

TITAN accessories

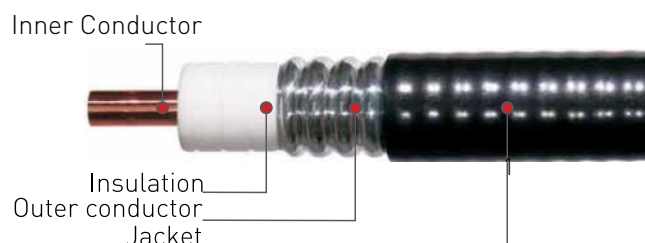
CATALOG
2012

www.titanaccs.com

ALUMINIUM RF CABLE

3/8" ALUMINIUM TUBE COAXIAL CABLE

Description		Type No.	
Standard cable		FA38-50	
Fire Retardant cable		FA38-50FR	
Construction			
Inner Conductor	Material	Copper clad aluminum wire	
	Diameter, mm	3.15±0.03	
Insulation	Material	Physically foamed PE	
	Diameter, mm	8.20±0.20	
Outer conductor	Material	Ring corrugated aluminum tube	
	Diameter, mm	9.53±0.20	
Jacket	Material	PE or fire retardant PE	
	Min. thickness, mm	>0.50	
	Diameter, mm	11.20±0.20	
Mechanical properties			
Bending radius, mm		Single	50
		Repeated	95
		Moving	300
Pulling strength, N			750
Crush resistance, kg/mm			1.0
Recommended temperature, °C	PE jacket	Storage	-70~+85
		Installation	-40~+60
		Operation	-55~+85
	Fire retardant PE jacket	Storage	-30~+80
		Installation	-25~+60
		Operation	-30~+80
Electrical properties			
Impedance, Ω			50±1
Capacitance, pF/m			75
Propagation velocity, %			88
DC breakdown voltage, kV			2.5
Insulation resistance, MΩ• km			>5×10 ³
Peak power, kW			15.6
Screening attenuation, dB			>>120
Cut-off frequency, GHz			13.5

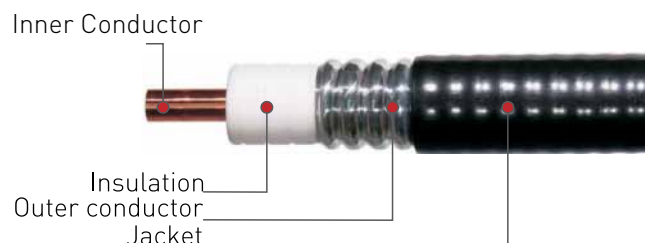


Nominal attenuation and Power rate		
Frequency, MHz	Nom. attenuation @20°C, dB/100m	Power rate, @ 20°C, kW
150	4.58	1.839
450	8.10	1.102
800	11.0	0.808
900	11.8	0.758
1800	17.3	0.517
1910	17.9	0.499
2000	18.4	0.487
2200	19.4	0.460
2700	21.8	0.415
3000	23.1	0.387
Maximum attenuation value shall be 105% of the nominal attenuation value.		
VSWR		
806~960MHz		≤1.15
1700~2200MHz		≤1.15
30~3000MHz		≤1.25
Meet RoHS		

RoHS

1/2" ALUMINIUM TUBE COAXIAL CABLE

Description		Type No.	
Standard cable		FA12-50	
Fire Retardant cable		FA12-50FR	
Construction			
Inner Conductor	Material	Copper clad aluminum wire	
	Diameter, mm	4.80±0.05	
Insulation	Material	Physically foamed PE	
	Diameter, mm	12.20 ±0.30	
Outer conductor	Material	Ring corrugated aluminum tube	
	Diameter, mm	13.80 ±0.20	
Jacket	Material	PE or fire retardant PE	
	Min. thickness, mm	>0.50	
	Diameter, mm	15.80 ±0.20	
Mechanical properties			
Bending radius, mm		Single	70
		Repeated	125
		Moving	250
Pulling strength, N			800
Crush resistance, kg/mm			1.0
Recommended temperature,°C	PE jacket	Storage	-70~+85
		Installation	-40~+60
		Operation	-55~+85
	Fire retardant PE jacket	Storage	-30~+80
		Installation	-25~+60
		Operation	-30~+80
Electrical properties			
Impedance,Ω			50±1
Capacitance, pF/m			75.6
Propagation velocity, %			88
DC breakdown voltage, kV			6.0
Insulation resistance, MΩ•km			>5×10 ³
Peak power, kW			40
Screening attenuation, dB			>>120
Cut-off frequency, GHz			8.8

