



IntelliConnect

A different kind of Interconnect Solutions Provider

Product Data Sheet

[AL402TP](#) Aluminium Jacketed, Tin Plated Semi Rigid Cable – 0.141" Diameter

[AL405TP](#) Aluminium Jacketed, Tin Plated Semi Rigid Cable – 0.085" Diameter

[AL047TP](#) Aluminium Jacketed, Tin Plated Semi Rigid Cable – 0.047" Diameter

[Typical Applications – Defence / Aerospace / Instrumentation](#)

GENERAL DESCRIPTION

Cables are made using a solid metal outer conductor (usually copper or aluminium) which can be bent into shape as required. Generally, overall performance figures are improved using a solid outer conductor. Available in .047", .085", .141" and .250" diameter although other sizes are available on request.





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	Cable OD		
	0.047	0.085	0.141
Outer Conductor	Sn plate Al	Sn plate Al	Sn plate Al
Centre Conductor (ins)	SCCCS (.011)	SCCCS (.020)	SCCCS (.036)
Dielectric	PTFE (.017)	PTFE (.037)	PTFE (.066)
Minimum Bend Radius (in)	0.05	0.075	0.125
Impedance (ohm)	50	50	50
Capacitance (pF/ft)	29	29	29
Max Voltage (vrms)	2000	5000	5000
Temperature Range (deg C)	-55 to +150	-55 to +225	-55 to +125
Maximum operating Frequency (GHz)	109	61	34

Attenuation (dB/100ft)	0.047	0.085	0.141
0.5 GHz	25.8	13.4	8.3
1 GHz	36.7	19.1	12.1
5 GHz	84.5	43.3	30.1
10 GHz	121.9	62	45.5
20 GHz	177.3	89.1	70

Power Rating (W)	0.047	0.085	0.141
0.5 GHz	96.8	298	600
1 GHz	68.1	210	450
5 GHz	29.9	93	180
10 GHz	20.8	65	120
20 GHz	14.4	45	70