

SPECIFICATION

FOR

Optical Fiber Cable

GJFJY 4/6/8/12/16/24/32/36/48 CORE TYPE

PVC/LSZH Jacket

MaxBand® 150 Fibre

Characteristics	Conditions	Specified Values	Units
Optical Characteristics			
Attenuation	850 nm	≤2.3	[dB/km]
	1300 nm	≤0.6	[dB/km]
OFL Bandwidth	850 nm	≥700	[MHz·km]
	1300 nm	≥500	[MHz·km]
Effective Modal Bandwidth	850 nm	≥950	[MHz·km]
	1300 nm	≥500	[MHz·km]
Application support distance on 10 G Ethernet SX		150	[m]
DMD Specification	850 nm	850 nm DMD inner mask (ps/m) (Radius 5-18 μm) ≤0.70	850 nm DMD outer mask (ps/m) (Radius 0-23 μm) ≤0.70
The minimum EMB can be ensured under the condition of: 1.The transmission wavelength λ be in the range: $840 \leq \lambda \leq 860$ nm. 2.The encircled flux at radius $4.5 \mu\text{m} \leq 30\%$, and encircled flux at radius $19 \mu\text{m} \geq 86\%$. (Ref: TIA/EIA-492 AAAC)			
Numerical Aperture		0.200±0.015	
Group index of refraction	850 nm	1.482	
	1300 nm	1.477	

Form one single mode fiber : SMF-28e

Item	Unit	Specification
Attenuation	dB/km	1310nm ≤ 0.4 1550nm ≤ 0.3
Dispersion	Ps/nm.km	1285~1330nm ≤ 3.5 1550nm ≤ 18.0
Zero dispersion wavelength	Nm	1300~1324
Zero dispersion slope	Ps/nm.km	≤ 0.095
Fiber cutoff wavelength	Nm	≤ 1260
Mode field diameter	Um	9.2 ± 0.5
Mode field concentricity	Um	≤ 0.8
Cladding diameter	um	125 ± 1.0
Cladding non-circularity	%	≤ 1.0
Coating/cladding concentricity error	Um	≤ 12.5
Coating diameter	um	245 ± 10
bending,dependence attenuation	induced	1550nm, 1turns,32mm diameter 100turns,60mm diameter
Proof test	kpsi	≥ 100

Form two multimode fiber

Item	Unit	Specification
Attenuation	dB/km	850 nm ≤ 3.5 1300 nm ≤ 1.5
Bandwidth	MHz • km	50/125um 62.5/125 um 850 nm ≥ 200 850 nm ≥ 160 1300 nm ≥ 200 1300 nm ≥ 200
Cladding diameter	um	125 ± 1.0
Cladding non-circularity	%	≤ 1.0
Coating/cladding concentricity error	Um	≤ 12.5
Coating diameter	um	245 ± 10
bending,dependence attenuation	induced	850nm,1300nm 100turns,75mm diameter ≤ 0.5 at 850 nm\1300 nm
Proof test	kpsi	≥ 100

Each requirement

- 1 –Fiber count-----4/6/8/12/16/24/32/36/48
- 2 – Fiber characteristic -----OD: 245 ± 10 um
- 3 Characteristic of tight buffered OD: 0.87 ± 0.05 mm
- 4 Thickness of buffered jacket: 0.31 ± 0.03 mm
 24 CORE Buffered Color: blue/orange/green/brown/grey/white/red/black/yellow/purple/pink/aqua **With dashed:** blue/orange/green/brown/grey/white/red/
 varied /yellow/ purple/pink /Aqua; 36 CORE Buffered Color: blue/orange/green/brown/grey/white/red/black/yellow/purple/pink/aqua; **With dashed 1:**
blue/orange/green/brown/grey/white/red/ varied /yellow/ purple/pink /Aqua ; With dashed 2: blue/orange/green/brown/grey/white/red/ varied /yellow/
 purple/pink /Aqua ; 48 CORE Buffered Color: blue/orange/green/brown/grey/white/red/black/yellow/purple/pink/aqua ; **With dashed 1 :**
blue/orange/green/brown/grey/white/red/ varied /yellow/ purple/pink /Aqua ; With dashed 2: blue/orange/green/brown/grey/white/red/ varied /yellow/
 purple/pink /Aqua ; **With dashed 3:** blue/orange/green/brown/grey/white/red/ varied /yellow/ purple/pink /Aqua
- 5 Aramid yarn for round strength
- 6 Out jacket: PVC/LSZH
- 7 – Environmental Protection RoHS COMPLIANT

Application:

Model	Fiber account	OD (mm)	Nominal Weight (kg /km)	Max. Tension (N)		Max. Crushing Resistance (N/100)	
				Short-term	Long-term	Short-term	Long-term
GJFJV(Y)	4	4.8+-0.2	18	270	90	1000	300
GJFJV(Y)	6	5.2+-0.2	23	330	110	1000	300
GJFJV(Y)	8	6.2+-0.2	29	480	160	1000	300
GJFJV(Y)	12	6.8+-0.3	37	600	200	1000	300
GJFJV(Y)	16	7.6+-0.3	46	600	200	1000	300
GJFJV(Y)	24	8.4+-0.5	61	720	240	1000	300
GJFJV(Y)	32	10.2+-0.3	98	1000	330	1000	300
GJFJV(Y)	36	10.5+-0.5	110	1000	330	1000	300
GJFJV(Y)	48	12.5+-0.5	132	1200	520	1000	300

The true weight of optical cable may had some tolerance with the above stated value.

Temperature range

Storage or transportation: -20~70°C

Operation: -20~70 °C

Package and shipping mark

Printing at outjacket of optical cable

White color printing words at each meter distance, standard printing content as following ,also can match the customer require for the printing content

1. Meter mark
2. Style of optical cable and fiber account
3. Manufacturer name
4. Manufacture date

Package of optical cable

Standard length is 1KM ,other length can negotiate

Can be packed in wooden drum or plywood drum

Wooden drum

Label will be stuck at wooden drum, content as following

1. Style of optical cable and fiber account
2. Length
3. Gross weight KGS
4. Total drums amount
5. Manufacture date

Section picture of optical cable

Description

