

FIBER OPTIC OPNET GYJFJZ 12 CORES SINGLE MODO G.652D TIGHT BUFFERED, YELLOW COLOR JACKET. LSZH

1. Cable Structure



CABLE STRUCTURE AND PARAMETERS:

Physical Parameters	Fiber Count	12
	Fiber Type	G.652D
	Cable Outer Diameter(O.D.)	9.9mm
	Cable Weight	89KG/KM
	Outer Sheath Thickness	1.4mm
	Operating temperature range	-40°C to +60°C
	Storage / Transport temperature range	-50°C to +70°C
	Installation temperature range	-30°C to +50°C
Mechanical Parameters	Tensile Strength Long Term	800N
	Tensile Strength Short Term	1800N
	Crush Resistance	500N/100mm
	Bending Radius(Short Term)	20×O.D.
	Bending Radius(Long Term)	10×O.D.

Notes:

1. The nominal sheath thickness may vary by $\pm 0.2\text{mm}$.
2. The nominal outer diameter and weight may vary by $\pm 0.2\text{mm}$.

2. Color Code of Optical Fiber and Loose Tube

1. Color Code of Optical Fiber (Comply with IEC-793-2 and TIA/EIA-598-A Standard)

Fiber No.	1	2	3	4
Color	Blue	Orange	Green	Brown

Note) Color code may be changed upon customer's request.

2. Color Code of Tube (Comply with IEC-793-2 and TIA/EIA-598-A Standard)

Tube No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Note) Color code may be changed upon customer's request.

3. Unit Composition of Optical Fiber Cable

Fiber Count	U1	U2	U3	U4	U5	U6	U7	U8	U9	U10	U11	U12
12C	1	1	1	1	1	1	1	1	1	1	1	1
24C	2	2	2	2	2	2	2	2	2	2	2	2
36C	4	4	4	4	4	4	4	4	4			
48C	4	4	4	4	4	4	4	4	4	4	4	4

4. Fiber Specifications

Optical Properties G.652D Fiber

Items of Properties		Value
Geometrical Characteristics	Mode field diameter @1310nm	$9.2 \pm 0.4 \mu\text{m}$
	Mode field concentricity error	$\leq 0.8 \mu\text{m}$
	Cladding diameter	$125 \pm 1 \mu\text{m}$
	Cladding non-circularity	$\leq 1.0 \%$
	Coating diameter (Excluding color coating)	$245 \pm 10 \mu\text{m}$
Optical Characteristics	Cutoff wavelength (λ_{cc})	$\leq 1260\text{nm}$
	Attenuation coefficient @1310nm (maximum) @1550nm (maximum)	$\leq 0.36 \text{ dB/km}$ $\leq 0.22 \text{ dB/km}$
	1550nm bending loss (60mm mandrel, 100 turns)	$\leq 0.05 \text{ dB}$
	Attenuation uniformity	$\leq 0.05 \text{ dB}$
	Chromatic dispersion coefficient @1285~ 1330nm @1550nm	$\leq 3.2 \text{ ps/nm.km}$ $\leq 18 \text{ ps/nm.km}$
	Zero dispersion wavelength	1302~ 1322nm
	Zero dispersion slope	$\leq 0.092 \text{ ps/nm}^2.\text{km}$
	PMD (IEC60794-3 Annex A)	$\leq 0.5 \text{ ps}/\sqrt{\text{km}}$