

3. Structure Span 120m

Project	unit	Parameter			
Span	m	120			
Optical Fiber G.652D	Number	6	8	12	24
FRP Stiffener	±0.1mm	2.0	2.0	2.0	2.0
FRP Stiffener	Number	2	2	2	2
PBT Loose Tube	±0.1mm	1.8	1.8	2.0	2.4
PBT Loose Tube	Number	1	1	1	1
Ripcord	Number	1	1	1	1
Outer sheath	±0.1mm	1	1	1	1
Cable Diameter	±0.3mm	6.2	6.2	7.2	7.2
Cable weight	±5Kg/km	37	37	40	48

Product Mechanical performance parameter

Project	unit	Parameter
Wind speed	km/hr	60
Thickness of the ice	mm	5
MAT	N	1800
RTS	N	4500
EDS	N	1000
Long Flattening Force	N/100mm	1000
Short Flattening Force	N/100mm	3000
Static Bending Radius	mm	20D
Dynamic Bending Radius	mm	30D
Storage Temperature	°C	-40 ~ 60
Install Temperature	°C	-10 ~ 60
Run Temperature	°C	-40 ~ 60

Optical characteristic parameter

Optical Fiber Type: G.652D		unit	Parameter
Attenuation Coefficient	@1310nm	dB/km	≤0.36
	@1383nm	dB/km	≤0.36
	@1550nm	dB/km	≤0.22
	@1625nm	dB/km	≤0.22
Effective Group Refractive Index	@1310nm		1.467
	@1550nm		1.467
Polarization Mode Dispersion		ps/√km	≤0.1
MFD 1310 nm		±0.3 μm	9.0
MFD 1550 nm		±0.3 μm	10.0
Cladding Diameter		±1.0 μm	125.0
Cladding Non-Circularity		%	≤1.0
Core/Cladding Concentricity Error		μm	≤0.8
Coating Diameter		μm	242±7
Core No-Circularity		%	≤6.0
Coating/Cladding Concentricity Error		μm	≤12.0
Cable Cut-Off		nm	≤1260
Zero Dispersion Wave length		±10 nm	1312
Dispersion Slope		ps/(nm ² ·km)	0.092
PMD link design value		ps/√km	≤0.05

Product standards :

ITU-T G652D;ANSI/ICEA S-87-640;EN 187105; IEC 60794-1;YD/T 901-2009