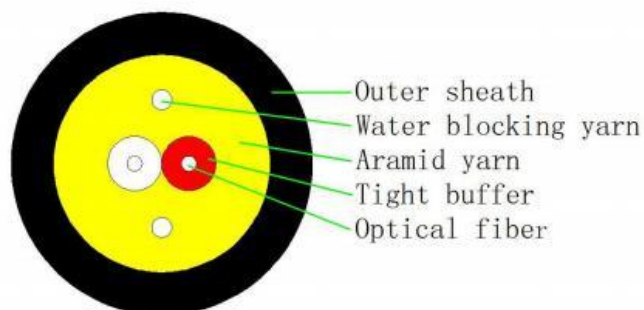




Hot Sales Indoor|Outdoor Fiber Optic Cable GJXZY Multi-Cores Lose Tube 12 24 Cores OS2 SM G657 G652D FR LSZH Black|White

Cable Design



Technical data

No. of cable			2-24
Fiber Model			G.657A1
Tight lines	Material		PVC
	Thickness(±0.03) mm		0.32
	Diameter(±0.06) mm		0.9
	Colour		White&Red
Strength Member	Material		Aramid Yarn
Outer Sheath	Material		LSZH
	Thickness(±0.05) mm		0.8
	Colour		Black/White
Cable Diameter(±0.2) mm			5.0
Cable Wegtht(±1) kg/km			22
Attenuation	1310nm	dB/km	≤0.36
	1550nm		≤0.22
Allowable Tensile Strength	Short Term	N	300
	Long Term		180
Allowable Crush Resistance	Short Term	N/100mm	500
	Long Term		100
Min.	Without Tension		10.0×Cable- ϕ



Tight lines Colour

bending radius	Under Maximum Tension	$20.0 \times \text{Cable-} \phi$
Temperature range (°C)	Installation	-20~+60
	Transport&Storage	-40~+60
	Operation	-40~+60

The properties of single mode optical fiber (ITU-T Rec. G.657A1)

Characteristic	condition	data	unit
Optical properties			
Attenuation	1310nm	≤ 0.35	dB/km
	1383nm	≤ 0.35	dB/km
	1490nm	≤ 0.23	dB/km
	1550nm	≤ 0.22	dB/km
	1625nm	≤ 0.23	dB/km
Relative wavelength attenuation @1310nm @1550nm	1285~1330nm	≤ 0.05	dB/km
	1525~1575nm	≤ 0.05	dB/km
Dispersion in the wavelength range of	1285~1340nm	≤ 3.5	ps/(nm.km)
	1550nm	≤ 18	ps/(nm.km)
Zero dispersion wavelength		1300~1324	nm
A zero-dispersion slope		≤ 0.092	ps/(nm ² .km)
Polarization Mode Dispersion			
Coefficient PMD		≤ 0.2	ps/
Single fiber maximum		≤ 0.1	ps/
Fiber link value (M=20, Q=0.01%)		0.04	ps/
Typical value			ps/
Cable cut-off wavelength (λ_{cc})		≤ 1260	nm
Mode field diameter (MFD)	1310nm	8.8 ± 0.4	μm
	1550nm	9.8 ± 0.5	μm
Attenuation discontinuities	1310nm	≤ 0.05	dB
	1550nm	≤ 0.05	dB



Geometric characteristics			
Core diameter		125±0.7	μm
Cladding roundness		≤0.7	%
Coating diameter		245±5	μm
Coating / package concentricity error		≤12.0	μm
Core / package concentricity error		≤0.5	μm
The warpage (radius)		≥4	m
Environmental characteristics (1310nm、1550nm、1625nm)			
Temperature additional attenuation	-60℃ ~+85℃	≤0.05	dB/km
Temperature-humidity cycle additional attenuation	-10℃ ~+85℃, 98% Relative humidity	≤0.05	dB/km
Flooding additional attenuation	23℃, 30 days	≤0.05	dB/km
Hot and humid additional attenuation	85℃ 和 85% Relative humidity, 30 days	≤0.05	dB/km
Dry heat aging	85℃	≤0.05	dB/km
Mechanical properties			
Screening tension		≥9.0	N
The macro bend Additional attenuation			
	10 CircleΦ30mm	1550nm	≤0.025 dB
	10 CircleΦ30mm	1625nm	≤1.0 dB
	1 CircleΦ20mm	1550nm	≤0.75 dB
	1 CircleΦ20mm	1625nm	≤1.5 dB
Coating peeling force	Typical average	1.5	N
Dynamic fatigue parameters		≥20	

Sheath marking

The color of marking is white, but if the remarking is necessary, the black color marking shall be printed newly on a different position.

An occasional unclear of length marking is permitted if both of the neighboring markings are clear.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.