

# TECHNICAL DATA SHEET FOR



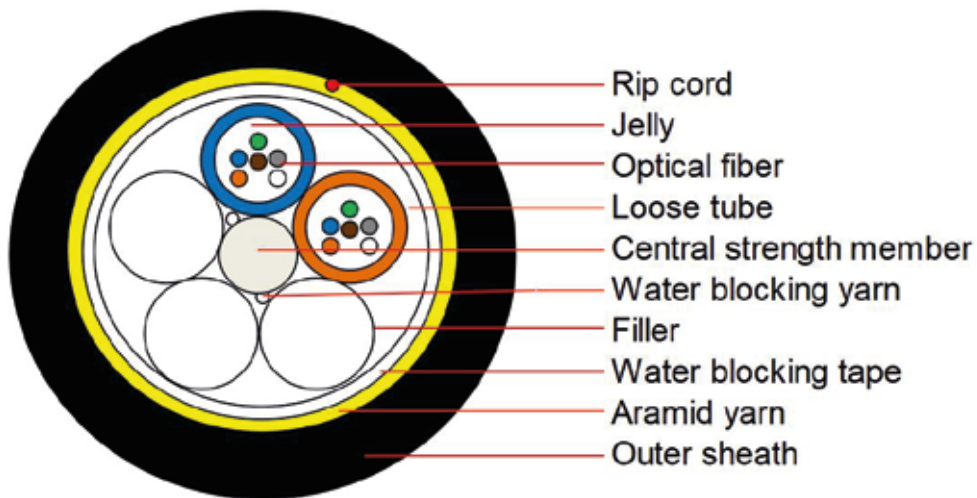
## OPTICAL FIBER CABLE ADSS-12/24/48/72

## 1 Reference

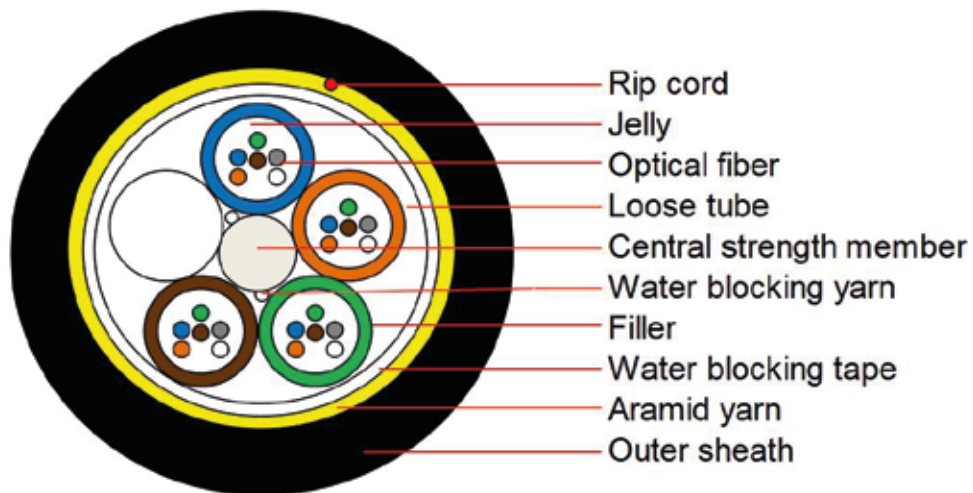
The cable offered are designed, manufactured and tested according to the standards as follows:

IEC 60794-1-1	Optical fibre cables-part 1-1: Generic specification-General
IEC 60794-1-2	Optical fibre cables-part 1-2: Generic specification-Basic optical cable test procedure
IEC 60794-3	Optical fibre cables-part 3: Sectional specification-Outdoor cables

