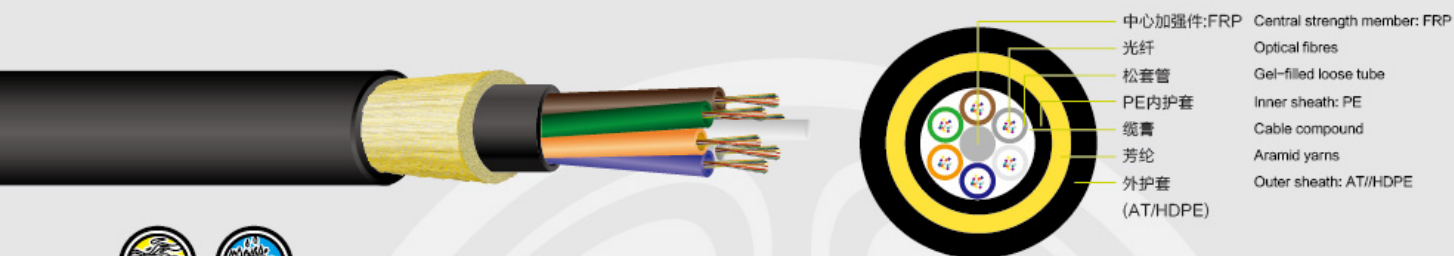


### 全介质自承式光缆 (ADSS) All Dielectric Self-Supporting Cable

将光纤套入PBT松套管中，松套管内填充防水油膏，缆芯的中心是一根非金属加强芯，缝隙填充阻水油膏，松套管（和填充绳）围绕中心加强芯绞合成紧凑和圆形缆芯，缆芯外挤制一层内护套料，护套外放置芳纶纱作为加强材料，再挤制一层PE或AT护套料。

The fibers are positioned in a loose tube made of PBT. The tubes are filled with a water-resistant filling compound. A fibre reinforce plastic locates in the center of core as a non-metallic strength member. The tube(and the fillers) are stranded around the strength member into a compact and circular core. The cable core is covered with a PE inner sheath. After the aramid yarns covered over the inner sheath, the cable is completed with a PE or AT outer sheath.



- 敷设方式 Installation  
自承式架空 Self-supporting aerial

- 产品特点 Characteristics
  - 非金属结构绝缘性能好，安装、维护和抢修可带电作业，避免停电造成的损失  
The metal free nature of the cable allows installation on a live power system with ensured safety for the installation crew
  - 光缆直径小，重量轻，减少冰雪和风对光缆的影响，减轻了杆塔等支撑物的负荷  
Due to its small outer diameter, the cable is minimally affected by ice and wind, its light weight ensures a minimum additional load of the tower construction
  - 最大跨距可达到1600m The maximum span is 1600m
  - 具有优异的机械性能和环境性能 Excellent mechanical and environment performance
  - AT护套料耐电痕性能优越  
Application of special sheath materials assures excellent resistance against electrical erosion, even in high field strength environments

- 应用范围 Applications  
适用于架空高压输电系统，也可用于强电场，雷电多发地带和需要大跨越场合的通信线路。  
Power Line, dielectric needed or large span communication line.

- 产品标准 Standards  
DL/T 788 / IEEE 1222 / IEC 60794-4-20

温度范围 Temperature Range		
存储温度 Transportation	安装温度 Installation	运行温度 In use
-40℃~+70℃	-5℃~+50℃	-40℃~+70℃

