

## OCTOMAX 1G26 Contacts



### Description

Amphenol Socapex OctoMax 1G26 solution is the perfect choice for Ethernet or high data transfer rate, low power consumption and excellent EMI compatibility. It offers an easy drop-in replacement of existing size 8 keyed contacts with no need of redesign.

### Main Features

- Eight strategically spaced inner contacts form four 100 Ohm matched impedance differential pairs
- Can be installed in existing size 8 Quadrax cavities
- Support wire Gauge 26 for crimp termination
- Available in PC Tail version

### Mechanical

- Durability: minimum 500 mating / cycle
- Shocks: MIL-DTL-38999 Series III
- Vibrations : MIL-DTL-38999 Series III

### Environmental

- Salt spray: 48 hours minimum
- Temperature range: -65°C, +175°C

### Material

- Inner contact: copper alloy
- Body: copper alloy
- Insulator: thermoplastic
- Contact plating: gold over nickel plated

### Markets & Applications



C4ISR



Ground Vehicle



Commercial Aerospace



Space



#### Applications:

- › Ethernet
- › AFDX (Avionics Full Duplex Switched Ethernet)
- › Cockpit (display) and IFE

# OCTOMAX 1G26 Contacts

## Material

- Contact resistance at rated current:

Contact	Rated current (A)	Max contact resistance (mΩ)		
		23°C		150°C
		Initial	After tests	
Signal contacts	1	7	7,5	10
Outer body	12	2	4	6

## Dielectric withstanding voltage:

- Sea level :
  - 500 Vrms between signal contacts
  - 250 Vrms between signal contacts and outer body
- 21000m:
  - 125 VRms between signal contacts and signal contacts and outer body
- Insulation resistance: at ambient temperature > 5000 MΩ, at high temperature > 1000 MΩ
- Characteristic impedance: 100Ω@100MHz
- Attenuation ≤ 0.3 dB@100 MHz typical per contact pair (cat 5E requirement = 0.3 dB@100 MHz)
- Crosstalk ≥ 40 dB @ 100 MHz typical (cat5E requirement = 40 dB)

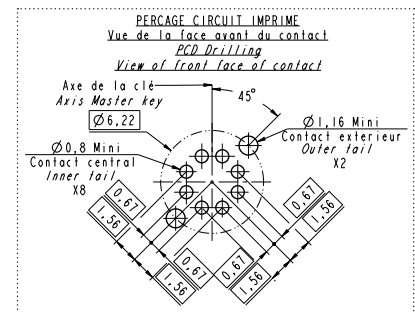
## Portfolio MIL-DTL-38999, EN3645, EN4165

### Crimp

Contact Size	Cable	Contact Part Number		Impedance (Ohms)	Inner Conductor Gauge	Electrical Protocol	Crimping Tools	
		Pin	Socket				Inner contacts	Outer contacts
8	Thermax MX 10G-26FLX PIC E6A 3826	603072	603069	100Ω	26	Ethernet 1000Base-T Gigabit Ethernet	M22520-2-01	M22520/5-01 with M22520/5 (A)
	Gore RCN9047-026	612251	612250				K1976 (2) for Socket K1975 (2) for pin	TBD

### Print circuit board contacts

Contact Size	Release	Type	Contact Part Number		Impedance (Ohms)
			Pin	Socket	
8	Rear	CI	603471	603078	100Ω
	Rear	LI	612253	612252	



## Portfolio ARINC600

### Crimp

Contact Size	Cable	Contact Part Number		Impedance (Ohms)	Inner Conductor Gauge	Electrical Protocol	Crimping Tools	
		Pin	Socket				Inner contacts	Outer contacts
8	Thermax MX10G-26FLX PIC E6A3826	612072	612071	100Ω	26	Ethernet 1000Base-T Gigabit Ethernet	TBD	M22520/5-01 with M22520/5 (A)
	Gore RCN 9047-026	612255	612254				TBD	

### Print circuit board contacts

Contact Size	Release	Type	Contact Part Number		Impedance (Ohms)
			Pin	Socket	
8	Front	CI	612257	612256	100Ω
	Rear	CI	603302	603301	

