length: Max 5% as per mutual agreement under Customer Approval.

----- End of Specification -----