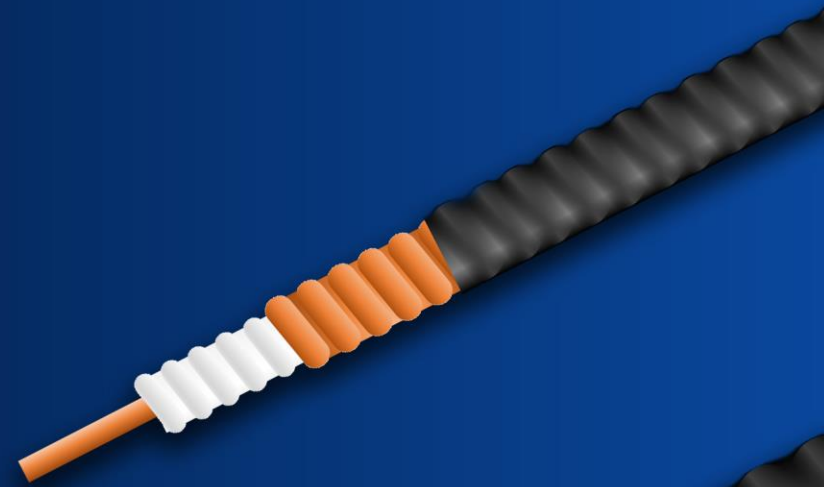


# Altelix 1/4" & 1/2" Super Flexible

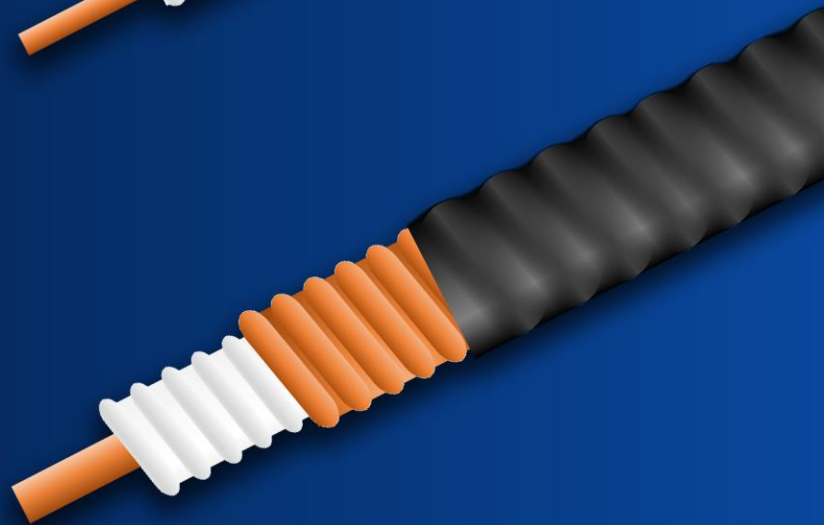
## ACC Series 50 Ohm Corrugated Coax Cable

- Super Flexible Corrugated Outer Conductor
- Copper-Clad Aluminum Center Conductor
- Black Polyethylene (PE) Jacket
- Equivalent to CommScope® Heliax® / SureFlex® FSJ4-50B & FSJ1-50A

