

# RF, Microwave and Datalink Contacts

for MIL-DTL-38999, SuperNine®, Mighty Mouse, and Micro-Crimp Connectors



## Product Selection Guide

### AS39029 RF Contacts



#### Size #8 AS39029 Coaxial Contacts for RG-180..... 6 *dc – 700 MHz*

Size #8 coaxial contacts accept RG-180 cable. Maximum frequency is 700 MHz. Crimp termination. Snap-in, rear release. Compatible with MIL-DTL-38999 Series I, III, and IV, Series 23 SuperNine, and Series 80 Mighty Mouse connectors with size 8 cavities. AS39029 qualified.



#### Size #12 AS39029 Coaxial Contacts ..... 7 *dc – 3 GHz*

Size #12 coaxial contacts accept RG-174, RG-179, RG-180 and RG-316 cable. Crimp termination. Snap-in, rear release. Compatible with MIL-DTL-38999 Series I, II, III, and IV, Series 23 SuperNine, Series 79 MicroCrimp and Series 80 Mighty Mouse connectors with size 12 cavities. AS39029 qualified.



#### Size #16 AS39029 Coaxial Contacts ..... 8 *dc – 500 MHz*

Size #16 coaxial contacts accept RG-174, RG-178, RG-179 and RG-316 cable. Crimp termination. Snap-in, rear release. Compatible with MIL-DTL-38999 Series I, II, III, and IV, Series 23 SuperNine, Series 79 MicroCrimp and Series 80 Mighty Mouse connectors with size 16 cavities. AS39029 qualified.

### 50 Ohm Low-Loss Matched-Impedance Coaxial Contacts



#### Size #8 50 Ohm Matched-Impedance Contacts..... 10 *dc – 6 GHz*

High-frequency matched-impedance #8 contacts accept RG-316 single and double shielded cable along with M17/220-0001 cable. Compatible with MIL-DTL-38999, Series 23 SuperNine and Series 80 Mighty Mouse connectors. Crimp termination. Snap-in, rear-release. 50 ohm impedance.



#### Size #12 50 Ohm Matched-Impedance Contacts ..... 12 *dc – 3 GHz*

High-frequency matched-impedance contacts accept RG-178, RG-316, and RG-405 flex cable. Compatible with MIL-DTL-38999 Series I, II, III and IV, Series 23 SuperNine, Series 79 MicroCrimp and Series 80 Mighty Mouse connectors. Crimp termination. Snap-in, rear-release. 50 ohm impedance.

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### 75 Ohm Low-Loss Matched-Impedance Coaxial Contacts



#### Size #8 75 Ohm Matched-Impedance Contacts ..... 14 *dc – 4 GHz*

High-frequency 75 ohm #8 contacts accept RG-179 cable along with high performance RS170, SMPTE 292M, SMPTE 424M and other video cables. Compatible with MIL-DTL-38999 Series I, III, and IV, Series 23 SuperNine and Series 80 Mighty Mouse connectors. Crimp termination. Snap-in, rear-release.



#### Size #12 75 Ohm Matched-Impedance Contacts ..... 16 *dc – 3 GHz*

75 ohm size #12 matched-impedance contacts accept high performance RS170, SMPTE 292M and other video cables. Compatible with MIL-DTL-38999 Series I, II, III, and IV, Series 23 SuperNine, Series 79 MicroCrimp and Series 80 Mighty Mouse connectors. Crimp termination. Snap-in, rear-release.



#### 75 Ohm High-Performance Video Cable ..... 18

Cable is specially designed and manufactured for reliable performance in aircraft systems and other harsh environments involving high temperature, EMI and corrosive materials.

### 50 Ohm Spring-Loaded Microwave Coaxial Contacts



#### Size #8 Spring-Loaded BMB Coaxial Contacts ..... 22 *dc – 18 GHz*

These size 8 contacts conform to the MIL-STD-348 BMB interface standard. These contacts accept RG-402-FLEX and RG-405-FLEX cables along with other low loss flexible cables. Compatible with MIL-DTL-38999 Series I, III, and IV, Series 23 SuperNine and Series 80 Mighty Mouse connectors. Solder termination.



#### Size 12 Spring-Loaded SMPM Coaxial Contacts ..... 24 *dc – 40 GHz*

These size 12 contacts accept RG-405-FLEX cable and are compatible with MIL-DTL-38999, Series 23 SuperNine, Series 79 MicroCrimp and Series 80 Mighty Mouse connectors. Solder termination. .

