

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)

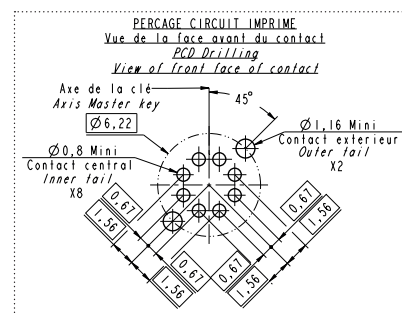
Portfolio MIL-DTL-38999, EN3645, EN4165

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	603072	603069	100Ω	26	Ethernet 1000Base-T Gigabit Ethernet	M22520-2-01 K1976 (2) for Socket K1975 (2) for pin	M22520/5-01 with M22520/5 (A)
	Gore RCN9047-026 PIC E6A 3826	612251	612250					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	612072	612071	100Ω	26	Ethernet 1000Base-T Gigabit Ethernet	TBD	M22520/5-01 with M22520/5 (A)
	Gore RCN 9047-026 PIC E6A3826	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	