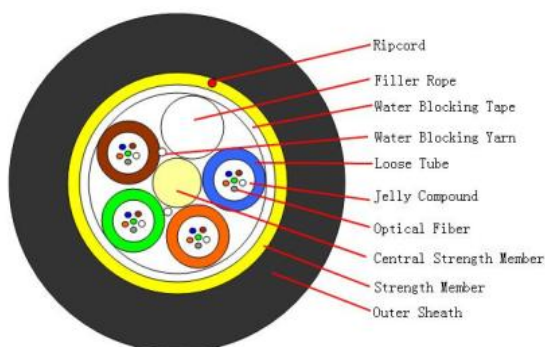


Product Specifications



Power Cable ADSS

Description

ADSS cable is loose tube stranded. The 250um bare fibers are positioned into a loose tube made of high modulus plastics. The tubes are filled with a water-resistant filling compound. The tubes and fillers are stranded around a FRP (Fiber Reinforced Plastic) as a non-metallic central strength member into a compact and circular cable core. After the cable core is filled with filling compound. It is covered with thin PE (polyethylene) inner sheath. After stranded layer of aramid yarns are applied over the inner sheath as strength member, the cable is completed with PE or AT (anti-tracking) outer sheath.

Technical data

Numbers of fibers: **4-12F;14-36F;36-60F**

Fiber type: **Single mode G.652.D/ Monomode**

Strength Member: **Aramid Yard**

Loose Tube: **2.1mm-3.0mmPBT**

Filler Rope: FRP

Additional Strength Member (Material) : Aramid yarn

Outer Sheath: PE/AT jacket

Cable Diameter($\pm 0.2\text{mm}$): 8.0mm-12.5mm

Cable Weight($\pm 10.0\text{kg/km}$): 85-150kg

Attenuation coefficient : @ 1310nm $\leq 0.35\text{dB}$; @ 1550nm $\leq 0.2\text{dB}$

Min. bending radius Without Tension: 10.0×Cable- ϕ

Min. bending radius Under Maximum Tension: 20.0×Cable- ϕ

Product Specifications



Structure Characteristic and Application

- Precise fiber excess length control ensuring the fibers free from stress when the cable is subject to the maximum design load.
- Precise control of pay-off tension and the standing lay of aramid yarn enhancing the tensile strength of the cable.
- Use excellent materials to provide an efficient and safe environment.
- Special ADSS cables can be designed on customers' request.

Installation mode

- Loose tube fiber
- Jelly filling in the tube and core
- Well-distributed stranding aramid yarn and anti-track outer sheath
- Installed on the same poles/towers of the electric power transmission line
- Also can be lashed to the ground wire or wrapped



Double sheath

Single sheath



Product Specifications

ITEMS		UNIT	F3	F6	F8	F10	F12	F16
Span		m	100	200	300	400	500	600
Outer Dia		mm	11.6	12.0	12.3	12.5	12.8	13.8
Weight	PE sheath	Kg/km	124.2	131.1	136.3	141.4	146.5	165.9
	AT Sheath		132.6	139.9	145.3	150.7	156.0	176.3
Cross Area		mm ²	105.68	112.70	117.90	123.07	128.19	150.21
Area of strength Member		mm ²	5.67	10.20	13.62	17.02	20.43	26.10
RTS		KN	8.50	15.30	20.40	25.50	30.60	39.10
MOTS		KN	3.40	6.12	8.16	10.20	12.24	15.64
EDS		KN	2.13	3.83	5.10	6.38	7.65	9.78
Ultimate Exceptional Stress		KN	5.10	9.18	12.24	15.30	18.36	23.46
Modulus		KN/mm ²	8.44	12.52	15.27	17.79	20.11	21.71
Thermal Expansion Coefficient		10-6/°C	9.32	5.28	3.78	2.80	2.12	1.42
Crush Strength	Operation	N/10cm	1000	1000	1000	1000	1000	1000
	Installaion	N/10cm	2200	2200	2200	2200	2200	2200
Safety Factor			2.5	2.5	2.5	2.5	2.5	2.5
Min Bending Radius	Operation	mm	174	180	185	188	192	207
	Installaion	mm	290	300	308	313	320	345
Temperature	Installaion	°C	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60
	Transport	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
	Operation	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Sag(5mm Lce Load,Average 20°C)	PE	%	0.72	0.84	1.06	1.28	1.47	1.57
	AT		0.76	0.90	1.12	1.35	1.54	1.63

Product Specifications



ITEMS		UNIT	F18	F21	F24	F24	F27	F31
Span		m	700	800	900	1000	1100	1200
Outer Dia		mm	14.2	14.5	14.8	15.1	15.3	15.5
Weight	PE sheath	Kg/km	172.6	179.2	185.8	192.3	197.3	202.1
	AT Sheath		183.2	190.1	197.0	203.8	208.9	214.0
Cross Area		mm ²	157.40	164.55	171.65	178.07	183.96	189.20
Area of strength Member		mm ²	30.64	35.18	39.72	44.26	47.67	51.07
RTS		KN	45.90	52.70	59.50	66.30	71.40	76.50
MOTS		KN	18.36	21.08	23.08	26.52	28.56	30.60
EDS		KN	11.48	13.18	14.88	16.58	17.85	19.13
Ultimate Exceptional Stress		KN	27.54	31.62	35.70	39.78	42.84	45.90
Modulus		KN/mm ²	24.02	26.13	28.07	29.86	31.12	32.21
Thermal Expansion Coefficient		10-6/°C	0.99	0.67	0.41	0.20	0.07	-0.05
Crush Strength	Operation	N/10cm	1000	1000	1000	1000	1000	1000
	Installaion	N/10cm	2200	2200	2200	2200	2200	2200
Safety Factor			2.5	2.5	2.5	2.5	2.5	2.5
Min Bending Radius	Operation	mm	213	218	222	227	230	233
	Installaion	mm	355	363	370	378	283	388
Temperature	Installaion	°C	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60
	Transport	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
	Operation	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Sag(5mm Lce Load,Average 20°C)	PE	%	1.63	1.71	1.78	1.87	2.03	2.18
	AT		1.70	1.78	1.85	1.94	2.10	2.2