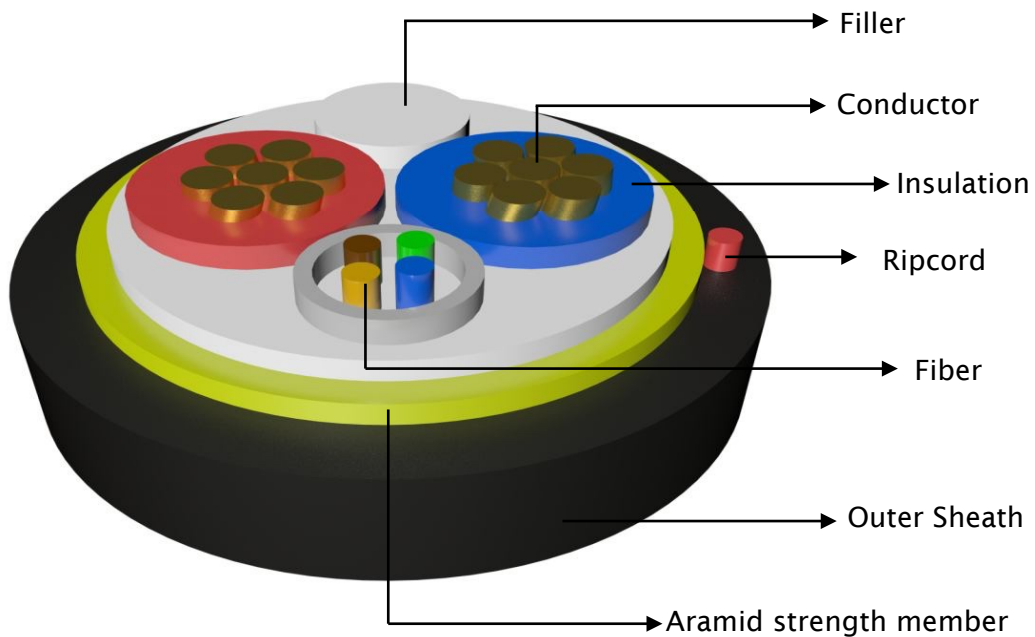




## Highlights

- A wide range of hybrid cable combinations is available to cater to specific requirements, including options involving fiber, corded wires, and customized combinations
- Outstanding crush resistance and flexibility, enhancing their ease of use.
- Improve power management by reducing the need for coordination and maintenance in power supply systems.

## Section Drawing



## Structure and Description

Construction		Requirements	
Power Unit	Conductor	AWG	12AWG
		Materials	Cu
		Conductor type	Class5
	Insulation	Color	Blue/red
		Materials	LSZH
		Average thickness	3.2±0.2mm
Fiber Cable	Fiber Type		G.657.A2
	Number of Cores		4
	Fiber Color		Blue, orange, green, brown
	Tube Materials		PBT
	Tube Color		Natural
	Filler		Fiber Jelly
	Tube Diameter		2.0±0.1mm
Cable Filler	Material	Non-Absorbent Material	
Cable Shield	Material	PET	
Strength Member	Material	Aramid Yarn	
Ripcord	Material	Polyester	
Outer Sheath	Material	LSZH	
	Color	Black	
	Sheath Diameter	9.0±0.5mm	

### FIBER CHARACTERISTICS

Fiber Type		G.657.A2
Mode Field Diameter	Wavelength	1310nm
	Range of Nominal Values	8.6µm -9.2µm
	Tolerance	±0.4 µm
Cladding Diameter	Nominal	125.0µm
	Tolerance	±0.7 µm
Core Concentricity Error		≤0.5µm
Cladding Non-Circularity		≤1%
Coating Diameter	Nominal	245µm
	Tolerance	±10µm
Coating-cladding Concentricity Error		≤12.5µm
Cut-off Wavelength		≤1260 nm
Attenuation 1310nm		≤0.38dB/km
Attenuation 1550nm		≤0.24dB/km
Points Discontinuity		0.1dB
PMD		≤0.2ps/km
Other Parameters Standard		ITU-T G.657

## ELECTRICAL CHARACTERISTICS

Conductor Resistance at 20°C		≤6.2Ω/km
Finished Product Voltage Test		2.0kV/AC 1min
Flame Retardant Property		IEC 60332-1
Tensile Strength	Short Term	300N
	Long Term	150N
Crush	Short Term	1000N/100mm
	Long Term	300N/100mm
Environment		RoHS 2.0

## APPLICATION ENVIRONMENT

Installation Temperature	-20°C to +70°C
Operating Temperature	-20°C to +70°C
Bending Radius	10 Diameter
Application	Indoor