1/4" Super Flexible

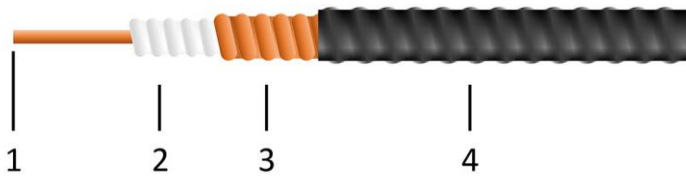


1/2" Super Flexible



## AX-SJ1-50A 1/4S Super Flexible Coax

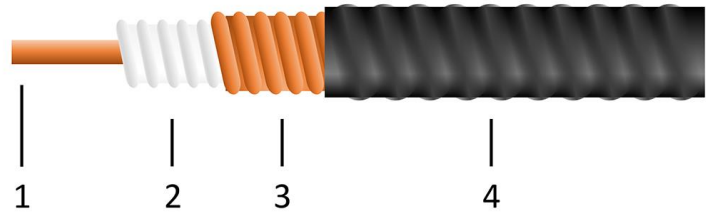
Construction Specifications			
Description	Material	In.	(mm)
1 - Inner Conductor	Copper Clad Aluminum	0.070	(1.90)
2 - Dielectric	Physical Foam PE	0.185	(4.70)
3 - Outer Conductor	Helical Copper Tube	0.25	(6.35)
4 - Jacket	Black Polyethylene	0.295	(7.50)



Electrical Specifications		
Performance Property	Units	Value
Impedance	Ohms	80
Capacitance	pF/m	50
Velocity of Propagation	%	83
Peak Power	KW	6.4
RF Peak Voltage	KV	0.80
Insulation Resistance	MΩ.km	>5000
Cutoff Frequency	GHz	20.4
Insulation Voltage	KVrms	2.0
Inner Conductor DC Resistance	Ω/km	10.2/6.4
Outer Conductor DC Resistance	Ω/km	7.02
Jacket Spark	KVrms	3.0
Shielding Effectiveness	dB	>120

## AX-SJ4-50B 1/2S Super Flexible Coax

Construction Specifications			
Description	Material	In.	(mm)
1 - Inner Conductor	Copper Clad Aluminum	0.141	(3.60)
2 - Dielectric	Physical Foam PE	0.346	(8.80)
3 - Outer Conductor	Helical Copper Tube	0.476	(12.10)
4 - Jacket	Black Polyethylene	0.527	(13.40)



Electrical Specifications		
Performance Property	Units	Value
Impedance	Ohms	80
Capacitance	pF/m	50
Velocity of Propagation	%	83
Peak Power	KW	19
RF Peak Voltage	KV	1.13
Insulation Resistance	MΩ.km	>5000
Cutoff Frequency	GHz	12.5
Insulation Voltage	KVrms	2.5
Inner Conductor DC Resistance	Ω/km	2.85/1.78
Outer Conductor DC Resistance	Ω/km	3.50
Jacket Spark	KVrms	5.0
Shielding Effectiveness	dB	>120

## AX-SJ4-50A 1/4S Super Flexible Coax

Mechanical and Environmental Specifications		
Performance Property	Units	Value
Min. Single Bending Radius	In. (mm)	0.50 (12.5)
Min. Repeated Bending Radius	In. (mm)	0.98 (25)
Number of Bends	-	15
Tensile Strength	kg	60
Storage Temperature	°F (°C)	-67 to +185 (-55 to +85)
Installation Temperature	°F (°C)	-4 to +140 (-20 to +60)
Operating Temperature	°F (°C)	-67 to +185 (-55 to +85)

