



1 2 3 4
69 kV AERIAL CABLE
477 KCM AAC (242mm²) 75° C GRAY

CONSTRUCTION:

1	477 KCM (242mm ²) 19 Strand Compact Round AAC All-Aluminum 1350-H19 Conductor
2	0.020" (0.508 mm) Black Semiconducting Thermoplastic Polyethylene
3	0.250" (6.350 mm) Natural Low Density Thermoplastic Polyethylene (HMWPE)
4	0.250" (6.350 mm) Gray Track and UV Resistant High Density Thermoplastic Polyethylene

DIAMETERS:

1	0.722" (18.339 mm)	Nom.
2	0.762" (19.355 mm)	Nom.
3	1.262" (32.055 mm)	Nom.
4	1.762" +.020"/-.010"	(44.755 mm + 0.5 mm / -0.25 mm)

CABLE DATA:

1	Cable Weight:	1293 lb/ 1000 ft	(1924 kg/km)
2	Conductor Weight:	448 lb/ 1000 ft	(667 kg/km)
3	Conductor Operating Temperature:	75° C	
4	D.C. Resistance @ 20°C:	0.036 ohms/1000 ft.	(0.1181 ohms/km)
5	Resistance Temperature Coefficient:	0.00404/° C (Aluminum 1350-H19)	
6	Conductor Breaking Strength:	8360 lbs (3792 kg)	(38 kN)
7	Normal Ampacity:	536 Amps	*
8	Emergency Ampacity:	661 Amps	**

*75°C Conductor, 25°C Ambient, 2 ft/sec. (0.6096 m/s) Wind, Sun

**100°C Conductor, 25°C Ambient, 2 ft/sec. Wind, Sun