

DATA SHEET



RF Cable

HHTAY(YZ)-50-42(1-5/8")



Description

Standard cable	
1-5/8" PE jacket	HHTAY-50-42
Fire retardant cable	
1-5/8" Fire retardant jacket	HHTAYZ-50-42

Return Loss	87-108MHz	≤ -26dB
	470-862MHz	≤ -26dB
	1700MHz-1900MHz	≤ -24dB
	1900MHz-2200MHz	≤ -24dB

Mechanical Performance

Inner conductor	Helical Corrugated Cu tube	17.30±0.1mm
Dielectric	Foamed PE	nom. 41.8mm
Outer conductor	Annular Corrugated Cu tube	46.5±0.3mm
Outer Jacket	PE	49.8±0.30mm
	FRNC	49.8±0.30mm
Min. Bending Radius(single)		280mm
Min. Bending Radius(multiple)		500mm
Number of bends(minimum)		15
Tensile strength		3000N
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/100m)	Average Power (kw)
87	0.621	17.5
108	0.692	15.7
450	1.683	7.00
500	1.782	6.76
600	1.881	6.09
700	1.970	5.57
800	2.149	5.15
824	2.257	5.06
960	2.584	4.60
1000	2.713	4.52
1800	3.663	3.08
2000	3.822	2.96
2300	4.079	2.72

Electrical Performance

Impedance	50±1Ω
Cutoff Frequency	3.0GHz
Velocity of Propagation	88%
Peak Power	310kW
Insulation resistance	>3000MΩ·km
Dielectric strength	15000V
Capacitance	76pF/m
Inductnce	0.19μH/m
DC resistance inner conductor	1.40Ω/km
DC resistance outer conductor	0.63Ω/km
Intermodulation (IM3, 2 x 20 W)	≤ -155 dBc
	@ 910MHz and 1800MHz (static & dynamic)

Standard Conditions:

Typical attenuation at sea level with 20°C, maximum value shall be 105% of the nominal attenuation value / Power rate at 40°C

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Tianjin Zhonghuan Ascend Technologies Co.Ltd.
No.71 Taihua Road, Economic-technical Development Zone,
Tianjin, P.R.China
P.C.: 300457

TEL:+86-022-59886766
FAX:+86-022-25322909
E-MAIL:ascend@china-ascend.com