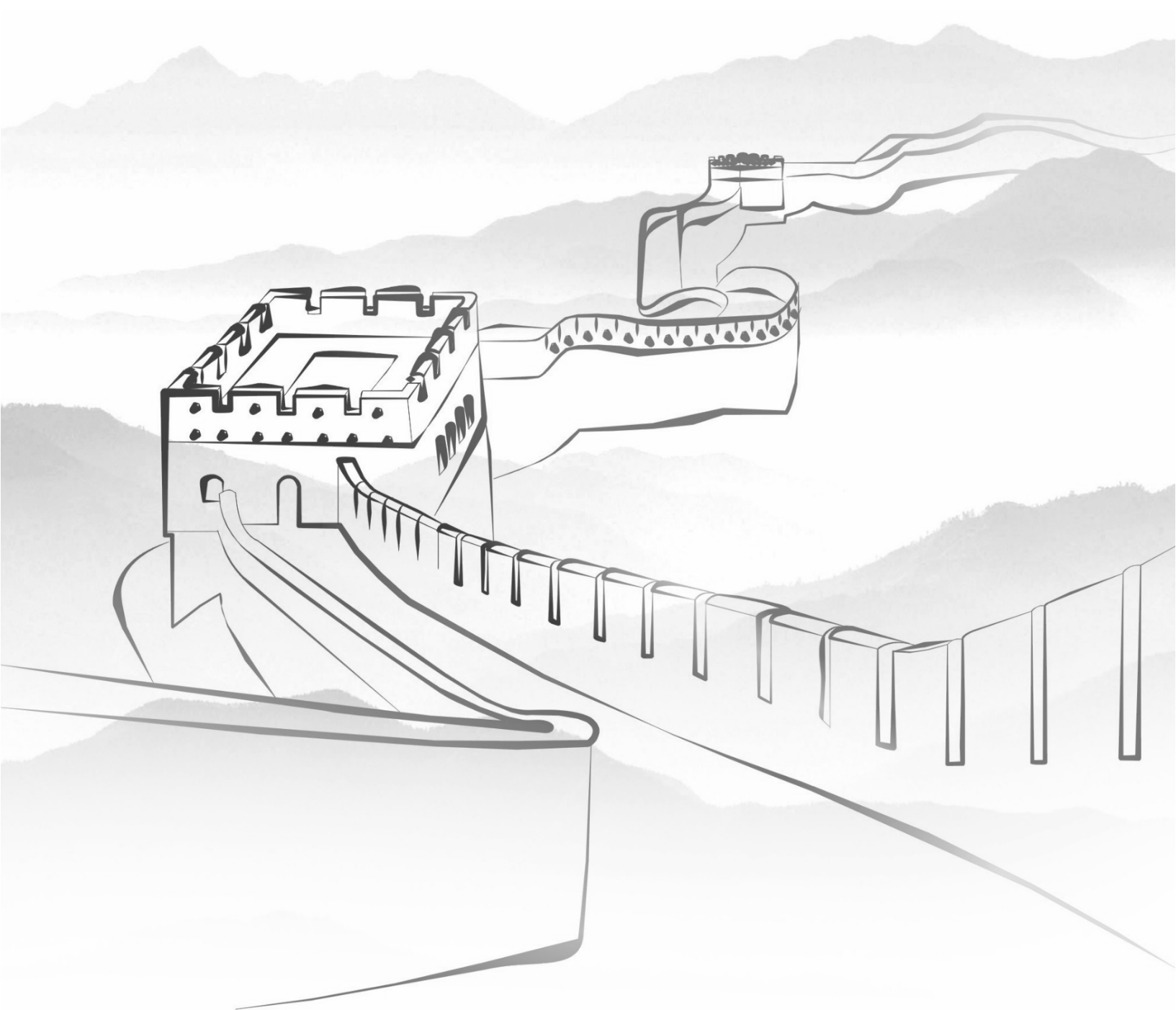


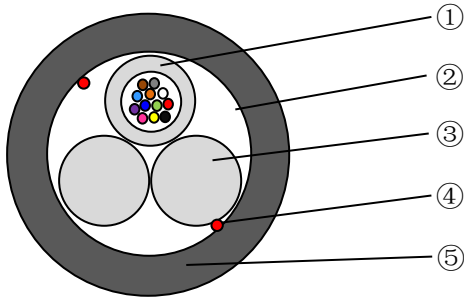
Optical Fiber Cable Specification



Single-mode ASU 12 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		12
No. of Fibers		12
Span	m	120
Loosetube Number		1
Loosetube Diameter	mm	2.3
Strength member		2
Strength member Diameter	mm	2.1
Sheath Thickness	mm	1.0
Nominal Cable Diameter	mm	7 ± 0.5
Nominal Cable Weight	Kg/km	46 ± 10

Cable Application

Temperature Range		Minimum Bend Radius	
Transportation & Storage	-20~+65°C	Load	25×D
Operation	-20~+65°C	Unload	12.5×D

Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile	IEC 60794-1-2-E1	Operation 900N	$\Delta\alpha \leq 0.1\text{dB}$, no damage
		Installation 1300N	$\Delta\alpha$ reversible, no damage
Crush	IEC 60794-1-2-E3	1000N/10cm	$\Delta\alpha$ reversible, no damage
Impact	IEC 60794-1-2-E4	1.5J, R=300mm, 3points	$\Delta\alpha$ reversible, no damage
Repeated Bending	IEC 60794-1-2-E6	R=20D, 25cycles	$\Delta\alpha$ reversible, no damage
Torsion	IEC 60794-1-2-E7	1m, $\pm 180^\circ$, 10cycles	$\Delta\alpha$ reversible, no damage
Water Penetration	IEC 60794-1-2-F5	3m sample, 1m height, 24h	No water leakage

Cabled Fiber Performance G.652D

	Characteristics	Acceptance Value
Attenuation	@1310nm	$\leq 0.36\text{dB/km}$
	@1550nm	$\leq 0.22\text{dB/km}$

Sheath Marking

According to Customer's Requirements

Delivery Lengths

Standard delivery length will be 2/3/4km.