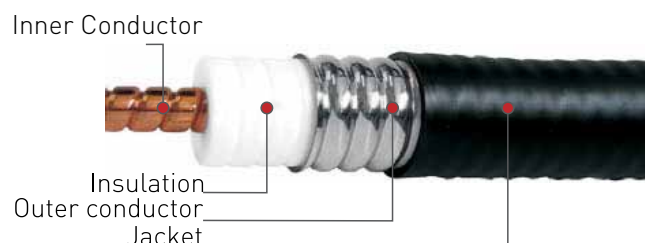


Nominal attenuation and Power rate		
Frequency, MHz	Nom. attenuation @20°C, dB/100m	Power rate, @ 20°C, kW
150	2.90	2.62
450	5.23	1.73
800	7.10	1.28
900	7.57	1.20
1800	11.10	0.83
1910	11.47	0.81
2000	11.77	0.79
2200	12.32	0.75
2700	13.89	0.69
3000	14.74	0.63
• Maximum attenuation value shall be 105% of the nominal attenuation value.		
VSWR		
806~960MHz		≤1.15
1700~2200MHz		≤1.15
30~3000MHz		≤1.25
Meet RoHS		

RoHS

7/8" SUPERFLEXIBLE ALUMINIUM TUBE COAXIAL CABLE

Description		Type No.	
Standard cable		SFA78-50	
Fire Retardant cable		SFA78-50FR	
Construction			
Inner Conductor	Material	Helically corrugated copper	
	Diameter, mm	9.50±0.10	
Insulation	Material	Physically foamed PE	
	Diameter, mm	22.40 ±0.50	
Outer conductor	Material	Ring corrugated aluminum tube	
	Diameter, mm	25.50 ±0.40	
Jacket	Material	PE or fire retardant PE	
	Min. thickness, mm	>0.50	
	Diameter, mm	27.80 ±0.30	
Mechanical properties			
Bending radius, mm		Single	90
		Repeated	125
		Moving	--
Pulling strength, N			1020
Crush resistance, kg/mm			1.40
Recommended temperature,°C	PE jacket	Storage	-70~+85
		Installation	-40~+60
		Operation	-55~+85
	Fire retardant PE jacket	Storage	-30~+80
		Installation	-25~+60
		Operation	-30~+80
Electrical properties			
Impedance,Ω			50±1
Capacitance, pF/m			73.5
Propagation velocity, %			83
DC breakdown voltage, kV			6.0
Insulation resistance, MΩ• km			>5×10 ³
Peak power, kW			91
Screening attenuation, dB			>>120
Cut-off frequency, GHz			5.0

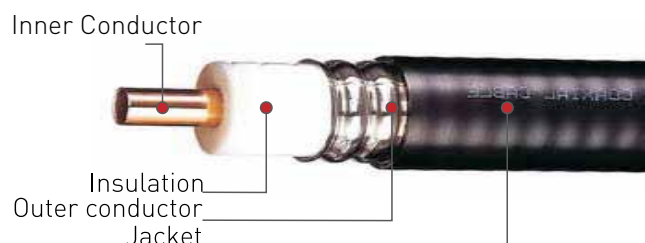


Nominal attenuation and Power rate		
Frequency, MHz	Nom. attenuation @20°C, dB/100m	Power rate, @ 20°C, kW
150	1.73	4.77
450	3.08	2.71
800	4.22	1.96
900	4.49	1.87
1800	6.64	1.26
1910	6.86	1.23
2000	7.05	1.21
2200	7.48	1.17
2700	8.41	1.03
3000	8.93	0.93
Maximum attenuation value shall be 105% of the nominal attenuation value.		
VSWR		
806~960MHz		≤1.15
1700~2200MHz		≤1.15
30~3000MHz		≤1.25
Meet RoHS		

RoHS

7/8" ALUMINIUM TUBE COAXIAL CABLE

Description		Type No.	
Standard cable		FA78-50	
Fire Retardant cable		FA78-50FR	
Construction			
Inner Conductor	Material	Smooth copper tube	
	Diameter, mm	9.40±0.10	
Insulation	Material	Physically foamed PE	
	Diameter, mm	22.40 ±0.40	
Outer conductor	Material	Ring corrugated aluminum tube	
	Diameter, mm	25.60 ±0.30	
Jacket	Material	PE or fire retardant PE	
	Min. thickness, mm	>0.50	
	Diameter, mm	27.90 ±0.30	
Mechanical properties			
Bending radius, mm		Single	127
		Repeated	255
		Moving	550
Pulling strength, N			1470
Crush resistance, kg/mm			1.40
Recommended temperature,°C	PE jacket	Storage	-70~+85
		Installation	-40~+60
		Operation	-55~+85
	Fire retardant PE jacket	Storage	-30~+80
		Installation	-25~+60
		Operation	-30~+80
Electrical properties			
Impedance, Ω			50±1
Capacitance, pF/m			73.5
Propagation velocity, %			88
DC breakdown voltage, kV			6.0
Insulation resistance, MΩ• km			>5×10 ³
Peak power, kW			91
Screening attenuation, dB			>>120
Cut-off frequency, GHz			5.0



