



# IntelliConnect

A different kind of Interconnect Solutions Provider

## Product Data Sheet

[C402/C402TP](#) Copper Jacketed Semi Rigid Cable – 0.141" Diameter unplated/tin plated

[C405/C405TP](#) Copper Jacketed Semi Rigid Cable – 0.085" Diameter unplated/tin plated

[C047/C047TP](#) Copper Jacketed Semi Rigid Cable – 0.047" Diameter unplated/tin plated

[C401/C401TP](#) Copper Jacketed Semi Rigid Cable – 0.250" Diameter unplated/tin plated

[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	0.250
Outer Conductor	Cu/Sn plate Cu	Cu/Sn plate Cu	Cu/Sn plate Cu	Cu/Sn plate Cu
Centre Conductor (ins)	SCCCS (.011)	SCCCS (.020)	SCCCS (.036)	SCCCS (.064)
Dielectric	PTFE (.017)	PTFE (.037)	PTFE (.066)	PTFE (.209)
Minimum Bend Radius (in)	0.05	0.05	0.05	0.075
Impedance (ohm)	50	50	50	50
Capacitance (pF/ft)	29	29	29	29
Max Voltage (vrms)	2000	5000	5000	7500
Temperature Range (deg C)	-55 to +150	-55 to +150	-55 to +125	-55 to +1100
Maximum operating Frequency (GHz)	109	61	34	19

	Cable OD			
	0.047	0.085	0.141	0.250
Attenuation (dB/100ft)				
0.5 GHz	24	13.6	7.8	4.6
1 GHz	34.2	19.5	11.3	6.8
5 GHz	78.8	45.9	27.7	17.4
10 GHz	113.8	67.5	41.5	27
20 GHz	165.9	100.3	63.6	-

	Cable OD			
	0.047	0.085	0.141	0.250
Power Rating (W)				
0.5 GHz	67.4	232	484	1061
1 GHz	47.4	162	336	728
5 GHz	21	70	140	290
10 GHz	14.4	48	95	190
20 GHz	10	33	63	-