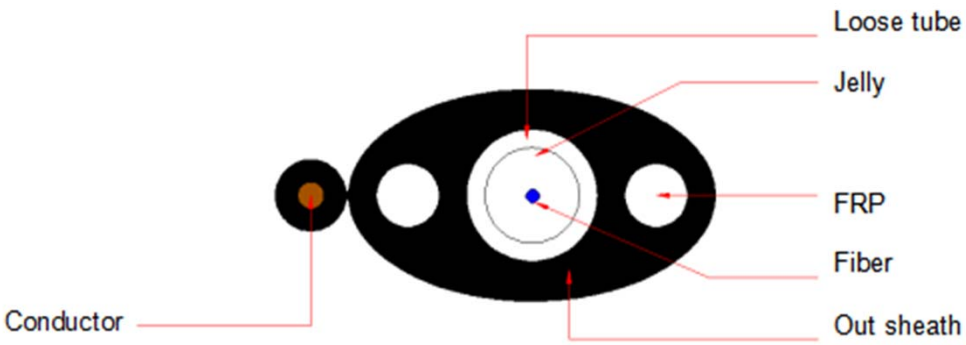
FIBER TO THE HOME Hybrid cable 4.5x9.8

1. Cable structure:



2.Cable construction details

Number of fiber	1F	
Fiber type	G657A1	
strength member	Material	ϕ1.6FRP*2
Loose tube	Material	PBT
	Color	Natural
	Diameter	Φ3.0±0.2mm
Power Wire Elements	Material	24AWG
	Diameter	0.5mm
Outer sheath	Material	PE
	Color	Black
	Diameter	（4.5x8.0-9.8）±0.3mm

3.Cable Mechanical characteristic

Min Bending Radius(mm)	Long term	15D
Min BendingRadius(mm)	Short term	30D
Tensile Strength(N)	Long term	400
	Short term	1335
Crush Load (N/100mm)	Long term	1000
Crush Load (N/100mm)	short term	2000
Operation temperature （℃）	-40+80	

Operation temperature （℃）	-40+80
Installation temperature（℃）	-40+70

4.Fiber color

1
Blue

5.Fiber characteristic

Characteristics	Conditions	Specified Values	Unit
Attenuation	1310nm	≤0.36	dB/KM
	1550nm	≤0.25	dB/KM
Attenuation vs.Wavelength Max. αdifference	1285-1330nm	≤0.03	dB/KM
	1525-1575nm	≤0.02	dB/KM
Zero dispersion wavelength		1300-1324	nm
Zero dispersion slope		≤0.092	ps/nm².km
PMD		-	
Maximum Individual Fiber		≤0.2	ps/√km
Link Design Value (M=20,Q=0.01%)		≤0.1	ps/√km
Typical value		0.04	ps/√km
Cable cutoff wavelength λ∝		≤1260	nm
Mode field diameter (MFD)	1310nm	8.8±0.4	nm
	1550nm	9.8±0.5	nm
Effective group index of refraction	1310nm	1.466	-
	1550nm	1.467	-
Point discontinuities	1310nm	≤0.05	dB
	1550nm	≤0.05	dB
Geometrical Characteristics			
Cladding diameter		124.8±0.7	um
Cladding non-circularity		≤0.7	%
Coating diameter		245±5	um
Coating-cladding concentricity error		≤12.0	um
Coating non-circularity		≤6.0	%
Core-cladding concentricity error		≤0.5	um
Curl (radius)		≥4	m