

6QP-052-11.00-TEU-TED-1-S

**6QP SERIES**

# POWER/SIGNAL COMBO CABLE ASSEMBLY

**SPECIFICATIONS**

For complete specifications and recommended PCB layouts see [www.samtec.com?6QP](http://www.samtec.com?6QP)

**Signal Cable:**

- Cable Type:** 38 AWG
- 50Ω coax
- Current Rating:** 300 mA max
- Capacitance:** 96.79 pF/meter (nominal)
- Inductance:** .230 mH/meter (nominal)
- Propagation Delay:** 4.79 nS/meter

**Power Cable:**

- Cable Type:** 26 AWG 13Ω coax
- Current Rating:** 4A
- Capacitance:** 239 pF/meter (nominal)
- Inductance:** .092 mH/meter (nominal)
- Propagation Delay:** 4.79 nS/meter

**Connector:**

- Insulator Material:** Liquid Crystal Polymer
- Terminal & Ground Plane Material:** Phosphor Bronze
- Plating:** Au over 50μ" (1,27μm) Ni

**Assembly:**

- Voltage Rating:** 300 VAC mated with QFS
- Operating Temp:** -55°C to +105°C
- RoHS Compliant:** Yes

Mates with: QFS



38 AWG 50Ω coax cable

52 signal lines

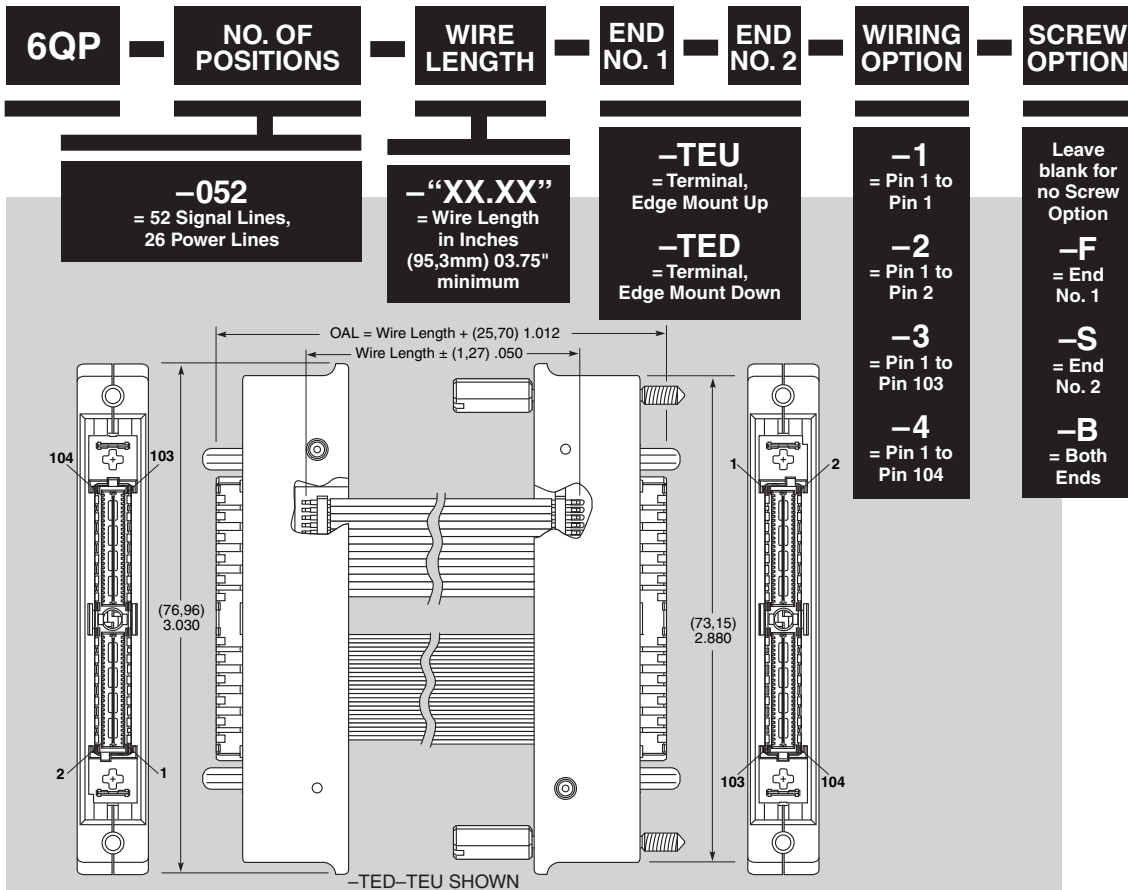
Minimizes EMI aggression

Minimizes coupling to high speed signals

26 AWG 13Ω "Quiet Power" coax cable

26 power lines

Cable Length	Rated @ 7dB Insertion Loss
	6QP
6" (152,4mm)	9.24 GHz / 18.48 Gbps
12" (304,8mm)	6.16 GHz / 12.32 Gbps
39.37" (1m)	5.19 GHz / 10.38 Gbps



**Note:** Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.

**Note:** Verify part number and correct wiring scheme with Samtec's Interactive Cable Builder at [www.samtec.com/cable\\_builder/pitch.aspx](http://www.samtec.com/cable_builder/pitch.aspx)

**Note:** This Series is non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

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