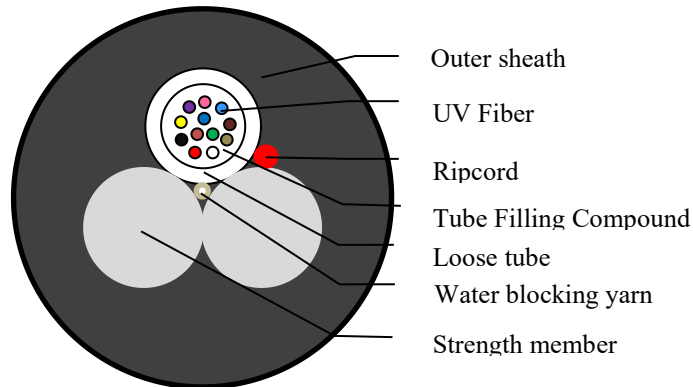


## Mini ADSS-6FO/12FO Span 80m (ASU) Specification G.652D

### Cable Cross-section and Dimensions



**Figure. Cable Cross-Section (A-end)**

Item	Material	Description
Outer sheath	MDPE	Colors of sheath: black
Strength member	FRP	FRP
Loose tube	PBT	Colors of tubes: natural
Water blocking yarn	Polyester yarn	Water blocking & Moisture proof
Tube filling compound	Thyrotrophic gel	Water blocking & Moisture proof
Fiber	Silicon-based fiber (G.652D)	UV colored fiber with: green, yellow, white, blue, red, violet, brown, pink, black, gray, orange, aqua

XX= 6,12, (cable cores)

Cable Cores	Unit	6	12
No. of Tubes		1	1
No. of Fillers		0	0
Fiber Counts in Tube		6	12
Cable Diameter	mm	6.6±0.3	
Cable Weight	Kg/km	50±10	
Allowable tensile strength (N)		1250N	
Allowable crush resistance (N)		1000N/10cm	
Operation temperature		-20 ° C +65 ° C	
Application		Maximum 80m aerial using	

<b>G.652D fiber characteristics</b>		
<b>Optics specifications</b>		
Attenuation	@1310nm	$\leq 0.350\text{dB/km}$
	@1383nm(after hydrogen aging)	$\leq 0.350\text{dB/km}$
	@1550nm	$\leq 0.210\text{dB/km}$
	@1625nm	$\leq 0.240\text{dB/km}$
Zero-Dispersion slope		$\leq 0.092\text{ps}/(\text{nm}^2 \cdot \text{km})$
Dispersion	@1550nm	$\leq 18.0\text{ps}/(\text{nm} \cdot \text{km})$
	@1625nm	$\leq 22.0\text{ps}/(\text{nm} \cdot \text{km})$
Zero-Dispersion wavelength		1300nm ~ 1324nm
Mode field diameter (MFD) at 1310nm		$9.2 \pm 0.6\mu\text{m}$
Mode field diameter (MFD) at 1550nm		$10.5 \pm 1.0\mu\text{m}$
Polarization Mode Dispersion	PMD (Single Value)	$\leq 0.20\text{ps}/\text{km}^{1/2}$
	$M \geq 20$	Cables
	Q	0.01%
	PMD <sub>Q</sub> (Link Value)	$\leq 0.10\text{ps}/\text{km}^{1/2}$
Cable cutoff wavelength $\lambda_c(\text{nm})$		$1180\text{nm} \leq \lambda_c \leq 1330\text{nm}$
Cable cutoff wavelength $\lambda_{cc}(\text{nm})$		$\leq 1260\text{nm}$
<b>Back scatter characteristics (at 1310nm&amp;1550nm)</b>		
Point discontinuity		$\leq 0.05\text{dB}$
Attenuation uniformity		$\leq 0.05\text{dB/km}$
Attenuation coefficient difference for bi-directional measurement		$\leq 0.05\text{dB/km}$
<b>Geometrical characteristics</b>		
Cladding diameter		$125 \pm 1.0\mu\text{m}$
Cladding non-circularity		$\leq 1.0\%$
Core concentricity error		$\leq 0.6\mu\text{m}$
Fiber diameter with coating (uncolored)		$245 \pm 15\mu\text{m}$
Fiber diameter with coating (colored)		$250 \pm 15\mu\text{m}$
Cladding/coating concentricity error		$\leq 12.5\mu\text{m}$
Curl		$\geq 4\text{m}$
<b>Mechanical characteristics</b>		
Proof stress		$\geq 0.69\text{GPa}(100\text{kpsi})$
Coating strip force (typical value)		1.4N
Dynamic stress corrosion susceptibility parameter (typical value)		$\geq 20$
Macrobend loss at 1550/1625nm	$\Phi 30\text{mm}, 100\text{ turns}$	$\leq 0.10\text{dB}$
	$\Phi 16\text{mm}, 1\text{ turns}$	$\leq 0.10\text{dB}$