

## Outdoor Multitube Non-metallic Optical Fiber Cable

### Drawing



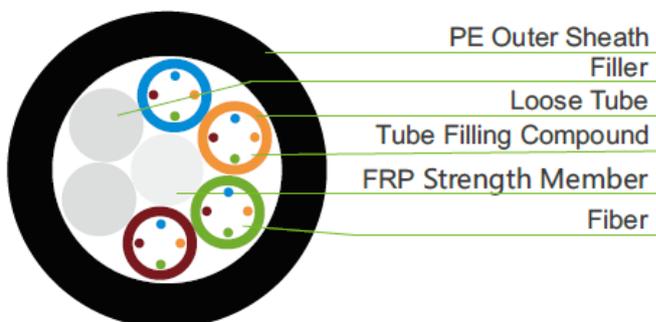
### Description

The fibers, 250um, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with filling compound. A fiber reinforced plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular core. After the cable core is filled with filling compound to protect it from water in gross, the cable is completed with a PE sheath.

### Features & Benefits

- SM or MM optical fiber performance exceed the standard
- Excellent mechanical and temperature performance
- Water-blocking compound/material filled both in and out of the loose tube
- Excellent ultraviolet prevention with PE sheath
- All dielectric structure to prevent it from electromagnetic influence

### Technical Drawing



### Compliance & Standards

- ISO/IEC 11801
- ITU-T G.651/G.652
- IEC 60793-1
- IEC 60793-2
- IEC 60794-1
- IEC 60794-3

### Applications

- Duct/Aerial (not self-supporting)



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### Product Specifications

Fiber Type	G.652D/OM1/OM2/OM3/OM4	
Fiber Core	2-144	
Loose Tube	Material	PBT
	Max. Fiber per Tube	6/8/12
Central Strength Member	≤72 core	FRP
	>72 core	FRP + PE
Sheath	Material	PE

### Optical Performance

Fiber Type		G.652D	OM2/OM3/OM4
Attenuation(+20°C)	@ 850nm	/	≤3.0 dB/km
	@1300nm	/	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	/
	@1550nm	≤0.22 dB/km	/
Cable Cut-off Wave Length (ACC)		≤1260nm	/



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### Technical Parameters

Fiber Amount Core	Maximum Core per Unit	Structure	Cable Weight kg/km	Outer Diameter (mm)	Tensile Strength Long/Short Term N	Crush Resistance Long/Short Term N/100mm	Bending Radius Static/ Dynamic mm
2--36	6	1+6	81	9.7±0.2	600/1500	300/1000	10D/20D
38--72	12	1+6	82	9.7±0.2			
74--84	12	1+7	89	10.1±0.2			
86--96	12	1+8	103	10.8±0.2			
98--108	12	1+9	114	11.4±0.2			
110--120	12	1+10	126	12.0±0.2			
122--132	12	1+11	138	12.6±0.2			
134--144	12	1+10	153	13.3±0.2			

Operating Temperature: -40°C~+70°C.

Storage Temperature: -30°C~+60°C

### Ordering Information

Part No.	Product Name	Description
FCOUSFJPE-xy	Outdoor Multitube Non-metallic Optical Fiber Cable	FRP, PE Sheath,y Fiber, x Cores

x=Fiber Number (2=2 cores, 4=4 cores....., 144=144 cores)

y=Fiber Type (S2=G.652D, M1=OM1, M2=OM2, M3=OM3, M4=OM4)