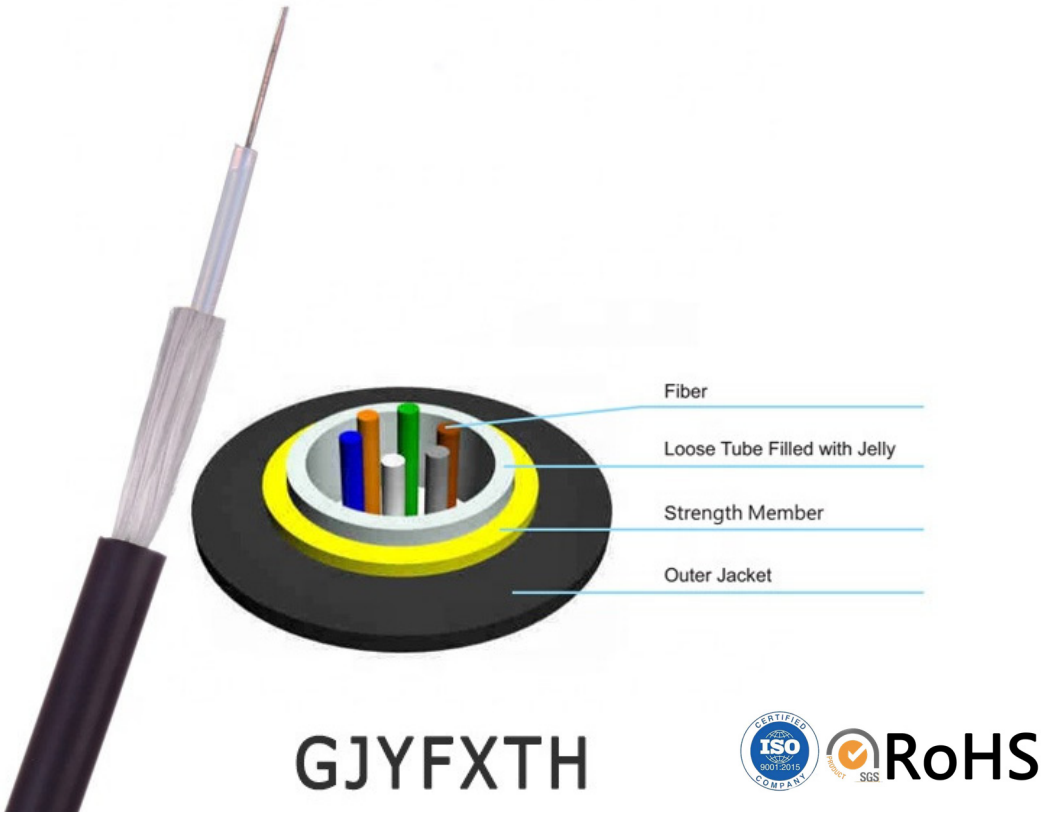
DATASHEET

Indoor&Outdoor No-armored FO Cable -(2-12cores)

Make High-speed Optical network Connections.



OMC INDUSTRY CO.LIMTED

2018|En version1.0

www.omcftth.com sales@omcftth.com 0086-755-29163551

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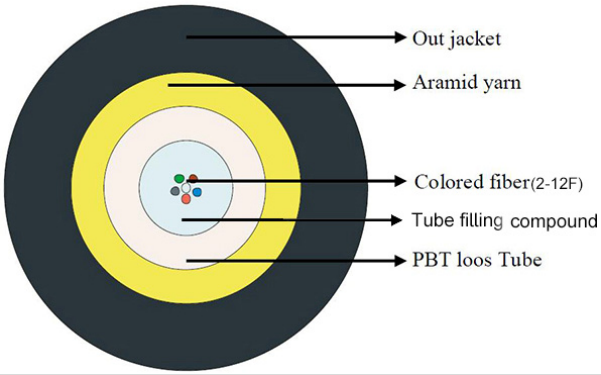
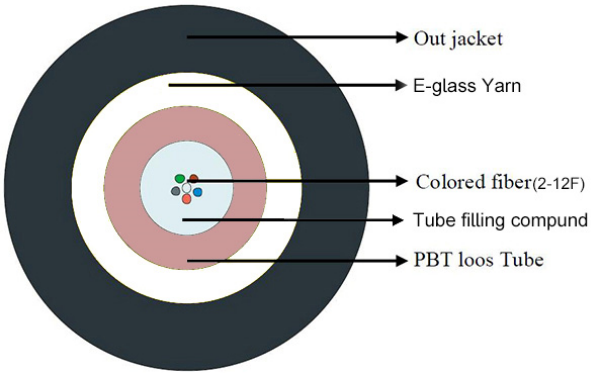
Cable structure



E-Glass Yarn

Cable Count	Outside Diameter	Weigh t	Minimum allowable Tensile Strength (N)		minimum allowable Crush Load （N/100mm)		Minimum Bending Radius (MM)		Storage temperature
	(MM)	(KG)	short term	long term	short term	long term	short term	long term	(℃)
02	6.0±0.3	45.00	600	200	1000	200	20D	10D	-20+60
04	6.0±0.3	45.00	600	200	1000	200	20D	10D	-20+60
06	6.0±0.3	45.00	600	200	1000	200	20D	10D	-20+60
08	6.0±0.3	45.00	600	200	1000	200	20D	10D	-20+60
10	6.0±0.3	45.00	600	200	1000	200	20D	10D	-20+60
12	6.0±0.3	45.00	600	200	1000	200	20D	10D	-20+60



