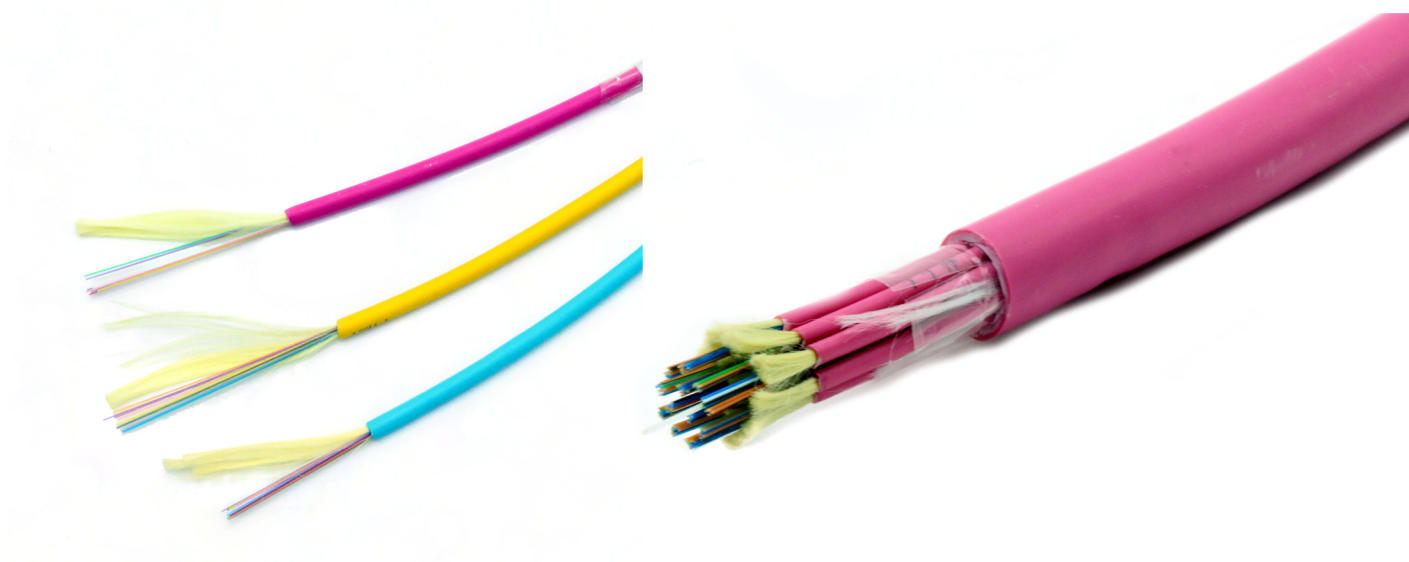


DATASHEET

12-144F Micro-fiber cable

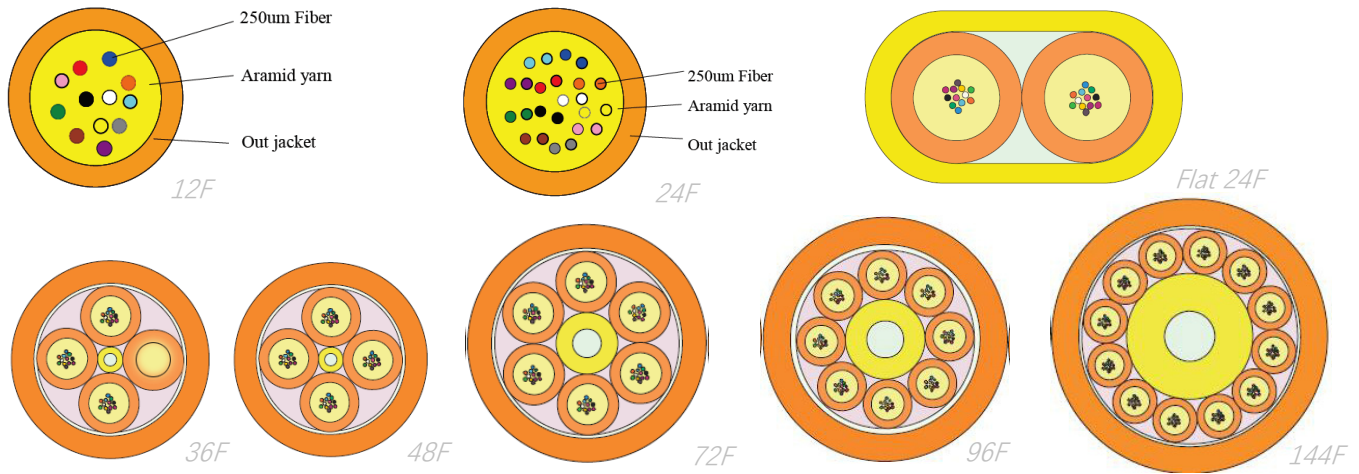
Small Size cable for HD cabling solution



