



DESCRIPTION

- 3 1/8" Air Dielectric Cable (SDY-50-80)
- Standard Q/12JD 6350-2020
- Corrugated Copper
- Low Attenuation
- Low VSWR
- High Power Rating

ELECTRICAL DATA

IMPEDANCE		50±2 Ω
VELOCITY OF PROPAGATION		96%
MAXIMUM FREQUENCY		1.55 GHz
PEAK POWER RATING		940kW
DC BREAKDOWN VOLTAGE		9.7 kV
DC RESISTANCE	Inner conductor	0.40 Ω/km
	Outer conductor	0.15 Ω/km
CAPACITANCE		70 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.

MECHANICAL DATA

INNER CONDUCTOR	Corrugated copper tube	34.7 mm
DIELECTRIC	PE strip	75.2 mm
OUTER CONDUCTOR	Corrugated copper tube	85.4 mm
OUTER JACKET	PE	91.0 mm
WEIGHT		3538 kg/km
MIN. BENDING RADIUS (single)		380 mm
MIN. BENDING RADIUS (multiple)		1100 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	0,05	300
88	0,34	58,3
108	0,38	52,5
174	0,48	41,1
200	0,52	38,3
450	0,81	25,4
500	0,86	24,1
600	0,95	22,0
700	1,03	20,4
800	1,11	19,1

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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