#### 2-24芯光缆结构和性能参数 ADSS 2-24 fibres

外径 Outer diameter	截面积 Cross section area	重量 Mass	最大允许使用张力 Max allowable working tension	额定抗拉强度 Rated tensile strength	允许压扁力 Crush resistance	最小弯曲半径 Minimum bend radius		弹性模量 Modulus of elasticity	热膨胀系数 Heat expansion coefficient
						动态 Dynamic	静态 Static		
mm	mm <sup>2</sup>	kg/km	kN	kN	N/10cm	mm	mm	kN/mm <sup>2</sup>	10 <sup>-5</sup> /K
11.5	104	110	2.8	7.2	2200	25D	15D	4.67	3.09
11.7	108	113	4.9	12.3	2200	25D	15D	6.78	1.96
11.9	111	118	7.0	17.5	2200	25D	15D	8.74	1.40
12.1	115	122	9.1	22.8	2200	25D	15D	10.64	1.05
12.3	119	126	11.2	28.2	2200	25D	15D	12.40	0.82
12.6	125	133	13.4	33.5	2200	25D	15D	13.90	0.68
12.8	129	137	15.8	39.6	2200	25D	15D	15.70	0.53
13.0	133	142	17.9	44.8	2200	25D	15D	17.09	0.45
13.2	137	146	19.9	49.9	2200	25D	15D	18.36	0.38
13.4	141	151	21.8	54.6	2200	25D	15D	19.42	0.33

#### 26-36芯光缆结构和性能参数 ADSS 26-36 fibres

外径 Outer diameter	截面积 Cross section area	重量 Mass	最大允许使用张力 Max allowable working tension	额定抗拉强度 Rated tensile strength	允许压扁力 Crush resistance	最小弯曲半径 Minimum bend radius		弹性模量 Modulus of elasticity	热膨胀系数 Heat expansion coefficient
						动态 Dynamic	静态 Static		
mm	mm <sup>2</sup>	kg/km	kN	kN	N/10cm	mm	mm	kN/mm <sup>2</sup>	10 <sup>-5</sup> /K
12.1	115	121	3.0	7.5	2200	25D	15D	4.70	3.02
12.3	119	126	5.3	13.4	2200	25D	15D	6.92	1.88
12.5	123	130	7.6	19.1	2200	25D	15D	8.88	1.34
12.7	127	135	9.7	24.4	2200	25D	15D	10.58	1.04
13.0	133	141	12.1	30.4	2200	25D	15D	12.27	0.82
13.2	137	146	14.2	35.5	2200	25D	15D	13.68	0.68
13.4	141	151	16.6	41.7	2200	25D	15D	15.35	0.55
13.6	145	155	18.7	46.8	2200	25D	15D	16.58	0.47
13.7	147	158	20.8	52	2200	25D	15D	17.98	0.39
13.9	152	163	22.8	57.2	2200	25D	15D	19.13	0.33

#### 38-48芯光缆结构和性能参数 ADSS 38-48 fibres

外径 Outer diameter	截面积 Cross section area	重量 Mass	最大允许使用张力 Max allowable working tension	额定抗拉强度 Rated tensile strength	允许压扁力 Crush resistance	最小弯曲半径 Minimum bend radius		弹性模量 Modulus of elasticity	热膨胀系数 Heat expansion coefficient
						动态 Dynamic	静态 Static		
mm	mm <sup>2</sup>	kg/km	kN	kN	N/10cm	mm	mm	kN/mm <sup>2</sup>	10 <sup>-5</sup> /K
12.7	127	135	3.2	8.0	2200	25D	15D	4.86	2.95
12.9	131	140	5.6	14.2	2200	25D	15D	6.97	1.89
13.1	135	144	8.0	20.2	2200	25D	15D	8.83	1.38
13.3	139	149	10.2	25.5	2200	25D	15D	10.37	1.09
13.6	145	156	13.0	32.5	2200	25D	15D	12.22	0.84
13.8	150	161	15.4	38.6	2200	25D	15D	13.82	0.68
14	154	166	17.4	43.8	2200	25D	15D	15.02	0.59
14.2	158	171	20.0	50.9	2200	25D	15D	16.75	0.47
14.4	163	176	22.3	57.2	2200	25D	15D	18.13	0.39
14.6	167	181	24.6	63.7	2200	25D	15D	19.47	0.32

备注：  
1、以上参数仅供参考 2、光缆中光纤芯数可达到288芯 3、可以根据力值或气象条件设计，也可根据客户的特殊需求进行结构设计，小于100米档距可采用单层护套 4、以上结构均可增加一层玻璃纱防鼠  
1. The above datasheets are just for reference. 2. the max. fiber count is 288. 3. Design based on the climate, span or customer's special requirement. When span<100m, single sheath design is optional. 4. If need rodent protected, optional choose of ADSS RP.

