

Outdoor Multitube Single-armored Optical Fiber Cable

Drawing



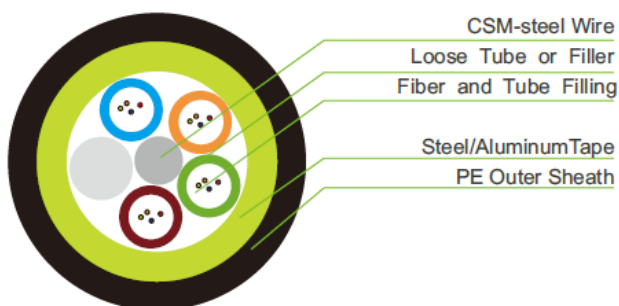
Description

The fibers, 250um, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. The PSP/AL-tape is longitudinally applied over the cable core, which is filled with the filling compound to protect it from water ingress. 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 moisture barrier
- Water-blocking compound/material filled both in and out of the loose tube
- Excellent ultraviolet prevention with PE sheath

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	Steel Wire
	>72 core	Steel Wire + PE
Armor	Steel Tape (PSP) / Aluminum Tape (APL)	
Outer Sheath	Material	PE
	Color	Black

Optical Performance

Fiber Type		G.652D	OM2/OM3/OM4
Attenuation(+20°C)	@850nm (MM)	/	≤3.0 dB/km
	@1300nm (MM)	/	≤1.0 dB/km
	@1310nm (SM)	≤0.36 dB/km	/
	@1550nm (SM)	≤0.22 dB/km	/
Cable Cut-off Wave Length (ACC)		≤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 N/100mm	Bending Radius Static/Dynamic mm
2~30	6	1+5	9.4±0.2	82	600/1500	300/1000	10D/20D
32~36	6	1+6	9.7±0.2	93	600/1500	300/1000	10D/20D
38~60	12	1+5	10.0±0.2	95	600/1500	300/1000	10D/20D
62~72	12	1+6	10.6±0.2	115	600/1500	300/1000	10D/20D
74~84	12	1+7	11.2±0.2	122	600/1500	300/1000	10D/20D
86~96	12	1+8	11.8±0.2	139	600/1500	300/1000	10D/20D
98~108	12	1+9	12.5±0.2	151	600/1500	300/1000	10D/20D
110~120	12	1+10	13.1±0.2	167	600/1500	300/1000	10D/20D
122~132	12	1+11	13.7±0.2	178	600/1500	300/1000	10D/20D
134~144	12	1+12	14.4±0.2	195	600/1500	300/1000	10D/20D

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

Ordering Information

Part No.	Product Name	Description
FCOUSHMJP-xy	Outdoor Multitube Optical Fiber Cable	Metal CSM, Steel-armored, PE Sheath, y Fiber, x Cores
FCOUSHMJP-xy	Outdoor Multitube Optical Fiber Cable	Steel CSM, Aluminum-armored, 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)