Nominal attenuation and Power rate		
Frequency, MHz	Nom. attenuation @20°C, dB/100m	Power rate, @ 20°C, kW
150	1.50	4.96
450	2.77	2.90
800	3.80	2.10
900	4.05	2.00
1800	6.00	1.35
1910	6.21	1.32
2000	6.38	1.30
2200	6.74	1.25
2700	7.61	1.08
3000	8.09	1.00
Maximum attenuation value shall be 105% of the nominal attenuation value.		
VSWR		
806~960MHz		≤1.15
1700~2200MHz		≤1.15
30~3000MHz		≤1.25
Meet RoHS		

RoHS

1 1/4" ALUMINIUM TUBE COAXIAL CABLE

Description		Type No.	
Standard cable		FA114-50	
Fire Retardant cable		FA114-50FR	
Construction			
Inner Conductor	Material	Smooth copper tube	
	Diameter, mm	13.20 ±0.10	
Insulation	Material	Physically foamed PE	
	Diameter, mm	32.80 ±0.40	
Outer conductor	Material	Ring corrugated aluminum tube	
	Diameter, mm	35.80 ±0.30	
Jacket	Material	PE or fire retardant PE	
	Min. thickness, mm	>0.50	
	Diameter, mm	39.40 ±0.30	
Mechanical properties			
Bending radius, mm		Single	200
		Repeated	380
		Moving	--
Pulling strength, N		2000	
Crush resistance, kg/mm		1.30	
Recommended temperature, °C	PE jacket	Storage	-70~+85
		Installation	-40~+60
		Operation	-55~+85
	Fire retardant PE jacket	Storage	-30~+80
		Installation	-25~+60
		Operation	-30~+80
Electrical properties			
Impedance, Ω		50±1	
Capacitance, pF/m		75	
Propagation velocity, %		88	
DC breakdown voltage, kV		9.0	
Insulation resistance, MΩ• km		>5×10 ³	
Peak power, kW		176	
Screening attenuation, dB		>>120	
Cut-off frequency, GHz		3.3	

Inner Conductor

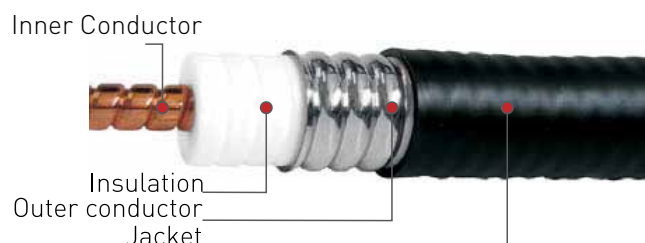
 Insulation
Outer conductor
Jacket


Nominal attenuation and Power rate		
Frequency, MHz	Nom. attenuation @20°C, dB/100m	Power rate, @ 20°C, kW
150	1.12	10.3
450	1.98	5.80
800	2.80	4.24
900	2.98	3.98
1800	4.40	2.69
1910	4.54	2.62
2000	4.66	2.55
2200	4.92	2.41
2700	5.57	2.16
3000	5.94	2.02
• Maximum attenuation value shall be 105% of the nominal attenuation value.		
VSWR		
806~960MHz		≤1.15
1700~2200MHz		≤1.15
30~3000MHz		≤1.25
Meet RoHS		

RoHS

1 5/8" ALUMINIUM TUBE COAXIAL CABLE

Description		Type No.	
Standard cable		FA158-50FR	
Fire Retardant cable		FA158-50FR	
Construction			
Inner Conductor	Material	Helically corrugated copper	
	Diameter, mm	18.30 ±0.10	
Insulation	Material	Physically foamed PE	
	Diameter, mm	43.50 ±0.60	
Outer conductor	Material	Ring corrugated aluminum tube	
	Diameter, mm	46.50 ±0.30	
Jacket	Material	PE or fire retardant PE	
	Min. thickness, mm	>0.50	
	Diameter, mm	49.80 ±0.40	
Mechanical properties			
Bending radius, mm		Single	300
		Repeated	500
		Moving	--
Pulling strength, N			1590
Crush resistance, kg/mm			1.30
Recommended temperature, °C	PE jacket	Storage	-70~+85
		Installation	-40~+60
		Operation	-55~+85
	Fire retardant PE jacket	Storage	-30~+80
		Installation	-25~+60
		Operation	-30~+80
Electrical properties			
Impedance, Ω			50±1
Capacitance, pF/m			72.5
Propagation velocity, %			88
DC breakdown voltage, kV			9.0
Insulation resistance, MΩ• km			>5×10 ³
Peak power, kW			302
Screening attenuation, dB			>>120
Cut-off frequency, GHz			2.80



Nominal attenuation and Power rate		
Frequency, Mhz	Nom. attenuation @20°C, dB/100m	Power rate, @ 20°C, kW
150	0.92	8.08
450	1.66	4.49
800	2.28	3.28
900	2.43	3.08
1800	3.61	2.07
1910	3.74	2.01
2000	3.84	1.95
2200	4.06	1.89
2700	4.58	1.62
2800	4.68	1.58
• Maximum attenuation value shall be 105% of the nominal attenuation value.		
VSWR		
806~960MHz		≤1.15
1700~2200MHz		≤1.15
30~3000MHz		≤1.25
Meet RoHS		

RoHS