



DESCRIPTION

- 1/2" Air Dielectric Cable (SDY-50-12)
- Corrugated Copper
- Low Attenuation
- Low VSWR
- High Power Rating

ELECTRICAL DATA

IMPEDANCE	50 Ω
VELOCITY OF PROPAGATION	89%
MAXIMUM FREQUENCY	6 GHz
PEAK POWER RATING	40 kW
DC BREAKDOWN VOLTAGE	1.9 kV
DC RESISTANCE	
Inner conductor	1.60 Ω /km
Outer conductor	1.85 Ω /km
CAPACITANCE	75 pF/m
VSWR	
AM 550 kHz - 1600 kHz	≤ 1.06
FM 87 MHz - 108 MHz	≤ 1.08
DAB 170 MHz - 240 MHz	≤ 1.10
UHF 470 MHz - 870 MHz	≤ 1.12

Contact us for premium value in your specific frequency band.

MECHANICAL DATA

INNER CONDUCTOR	Copper-Clad Aluminum Wire	4.8 mm
DIELECTRIC	Extruded Polyethylene	11.8 mm
OUTER CONDUCTOR	Corrugated copper tube	13.8 mm
OUTER JACKET	PE	15.9 mm
WEIGHT		260 kg/km
MIN. BENDING RADIUS (single)		80 mm
MIN. BENDING RADIUS (multiple)		127 mm
NUMBER OF BENDS (minimum)		15
OPERATING TEMPERATURE		-45°C+85°C
INSTALLATION TEMPERATURE		-40°C+60°C

ATTENUATION AND AVERAGE POWER

FREQUENCY (MHz)	ATTENUATION (dB/100 m)	AVERAGE POWER (kW)
2	0,31	25,2
10	0,71	11,2
30	1,24	6,4
88	2,15	3,68
100	2,30	3,44
108	2,39	3,31
150	2,84	2,79
200	3,30	2,39
300	4,10	1,93
400	4,78	1,65
500	5,39	1,47
600	5,69	1,33
700	6,48	1,22
800	6,98	1,13
960	7,72	1,02
1000	7,90	1,00

Attenuation at 20°C (68°F) cable temperature, maximum value shall be 105% of the nominal attenuation value.

Average power rating at 40°C (104°F) ambient temperature.

Cable manufactured by ASCEND



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Specification are subject to change without notice

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