



DESCRIPTION

- 1 5/8" Air Dielectric Cable (SDY-50-40)
- Standard Q/12JD 6350-2020
- Corrugated Copper
- Low Attenuation
- Low VSWR
- High Power Rating

ELECTRICAL DATA

IMPEDANCE		50±0.5 Ω
VELOCITY OF PROPAGATION		95%
MAXIMUM FREQUENCY		3 GHz
PEAK POWER RATING		270 kW
DC BREAKDOWN VOLTAGE		5.2 kV
DC RESISTANCE	Inner conductor	0.75 Ω/km
	Outer conductor	0.35 Ω/km
CAPACITANCE		71 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	≤1.10

Contact us for premium value in your specific frequency band.

ATTENUATION AND AVERAGE POWER

FREQUENCY (MHz)	ATTENUATION (dB/100 m)	AVERAGE POWER (kW)
22	0,09	130
88	0,58	20,9
100	0,62	19,5
108	0,64	18,9
174	0,82	14,8
200	0,88	13,8
450	1,33	9,2
500	1,40	8,7
600	1,54	7,9
700	1,67	7,4
800	1,79	6,9

MECHANICAL DATA

INNER CONDUCTOR	Corrugated copper tube	18.5 mm
DIELECTRIC	PTFE spacer	39.7 mm
OUTER CONDUCTOR	Corrugated copper tube	46.5 mm
OUTER JACKET	PE	51 mm
WEIGHT		1545 kg/km
MIN. BENDING RADIUS (single)		180 mm
MIN. BENDING RADIUS (multiple)		550 mm
NUMBER OF BENDS (minimum)		15
OPERATING TEMPERATURE		-45°C+85°C
INSTALLATION TEMPERATURE		-40°C+60°C

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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