Aramid Yarn

Cable Count	Outside Diameter	Weigh t	Minimum allowable Tensile Strength (N)		minimum allowable Crush Load （N/100mm)		Minimum Bending Radius (MM)		Storage temperature
	(MM)	(KG)	short term	long term	short term	long term	short term	long term	(℃)
02	6.0±0.3	38.00	1000	400	1000	300	20D	10D	-20+60
04	6.0±0.3	38.00	1000	400	1000	300	20D	10D	-20+60
06	6.0±0.3	38.00	1000	400	1000	300	20D	10D	-20+60
08	6.0±0.3	38.00	1000	400	1000	300	20D	10D	-20+60
10	6.0±0.3	38.00	1000	400	1000	300	20D	10D	-20+60
12	6.0±0.3	38.00	1000	400	1000	300	20D	10D	-20+60

Indoor&Outdoor No-armored FO Cable -(2-12cores)

Standard color of fiber and tube

The color code of the tubes and the individual fibers, shall be in accordance with the table as below:

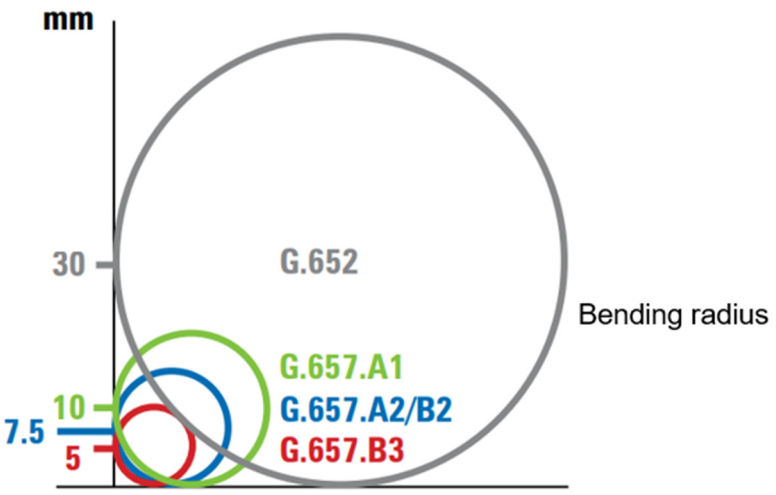
No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Slate	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

Transport/Storage/Operating Temperature:-40℃ ~ +70℃

Standard Reel Length: 2000m; Other lengths available in request.

Optical fiber technical parameters-SMF

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 induced attenuation	1550nm, 1turns,32mm diameter 100rums,60mm diameter	≤0.5 dB
Proof test	kpsi	≥100



ITU recommendation G.657 specifies two classes of single-mode bend insensitive fiber patch cables: G.657 A and G.657 B. Each category (A and B) is then divided into two sub-categories: G.657.A1, G.657.A2 and G.657.B1, G.657.B2. The minimum bend radius of G.657.A1 fibers is 10 mm, of the G.657.A2 and G.657.B1 fibers is 7.5 mm and of the G.657.B2 fibers is 5 mm. Among, ITU-T G.657.A1 and ITU-T G.657.A2 fibers are fully compliant with ITU-T G.652.D fibers.

Optical fiber technical parameters-MMF

Item	Unit	Specification	
Attenuation	dB/km	850nm≤3.5	
Bandwidth	MHz*km	50/125μm	62.5/125μm
		850nm≥200	850nm≥160
		1300nm≥200	1300nm≥200
Step	dB	≤0.1	
Irregularities over fiber length and point discontinuity	dB	≤0.1	
Difference backscatter coefficient	dB/km	50/125μm	62.5/125μm
		≤0.08	≤0.1
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 induced attenuation	850nm, 1300nm 100 turns,75mm diameter	≤0.5 dB	
Proof test	kpsi	≥100	

Technical Data-Transmission

Fiber type	Attenuation				OFL bandwidth	Effective modal band-width	10 Gigabit Ethernet SX	Min bend radius
Conditions	1310/1550nm		850/1300nm		850/1300nm	850nm	850nm	/
	Typical	Maximum	Typical	Maximum				
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	---	---	---	---	---	16
G657A1	0.36/0.22	0.5/0.4	---	---	---	---	---	10
G657A2	0.36/0.22	0.5/0.4	---	---	---	---	---	7.5
50/125	---	---	3.0/1.0	3.5/1.5	≥500/500	---	---	30
62.5/125	---	---	3.0/1.0	3.5/1.5	≥200/500	---	---	30
OM3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	30
OM4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	30
BIF-OM3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	7.5
BIF-OM4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	7.5

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Technical Data-Transmission

Fiber type	Attenuation				OFL bandwidth	Effective modal bandwidth	10 Gigabit Ethernet SX	Min bend radius
Conditions	1310/1550nm		850/1300nm		850/1300nm	850nm	850nm	/
	Typical	Maximum	Typical	Maximum				
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	---	---	---	---	---	16
G657A1	0.36/0.22	0.5/0.4	---	---	---	---	---	10
G657A2	0.36/0.22	0.5/0.4	---	---	---	---	---	7.5
50/125	---	---	3.0/1.0	3.5/1.5	≥500/500	---	---	30
62.5/125	---	---	3.0/1.0	3.5/1.5	≥200/500	---	---	30
OM3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	30
OM4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	30
BIF-OM3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	7.5
BIF-OM4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	7.5