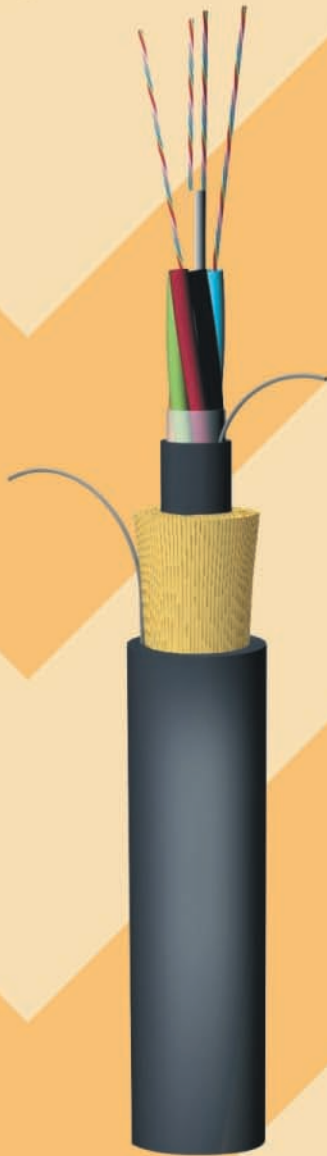


# ADSS CABLE (All Dielectric Self Supporting)

## CABLE CONSTRUCTIONS



An optical cable which can be installed on overhead power lines, gantries or poles. As the cable does not contain any metallic elements and use track resistant sheath material, it is to be installed on high voltage lines, to prevent dry-band arcing.

- **CENTRAL STRENGTH MEMBER**  
Provides both tensile and anti-buckling to the cable, it's made of GRP (glass reinforced plastic).
- **FILLED BUFFER TUBE**  
Tubes made of PBT (polybutylene therephthalate), fully water-blocked with a thixotropic compound, stranded together around central strength member.
- **FILLER**  
Where necessary, number of fillers are placed among stranded tubes. Filler made of polyethylene or polymeric material.
- **OPTICAL FIBRES**  
Available up to 12 colored fibres per tube, single mode or multi mode type.
- **WATER BLOCKING MATERIAL**  
Applied to cable core to prevent the ingress of water longitudinally, using swellable material for dry core or flooding compound for jelly filled design.
- **REINFORCEMENT**  
The cable fully reinforced with aramid yarns to provide sufficient tensile strength during installation and operation with expected environmental condition.
- **WRAPPING TAPE**  
The cable core covered with plastic or swellable tape. Tapped with aramid also available upon request for shot gun protection.
- **SHEATH**  
Polyethylene proven as a suitable material for sheathing since provides the cable with a tough, flexible, protective covering, able to withstand exposure to sun light, the atmospheric temperature and stresses during installation and service. Special anti-tracking material must be used for application on high voltage power line.
- **RIPCORD**  
It's made of nylon or aramid yarns, to provide a means for quick sheath removal.



## FEATURE / BENEFITS

- Fibre count up to 144
- Also Available in conventional Polyethylene and single outer sheath for short span applications
- Complies with IEEE P-1222

## FULL RANGE OF FIBRE TYPES

- G. 651 (Multi mode fibre)
- G. 652 (Single mode fibre)
- G. 655 (NZD fibre for DWDM application)

## TYPICAL PARAMETER\*

Number of fibres		up to 72	up to 92	up to 144
Cable diameter	mm	15.0 – 15.7	17.0 – 18.0	20.5 – 21.5
Nominal cable weight	kg/km	200	255	400
Minimum bend radius	mm	325	375	450
Maximum working tension	N	6000	10000	25000
Minimum breaking load	N	30000	60000	150000
Temperatures	Operation	°C -40 to +70		
	Installation	°C -20 to +70		
	Storage	°C -40 to +70		
Crush resistance	N/100mm	2000		
Impact resistance	N.m	5		

\*Referred to armored design. Many different construction options are available upon specific customer requirements

### Full range of protections



Water blocked

### Full range of applications



Outdoor



Aerial

### Further protections available



Flame retardant



Rodent resistant



Shotgun resistant



Track resistant (25kV)