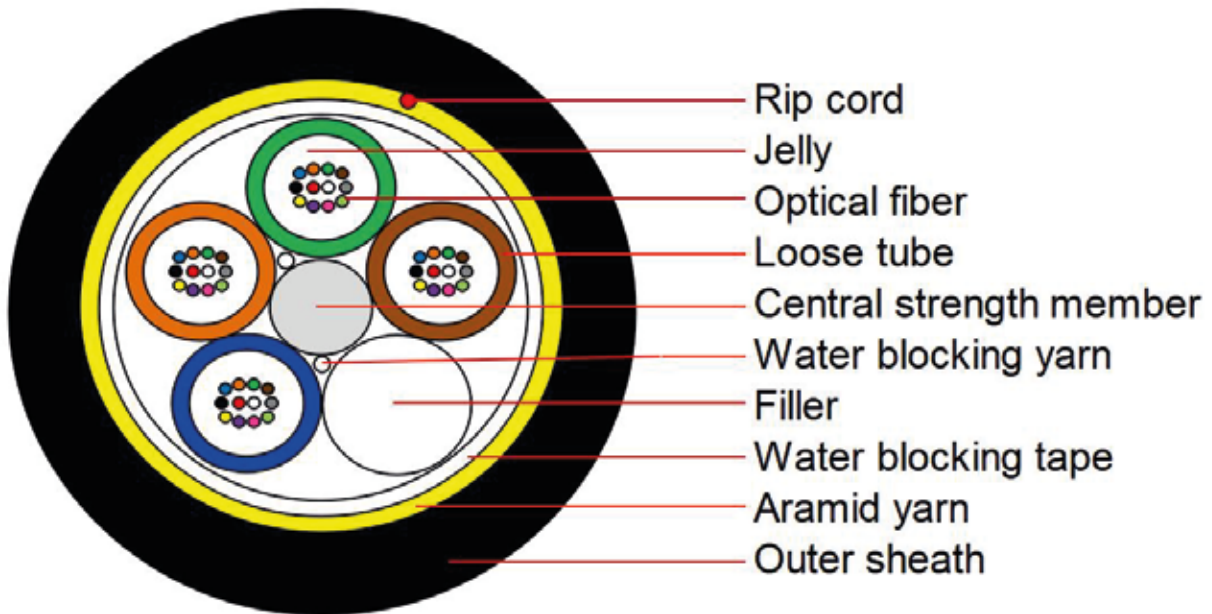
## 2. Cable Cross-section



**ADSS-12**



**ADSS-24**



**ADSS-48/72**

**3. Cable Identification**

3.1 Fiber color code

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

3.2 Loose tube (LT) & filler rod (FR) color code

Fiber count	Element no.											
	1	2	3	4	5	6	7	8	9	10	11	12
12	LT	LT	FR	FR	FR							
24	LT	LT	LT	LT	FR							
48	LT	LT	LT	LT	FR							
72	LT	LT	LT	LT	LT	LT						

“LT” mean “loose tube”

“FR” means “filler rod”



#### 4. Cable Assembly & Dimensions

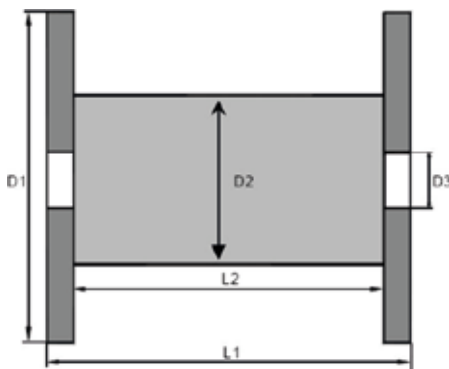
Item	Contents	Value			
		12	24	48	72
Loose tube	Number	2	4	4	6
	Outer diameter (mm)	2.0	2.0	2.1	2.1
	Thickness(mm)	0.3			
	Material	PBT			
	Water blocking	Tube filling compound			
Filler	Material	PP			
	Number	3	1	1	0
Max. Fiber counts per tube	G.652D	6	6	12	12
Central strength member	Material	FRP (Fiber Reinforced Plastic)			
	Diameter (mm)	1.5	1.5	1.7	2.3
	PE layer diameter (mm)	-	-	-	-
Water blocking	Material	Water blocking yarn & Water blocking tape			
Outer Sheath	Material	MDPE			
	Color	Black			
	Thickness (mm)	1.6±0.2			
Cable diameter(mm) Approx		9.3±0.3	9.3±0.3	9.8±0.3	10.2±0.3
Cable weight(kg/km) Approx.		70	70	87	98

#### 5. Performance of Cabled Optical Fiber&Cable

Item		Unit	Parameter
Cable Standard Weight		kg/km	70
Rated Tensile Strength		N	3600
Short Tensile load		N	1500
Long Tensile load		N	900
Min-bending radius	Short-term	mm	25D
	Long-term	mm	15D
Crush performance	Short-term	N/100mm	1000
	Long-term	N/100mm	300
Suiting Line Voltage Class		Not more than 110 kV	
Span		m	80
Suitable meteorological condition		Max wind speed: 25m/s, No icing	
Operation	When working or in store	°C	-40°C-+70°C
Temperature	When laying	°C	-10°C-+50°C
Fibre Attenuation coefficient in Cable		dB/km(1310nm)	≤0.36dB/km
		dB/km(1550nm)	≤0.22dB/km

## 6. Packing

- 6.1 Each single cable length been wound on an wooden drum.
- 6.2 Standard drum length is 3000m ±2% or Customer need
- 6.3 Covered by plastic buffer sheet.
- 6.4 Sealed by strong wooden battens.
- 6.5 At least 3m of cable inner end should be reserved for testing.



Note : The value "D" contain the seal dimension.

Cable Type	Drum Length (m)	Drum Dimensions			
		D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)
ADSS 12C	5000	900	400	740	690
ADSS 24C	5000	900	400	740	690
ADSS 48C	5000	1000	400	740	680
ADSS 72C	5000	1200	400	740	670