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### Twinax Contacts



#### Size #8 77 Ohm Concentric Twinax Contacts ..... 26

M39029 concentric twinax contacts accommodate 77 ohm shielded twisted pair cable. These size 8 contacts meet the requirements of M39029/113 and /114. Compatible with MIL-DTL-38999, Series 23 SuperNine and Series 80 Mighty Mouse connectors. Use with M17/176-00002 databus cable, 10 MHz maximum operating frequency.



#### Size #8 100 Ohm Concentric Twinax Contacts ..... 28

These concentric twinax contacts accommodate 24 AWG 100 ohm shielded twisted pair data cable. Compatible with MIL-DTL-38999 Series I, III, and IV, Series 23 SuperNine and Series 80 Mighty Mouse connectors. Accepts TE/Raychem 0024A0024 and Gore GSC-03-81416-00 cables.



#### Size #12 77 Ohm Concentric Twinax Contacts ..... 30

M39029 concentric twinax contacts accommodate 77 ohm shielded twisted pair data cable. Typically used for MIL-STD-1553 databus applications, these size 12 contacts meet the requirements of JN1104, DSCC 02003 and DSCC 02004. Compatible with MIL-DTL-38999 Series I, III, and IV connectors. Snap-in, rear release, crimp termination.



#### Size #8 Differential Twinax Contacts ..... 32

Rated for dc – 3 GHz frequency, these contacts accept 68, 75, 77 and 100 ohm shielded twisted pair cable including with M17/176-00002 databus cable. Compatible with Series 80 Mighty Mouse connectors and Glenair 233-217 MIL-DTL-38999-type Series III connectors with keyed #8 cavities. **Not for use in standard MIL-DTL-38999 connectors with unkeyed inserts.**



#### Size #12 Differential Ultra-Twinax Contacts ..... 35

These 100 Ohm differential twinax contacts are suited for multi-gigabit data rate applications such as CML, LVDS and other advanced digital communications protocols. Use with high-speed #30 AWG twisted pair cable. These contacts are compatible with Glenair Series 80 Mighty Mouse connectors with size #12 cavities. Size #12 100 ohm contacts feature DC – 10 GHz frequency range. Solder termination.

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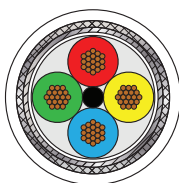
### Quadrax Contacts



#### Quadrax Contacts ..... 37

100 ohm Ethernet and 150 ohm Fibre Channel differential quadrax contacts are compatible with standard Series 80 Mighty Mouse connectors and Glenair 233-217 MIL-DTL-38999-type Series III connectors with keyed #8 inserts. These contacts accept aerospace grade quad cable.

*Not for use with standard MIL-DTL-38999 connectors with unkeyed inserts.*



#### Quad Cable..... 39

Aerospace-grade four-conductor 100 ohm quad cable is available in wire sizes 22, 24 and 26. These high-performance cables feature inner and outer shields for excellent EMI protection. High-temperature fluoropolymer insulation provides up to 150°C or 200°C temperature rating.

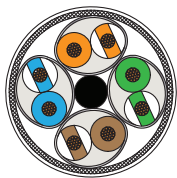
### El Ochito® Octaxial Contacts



#### El Ochito® Octaxial Contacts ..... 40

El Ochito, “the Little 8”, brings 100BASE-T and 10GBASE-T capability to a size #8 snap-in contact with eight inner contacts. Data pair isolation technology reduces crosstalk between pairs. This contact accepts flight-grade Cat6a cable with #26AWG conductors.

*Not for use with standard MIL-DTL-38999 connectors with unkeyed inserts.*



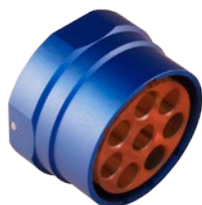
#### Aerospace Cat6a Cable..... 46

Lightweight, shielded flight-grade Ethernet cable is available in two styles: S/UTP (unshielded pairs) and S/FTP (foil-wrapped pairs). These 26 AWG cables are 200°C rated and meet ANSI/TIA 568-C.2 Category 6a requirements.



#### Pre-Wired El Ochito® Contacts ..... 47

Pre-wired El Ochito® assemblies are 100% tested and ready for use. These assemblies are available with three termination options: single-ended, El Ochito® contacts on both ends, or with an RJ45 plug on one end.



#### El Ochito® Test Adapters and Jumpers ..... 49

Prevent damage to expensive cables with El Ochito® test adapters and jumper cables. These test adapters properly align mating test contacts without the added expense and time-consuming labor of mating connectors. Jumper cables have shielded Cat6a RJ45 plugs.