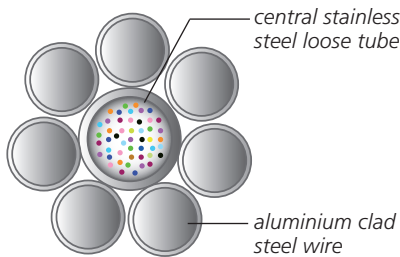


## Metallic Aerial Self-Supporting Cable

Metallic Aerial Self-Supporting (MASS) Cable is an alternative solution used for installing optical cable on medium and high voltage power lines. It is typically used when existing phase or ground wire replacement is not possible or economical. MASS cable is a compact, light-weight solution with no electrical function, designed to provide a telecommunications path without interfering with the existing power lines or infrastructure. Its small size helps minimize loading on towers and poles yet it is completely self-supporting to meet sag and tension requirements. It is typically installed in "under build" applications beneath the live phases.

### Features:

- Central Stainless Steel loose tube design
- Typical diameter between 9 – 12 mm (0.35" – 0.47")
- Fiber counts up to 72
- No voltage limit – suitable for medium & high voltage lines
- Suitable for use on lines without a ground wire
- Convenient means to add fiber where OPGW is already installed
- Deployed in regions with high lightning activity
- Can be installed without an outage
- Small cable size limits additional structural loading
- Wind loading properties similar to standard conductors
- Suitable for wooden poles with universal attachment
- Aluminum Clad, Aluminum Alloy or Galvanized Steel wire options available depending on mechanical properties required



### Specifications:

FIBERS (max)	TYPICAL SIZE	OVERALL DIAMETER		WEIGHT		RBS		STAINLESS STEEL TUBE ID / OD		WIRE DIAMETER	
		in	mm	lbs/ft	kg/m	lbs	Kg	in	mm	in	mm
24	ACS 28	0.30	7.5	1.50	0.207	7,958	3,610	0.10 / 0.11	2.6 / 3.0	0.09	2.25
24	ACS 42	0.35	9.0	2.19	0.303	12,140	5,506	0.10 / 0.11	2.6 / 3.0	0.11	3.0
30	ACS 34	0.33	8.3	1.83	0.253	9,824	4,456	0.11 / 0.13	2.9 / 3.3	0.09	2.5
30	ACS 50	0.39	9.8	2.57	0.355	14,253	6,465	0.11 / 0.13	2.85 / 3.25	0.13	3.25
36	ACS 37	0.34	8.6	1.99	0.275	10,633	4,823	0.11 / 0.13	2.9 / 3.4	0.10	2.6
36	ACS 58	0.41	10.5	2.99	0.414	15,647	7,097	0.11 / 0.14	3.0 / 3.5	0.14	3.5
48	ACS 40	0.35	9.0	2.15	0.298	11,465	5,201	0.12 / 0.14	3.1 / 3.6	0.10	2.7
48	ACS 61	0.43	10.8	3.17	0.438	16,568	7,515	0.12 / 0.14	3.1 / 3.6	0.14	3.6
60	ACS 45	0.37	9.5	2.39	0.331	12,769	5,792	0.13 / 0.15	3.3 / 3.8	0.11	2.85
60	ACS 66	0.44	11.3	3.43	0.475	17,692	8,025	0.13 / 0.15	3.3 / 3.8	0.14	3.75
72	ACS 49	0.39	10.0	2.67	0.369	14,163	6,424	0.13 / 0.15	3.4 / 4.0	0.11	3.0
72	ACS 75	0.47	12.0	3.92	0.542	19,491	8,841	0.13 / 0.15	3.4 / 4.0	0.16	4.0

ACS - Aluminum Clad Steel wire.

Wire is available in ACS and Aluminum Alloy. Both are available in a variety of grades, please ask for details.

MASS cables are designed to customer specification.

**NOTE:** The designs above are only a sampling of the options available from AFL. Contact customer service for a cable designed to your exact specifications.