



DESCRIPTION

- 1 5/8" foam cable
- Standard cable HHTAY-50-42
- Fire retardant cable HHTAYZ-50-42
- Corrugated Copper
- Low Attenuation
- Low VSWR

ELECTRICAL DATA

IMPEDANCE	50±1 Ω
CUTOFF FREQUENCY	3.0 GHz
VELOCITY OF PROPAGATION	88%
PEAK POWER RATING	310 kW
INSULATION RESISTANCE	>3000 MΩ. km
DIELECTRIC STRENGTH	15000 V
CAPACITANCE	76 pF/m
INDUCTANCE	0.19 μH/m
DC RESISTANCE INNER CONDUCTOR	1.40 Ω/km
DC RESISTANCE OUTER CONDUCTOR	0.63 Ω/km
INTERMODULATION (IM3, 2X20 W)	≤ -155 dBc
@910 MHz and 1800 MHz (static and dynamic)	
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	Helical Corrugated Cu tube	17.30±0.1 mm
DIELECTRIC	Foamed PE	nom. 41.8 mm
OUTER CONDUCTOR	Annular Corrugated Cu tube	46.5±0.3 mm
OUTER JACKET	PE	49.8±0.30 mm
	FRNC	49.8±0.30 mm
MIN. BENDING RADIUS (single)		280 mm
MIN. BENDING RADIUS (multiple)		500 mm
NUMBER OF BENDS (minimum)		15
TENSILE STRENGTH		3000 N
OPERATING TEMPERATURE	PE	-55°C+85°C
	FRNC	-40°C+85°C
INSTALLATION TEMPERATURE	PE	-40°C+65°C
	FRNC	-25°C+60°C
STORAGE TEMPERATURE	PE	-70°C+85°C
	FRNC	-40°C+85°C

ATTENUATION AND AVERAGE POWER

FREQUENCY (MHz)	ATTENUATION (dB/100 m)	AVERAGE POWER (kW)
10	0,202	53,81
20	0,288	37,71
30	0,355	30,58
80	0,594	18,30
87	0,621	17,50
100	0,669	16,25
108	0,697	15,60
150	0,831	13,08
450	1,523	7,13
500	1,617	6,72
600	1,794	6,06
700	1,961	5,54
800	2,119	5,13
824	2,156	5,04
960	2,358	4,61
1000	2,415	4,50
1800	3,442	3,16
2000	3,673	2,96
2300	4,007	2,71

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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