

Applications

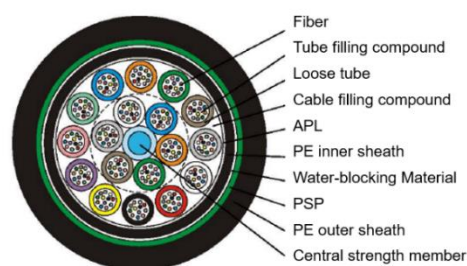
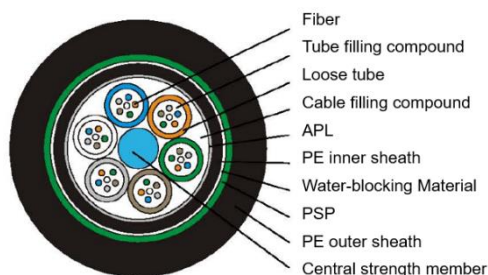
Prose outdoor optical fiber FC06 series cables are designed for fiber solutions mainly used for fiber optic connections in outdoor areas, backbone conduit or overhead connections between buildings. The structure of this fiber, 250µm are positioned in a loose tube made of a high modulus plastic. The tubes 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. Tube (and fillers) are stranded around the strength member into a compact and circular cable core. An Aluminum Polyethylene Laminate (APL) is applied around the cable core, which is filled with the filling compound to protect it from water ingress. Then the cable core is covered with a thin PE inner sheath. After the PSP is longitudinally applied over the inner sheath, the cable is completed with a PE outer sheath.

Feature/Characteristic

- Good mechanical and temperature performance;
- High strength loose tube that is hydrolysis resistant;
- Special tube filling compound ensure a critical protection of fiber;
- Crush resistance and flexibility;
- Steel wire used as the central strength member;
- Loose tube filling compound;
- APL moisture barrier;
- PSP enhancing moisture-proof;
- Water-blocking material;



Profile/Outline



Optical Parameters

Fiber Type		G.652	G.655	50/125µm	62.5/125µm
Attenuation(+20°C)	@850nm			≤3.0dB/km	≤3.3dB/km
	@1300			≤1.0dB/km	≤1.0dB/km
	@1310	≤0.36dB/km	≤0.40dB/km		
	@1550	≤0.22dB/km	≤0.23dB/km		
Bandwidth	@850			≥500MHz·km	≥200MHz·km
	@1300			≥500MHz·km	≥500MHz·km
Numerical Aperture				0.200±0.015NA	0.275±0.015NA
Cable Cut-off Wavelength λ _{cc}		≤1260nm	≤1450nm		

Mechanical Parameters

Items		Request
Tensile Strength, N	Short-term	3000
	Long-term	1000
Crush Resistance, N/100mm	Short-term	3000
	Long-term	1000
Bending Radius, mm	Static	12.5D
	Dynamic	25D
Operation temperature		-40°C to +70°C
Storage temperature		-40°C to +70°C

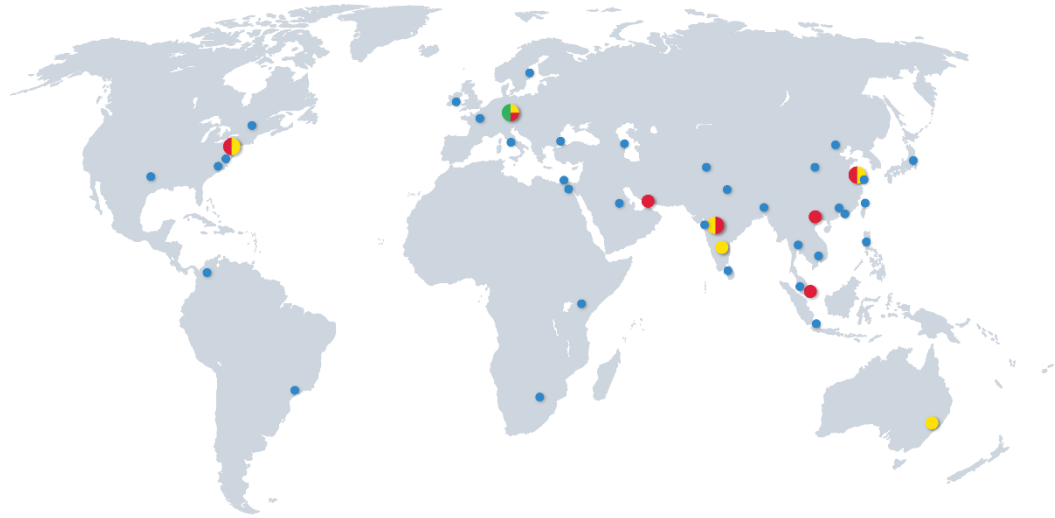
Ordering Information

Category	Cable Structure	Fiber Type	Outer Sheath Material	Fiber Count
FC: Fiber Cable	06: Outdoor, Heavy Armored, stranded, Al-PE	GD: G652D M2: OM2 M3: OM3 M4: OM4	1: OFNR 2: LSZH 60332-1 3: PE	002:2F 012:12F 024:24F 036:36F 144:144F

For Example:

Order Number	Fiber count	Description
FC06-GD3012	12	Cable, Outdoor, Heavy Armored, Stranded, Al-PE ,12F, SM G652D, PE
FC06-GD3024	24	Cable, Outdoor, Heavy Armored, Stranded, Al-PE ,24F, SM G652D, PE
FC06-M33048	48	Cable, Outdoor, Heavy Armored, Stranded, Al-PE ,48F, MM OM3, PE
FC06-M33072	72	Cable, Outdoor, Heavy Armored, Stranded, Al-PE ,72F, MM OM3, PE

GLOBAL FOOTPRINT



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