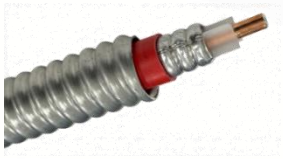
Armored 1/2" Aluminum Plenum Rated Coax

CS-AF12PAR750 / CS-AF12PAR500

Armored, Air Dielectric Coax, Aluminum Plenum Rated, Red Jacket, UL



Electrical Specifications

Product Model		CS-AF12PAR750	CS-AF12PAR500
Spool size		750ft/spool	500ft/spool
Frequency (MHz)		DC-6000	
Impedance (ohm)		50.0 ± 2.0	
Capacitance		75.45 (pF/m), 23.0 (pF/ft)	
Inductance		0.19(µH/m), 0.058 (µH/ft)	
Propagation Velocity (%)		88	
DC Breakdown Voltage (KV)		4.0	
Insulation Resistance (MΩ)		> 10,000	
Peak Power Rating (kW)		40.0	
Cut-off Frequency (GHz)		8.8	
VSWR. typical	555-2200MHz	1.15	
	2300-2700MHz	1.20	
	3300-4200MHz	1.25	
	4400-6000MHz	1.30	

Mechanical Specifications

Diameter Over Inner Conductor (in|mm)	0.189 | 4.80
Diameter Over Insulation (in|mm)	0.461 | 11.70
Diameter Over Outer Conductor (in|mm)	0.545 | 13.85
Diameter Over Jacket (in | mm)	0.618 | 15.70
Diameter Over Outer Armor-Clad (in|mm)	0.925 ± 0.06 | 23.5 ±1.5
Minimum Bending Radius-Single (in|mm)	2.5 | 178
Minimum Bending Radius-Multiple (in|mm)	5.0 | 304.8
Maximum Tensile Force (N | lbf)	776 | 175
Cable Weight. (lb./ft | kg/m)	0.23 | 0.34
Flat Crush (lb./in | kg/mm)	79.96 | 1.428
Shipping Dimension (in/mm)	28.3x28.3x20.5 | 720x720x520 @750ft 28.3x28.3x15.8 | 720x720x400 @500ft
Shipping Weight(lb./kg)	216.3 / 98.1 @750ft 151.0 / 68.5 @500ft

Material

Inner Conductor	Copper Clad Aluminum Wire
Insulation	PE Spline
Outer Conductor	Ring Corrugated Aluminum
Jacket	PVC, Red Plenum Rated Jacket
Armor-Clad	Interlocked Aluminum
Prep Tools	TL-F12(Tool kit included AP-F12, FL-F12 and hard case)
	AP-F12 (Prep-Tool), FL-F12(Flaring Tool), BL-F12(Blades)
Associated Connectors	CN-NM-F12: N-Male / CN-NF-F12: N-Female
	CN-4M-F12: 4.3-10-Male / CN-4F-F12: 4.3-10-Female
	SDC-F34S: 3/4" in trade size, Squeeze Connector

Environment

Application	Indoor / Outdoor
Storage Temperature	-25°C to +70°C
Operating Temperature	-25°C to +70°C
Installation Temperature	-20°C to +60°C

Compliance & Certification

Regulatory Compliance /Certifications	Plenum Rated.
	CMP ETL UL-444/CSA C22.2NO214 FT6
	NFPA 72 section 12.4.2 Pathway Survivability Level 1
RoHS	Compliant

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)
50	1.82	0.55	2100	12.54	3.82
100	2.29	0.70	2200	12.91	3.93
150	2.75	0.84	2300	13.27	4.04
174	2.96	0.90	2400	13.62	4.15
300	3.99	1.22	2500	13.98	4.26
340	4.29	1.31	2600	14.32	4.37
400	4.73	1.44	2700	14.67	4.47
450	5.07	1.55	2800	15.01	4.57
500	5.40	1.65	2900	15.34	4.68
600	6.02	1.83	3000	15.67	4.78
617	6.12	1.87	3100	16.00	4.88
698	6.58	2.01	3200	16.32	4.97
800	7.13	2.17	3300	16.64	5.07
894	7.61	2.32	3550	17.41	5.31
960	7.93	2.42	3600	17.56	5.35
1000	8.12	2.47	3700	17.86	5.44
1200	9.02	2.75	3800	18.16	5.53
1400	9.86	3.00	3900	18.45	5.62
1500	10.26	3.13	4000	18.74	5.71
1698	11.03	3.36	4100	19.04	5.80
1700	11.04	3.37	4200	19.33	5.89
1800	11.42	3.48	5000	21.68	6.61
1900	11.80	3.60	5500	23.16	7.06
2000	12.17	3.71	6000	24.42	7.44

Note: Typical attenuation at an ambient temperature +20°C (68°F)