OMC INDUSTRY CO.LIMITED

2018|En version1.0

Cable structure



Fiber number	12	24	Flat 24	36 & 48 & 72	72	96	144
Subunit diameter (mm)	/	/	2.9±0.1	2.9±0.1	2.9±0.1	2.9±0.1	2.9±0.1
Cable diameter(mm)	2.9±0.1	2.9±0.1	(4.2±0.3)×(7.6±0.4)	9.0±0.3	11.2±0.3	13.5±0.3	17.5±0.3
Appro Cable weight (kg/km)	(LSZH6.3) /(PVC 4.8)	(LSZH9.0) /(PVC 7.5)	(LSZH 52) /(PVC 44)	(LSZH 93) /(PVC 86)	(LSZH 106) /(PVC 96)	(LSZH 146) /(PVC 135)	(LSZH 260) /(PVC 224)
Temperature rating Operation&Storage	-20°C ~ +60°C						
Max. loading (IEC794-1) Installation/Operation	100N/30N	100N/30N	200N/80N	1000N/300N			

Features:

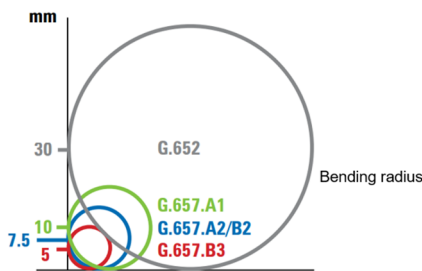
- Non-metallic construction
- Small out diameter
- Lightweight
- Easy to strip
- Low attenuation
- Physically soft
- Tensile strength and long term signal transmission stability enhanced by aramid yarn component
- Convenient for installation, operation, and maintenance

Application:

- Data center cabling
- Cabling in optical communication equipment room for connecting distribution frames
- For assembling into pigtails, movable connectors and patch cords

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 100turns,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 bandwidth	10 Gigabit Ethernet SX	Min bend radius
	1310/1550nm		850/1300nm					
Conditions	Typical	Maximum	Typical	Maximum	850/1300nm	850nm	850nm	/
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

Cable sheath marking

Printing at each 1M interval on the cable sheath
 The standard printing contents are as below,
 alternative contents available on request

- Meter mark**
- Cable model**
- Fiber count**
- Company/Brand name**
- Manufacture month and year**

Labelling of Reel

Qualification certificate glued on side of reel with the following content Alternative labelling content available on request

- Product specs (name)**
- Order No.**
- Part No.**
- Inspection No.**
- Length**
- Inspection result**
- Inspection date**
- Net weight**
- Gross weight**
- Gross weight Volume**

Package

OMC offers standardized packaging of cable, and we can ship it as soon as possible for adequate inventory. We pack the cable with roll, then put it into carton. The package provide good protection for cable. Usually we only attach test report on the out package of the cable, but we could also mark as your requirements.

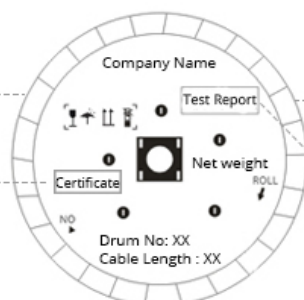
Package with Roll



Fumigation Certificate

Warm Tips:

- Cable in stock, ship same day.
- 2KM/roll for satandard package.
- Other length is also available without MOQ.



Test Report

Package with Carton

