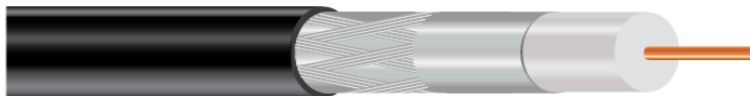


TFC/U-JIN Coaxial Cable Product Information Data Sheet

1. SCOPE

This document detail is the performance criteria for 50 Ω type 400 Series coaxial cables.



Note: Figure is not equal scale

Model Type
MI No.

TWB 4001A90T-E BLACK
400Z90E00BK578

2. PHYSICAL PROPERTY

Inner Conductor	Solid Copper Clad Aluminum Wire	0.1091 in	(2.77 mm)
Dielectric	Foamed Polyethylene	0.285 in	(7.24 mm)
1st Outer Conductor	Sealed APA Tape	0.292 in	(7.42 mm)
2nd Outer Conductor	34AWG, 90% Tinned Copper Braid	0.317 in	(8.05 mm)
Jacket	Black PE	0.405 in	(10.29 mm)

3. MECHANICAL PROPERTY

Product Weight	71.8 lb/kft	(107 kg/km)
Minimum Bend Radius	1.42 in	(36.0 mm)

4. ELECTRICAL PROPERTY

Operation Frequency	30 ~ 6000 MHz			
Characteristic Impedance	50 $\pm$ 2 Ω			
Velocity of Propagation, Nom.	85 %			
Capacitance, Nom.	22.5 nF/kft	(73.8 nF/km)		
Inner Conductor Resistance @ 20 °C	1.39 Ω /kft	(4.57 Ω /km)		
Outer Conductor Resistance @ 20 °C	1.65 Ω /kft	(5.40 Ω /km)		
Attenuation @ 20 °C	Frequency	dB/100ft	dB/100m	Avg. Power Rating , Kw
	30 MHz	0.70	2.3	3.30
	50 MHz	0.90	2.95	2.60
	150 MHz	1.50	4.92	1.50
	220 MHz	1.80	5.91	1.20
	450 MHz	2.70	8.86	0.83
	900 MHz	3.90	12.80	0.58
	1500 MHz	5.10	16.73	0.44
	1800 MHz	5.66	18.57	0.40
	2000 MHz	6.00	19.69	0.37
	2400 MHz	6.62	21.72	0.34
	2500 MHz	6.80	22.31	0.33
	3000 MHz	7.48	24.54	0.30
	3500 MHz	8.15	26.74	0.27
	4000 MHz	8.77	28.77	0.25
	4500 MHz	9.37	30.74	0.24
	5000 MHz	9.95	32.64	0.22
	5250 MHz	10.23	33.56	0.22
	5500 MHz	10.50	34.45	0.21
	6000 MHz	11.03	36.19	0.20

Attenuation increase with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)

Average Power Rating @ 40 °C, Ambient VSWR 1.0, Inner Conductor Temperature @ 100 °C