

June 1st, 2016

Dear Loyal PIC Customer,

As a loyal customer of our S65161 50 Ohm cable, PIC Wire & Cable would like to thank you for your business and inform you of a new and improved version of that cable which is immediately available. The S65161-A is nearly electrically equivalent to the original, but has a new extruded, expanded PTFE dielectric that is more rugged than PTFE tape. We believe it can be used as a direct replacement of the S65161 in almost all cases.

The table below shows the direct cable comparison. Please reference the specific product profiles for additional information.

<u>Characteristic</u>	<u>Value</u>	<u>Obsolete S65161</u>	<u>New S65161-A</u>
Conductor	16 AWG Stranded SPC	✓	✓
Operating Temperature	-65°C to +200°C	✓	✓
Weight	3.5 lbs/100ft	✓	✓
Outer Diameter	0.20 in	✓	✓
RF Shielding Effectiveness	-110 dB/min	✓	✓
Capacitance	-26.0 pF/ft	✓	✓
Attenuation (Nom/Max)	@400 MHz	5.0 / 5.5	5.1 / 5.6
	@1.0 GHz	7.9 / 8.8	8.2 / 9.1
	@1.6 GHz	10.1 / 11.3	10.5 / 11.6
	@5.0 GHz	18.5 / 20.6	19.2 / 21.1

Because of this advancement, we have decided to obsolete the S65161 effective June 1st, 2016. We are accepting S65161 orders as a last-time buy through Oct 1st, 2016, with the last material to be shipped by Dec 31st, 2016.

We recognize the impact that an obsolescence notification has on your operation. We would be happy to meet with you or supply a sample of the new cable for your review. In the meantime, please feel free to call our customer service team with any questions or concerns you may have.

Again, thank you for your business. We look forward to continuing to serve you.

Sincerely,

Paul C. Dieck
VP, Product Management
PIC Wire & Cable

CABLE CONSTRUCTION

1. ETFE Jacket (White) Laser Markable
2. Silver-Plated Copper Braided Shield
3. Silver-Plated Copper Spiral Shield
4. PTFE Dielectric
5. Silver-Plated Copper Conductor



This is a flexible, unusually lightweight cable with electrical characteristics comparable to RG393, yet weighs less than 25%. It is half the diameter (and thus far more flexible), laser-markable, easier to terminate, and easily assembled in the field.

S65161 is 100% shielded construction, incorporating both silver-plated copper spiral (inner) and braided (outer) shields. The inner spiral shield conforms to the low-loss PTFE expanded-tape dielectric for superior uniformity and stability of all operating parameters, initially and over time.

It is Skydrol resistant, RoHS compliant and meets the FAA flammability requirements of FAR Part 23 and 25, Appendix F; complies with MIL-C-17 as applicable.

PHYSICAL DATA

- Conductor 16 AWG Stranded SPC
- Operating Temperature -65° to +200°C
- Outer Diameter: in (mm) 0.20 (4.95)
- Minimum Bend Radius: in (mm) 1.00 (25.40)
- Weight: lbs/100 ft (kg/100 m) 3.5 (5.2)

ELECTRICAL DATA

- Impedance: ohms 50
- Capacitance: pF/ft (m) 26.0 (85.3)
- Velocity of Propagation: % 83.0
- Time Delay: ns/ft (m) 1.23 (4.04)
- RF Shielding Effectiveness: dB/min -110
- DC Resistance: ohms/1000 ft (m) 3.9 (12.8)
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
 - @400 MHz 5.0 / 5.5 (16.4 / 18.0)
 - @1.0 GHz 7.9 / 8.8 (25.9 / 28.9)
 - @1.6 GHz 10.1 / 11.3 (33.1 / 37.1)
 - @5.0 GHz 18.5 / 20.6 (60.7 / 67.6)
- K Values: K1 = 8.47, K2 = 0.32
- Formula for Attenuation: $(K1 * \sqrt{F(GHz)}) + (K2 * F(GHz))$

REPLACED BY S65161-A



All values nominal unless otherwise noted



PIC P/N **CONNECTOR TYPE**

ARINC

190519A	404 Size 1
190501A	600 Size 1
190502A	600 Modified Size 1
190503A*	404/600 Size 5

M39012

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
190512A	BNC Straight Plug	110476 / 110580	QMA Straight Plug
190513A	BNC 90° Plug	110477 / 110581	QMA 90° Plug
190527A*	BNC Inline Jack	190514A	SMA Straight Plug
190506A	C Straight Plug	190515A	SMA 90° Plug
190507A	C 90° Plug	190525A*	SMA Inline Jack
190504A	HN Straight Plug	190508A	TNC Straight Plug
190505A	HN 90° Plug	190509A	TNC 90° Plug
190510A	N Straight Plug	190531A	TNC 75° Plug
190511A	N 90° Plug	190523A*	TNC Inline Jack
190524A*	N Inline Jack	190521A	TNC Bulkhead Jack
190522A*	N Bulkhead Jack		

CONNECTORS STILL AVAILABLE FOR THE S65161
THE S65161 CABLE HAS BEEN REPLACED WITH S65161-A



*Die Sets Available On Loan Or For Purchase From PIC
Refer To Connector Drawing For Tooling
* Call PIC For Availability*