Compliance	
RoHS	Compliant
REACH	Compliant

Packaging		
Part #	Per Foot	Reel
AX-SJ1-50A 1/4S FEET	√	Call Us



## AX-SJ4-50B 1/2S Super Flexible Coax

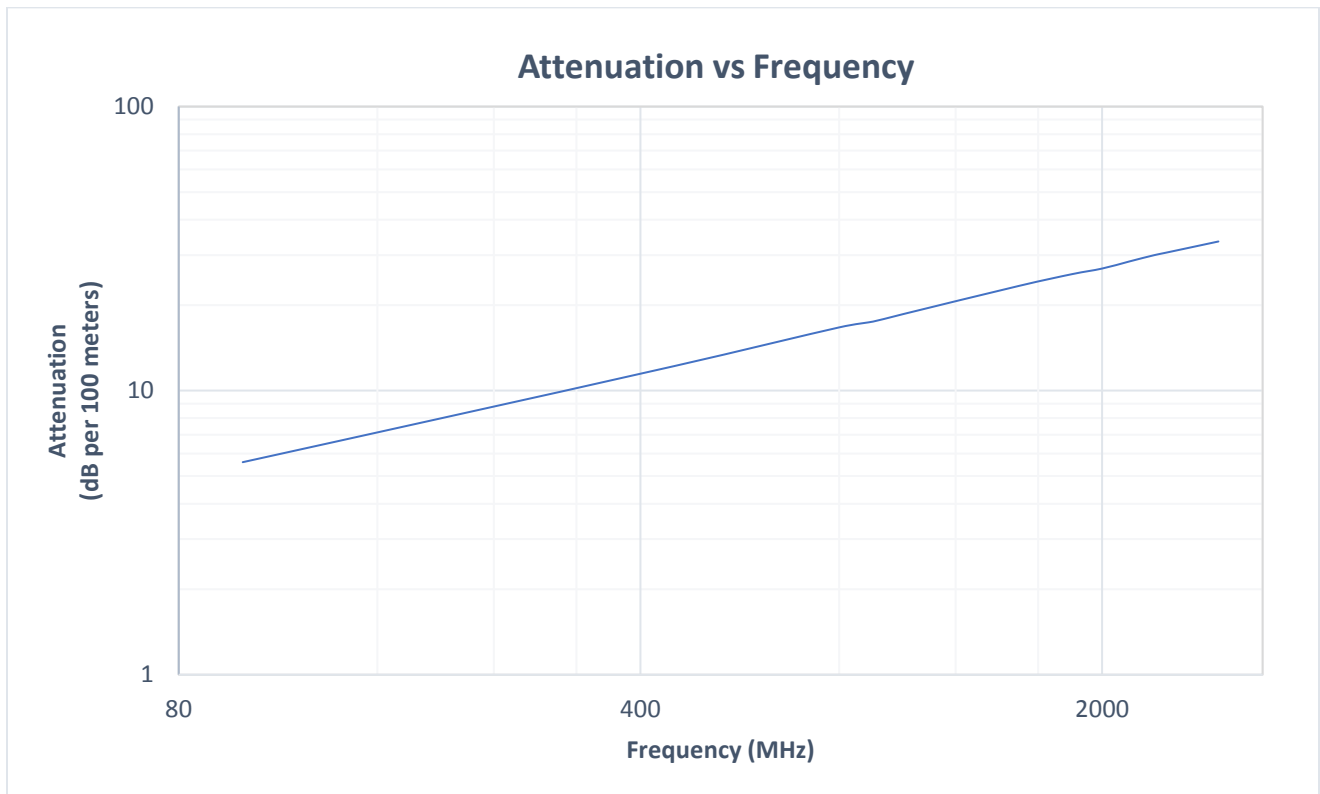
Mechanical and Environmental Specifications		
Performance Property	Units	Value
Min. Single Bending Radius	In. (mm)	2.0 (50)
Min. Repeated Bending Radius	In. (mm)	5.0 (125)
Number of Bends	-	15
Tensile Strength	kg	110
Storage Temperature	°F (°C)	-67 to +185 (-55 to +85)
Installation Temperature	°F (°C)	-4 to +140 (-20 to +60)
Operating Temperature	°F (°C)	-67 to +185 (-55 to +85)

Compliance	
RoHS	Compliant
REACH	Compliant

Packaging		
Part #	Per Foot	Reel
AX-SJ4-50B 1/2S FEET	√	Call Us



RF Performance – AX-SJ1-50A 1/4S		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	5.60	1.23
200	8.00	0.86
450	12.20	0.57
800	16.70	0.42
900	17.50	0.39
1000	18.60	0.37
1500	23.40	0.30
1800	25.70	0.27
2000	26.90	0.26
2200	28.50	0.25
2400	30.00	0.24
2500	30.60	0.23
3000	33.50	0.21



RF Performance – AX-SJ4-50B 1/2S		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	3.22	3.03
200	4.65	2.11
450	7.20	1.37
800	9.86	1.00
900	10.56	0.94
1000	11.15	0.88
1500	13.80	0.70
1800	15.55	0.63
2000	16.40	0.59
2200	17.35	0.56
2400	18.10	0.53
2500	18.50	0.52
3000	20.90	0.48

