



## Outdoor Multitube Optical Fiber Cable, Steel CSM Aluminum & Steel Double-armored, Double Sheaths

### Drawing



### Description

The fibers, 250um, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. Steel Wire locates in the center of core as a strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular core. Use aluminum tape & steel tape to be the double armors to ensure the physical performance.

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
- PSP& ALP improves the moisture penetration resistance performance
- Water-blocking compound/material filled both in and out of the loose tube
- Excellent ultraviolet prevention with PE sheath
- Double-armored and double-sheath design for harsh environment

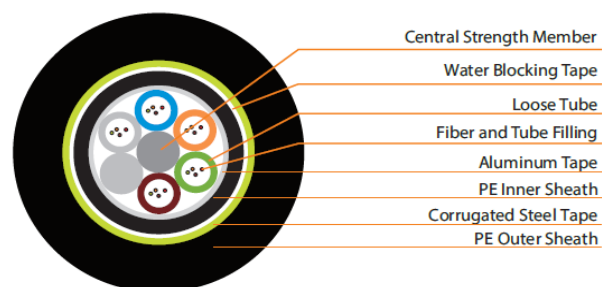
### Compliance & Standards

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

### Applications

- Duct / Aerial (Not Self-supporting)
- Direct Buried

### Technical Drawing





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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	Steel
	>72 core	Steel + PE
1# Armor	Aluminum Tape (APL)	
Inner Sheath	Material	PE
	Color	Black
2# Armor	Steel Tape (PSP)	
Outer Sheath	Material	PE
	Color	Black

### 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 ( λ cc)		≤1260nm	/



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### Mechanical Performance

Fiber Amount Core	Max. Core per Tube	Structure	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/Short Term N	Crush Resistance Long/Short Term N/100mm	Bending Radius Static/Dynamic mm
2-36	6	1+6	12.3±0.2	151	1000/3000	1000/3000	12.5D/25D
38-60	12	1+5	13.1±0.2	170	1000/3000	1000/3000	12.5D/25D
62-72	12	1+6	13.4±0.2	186	1000/3000	1000/3000	12.5D/25D
74-84	12	1+7	14.0±0.2	188	1000/3000	1000/3000	12.5D/25D
86-96	12	1+8	14.6±0.2	207	1000/3000	1000/3000	12.5D/25D
98-108	12	1+9	15.3±0.2	226	1000/3000	1000/3000	12.5D/25D
110-120	12	1+10	15.9±0.2	242	1000/3000	1000/3000	12.5D/25D
122-132	12	1+11	16.5±0.2	258	1000/3000	1000/3000	12.5D/25D
134-133	12	1+12	17.2±0.2	277	1000/3000	1000/3000	12.5D/25D

Storage/Operating Temperature: -40°C ~ + 70°C.

### Ordering Information

Part No.	Product Name	Description
FCOUSMJAP1-xy	Outdoor Multitube Optical Fiber Cable	Steel CSM, Jelly Filled, AL& Steel Double-armored, Double PE Sheaths, 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)