

Rectangular Rack & Panel Connectors

That Incorporate High Speed Contacts

Amphenol provides an impressive array of Rectangular Interconnection products to meet the needs of high density systems such as opto-electrical backplanes used in many applications that include: medical equipment, IC chip testers, telecommunications, military and commercial aviation, military ground vehicles, GPS systems, space and industrial applications.

ARINC 600 and R27 Rack and Panel connectors can incorporate:

- Size 8 Coax contacts
- Size 1 and size 5 Coax (consult Amphenol Canada)
- Size 12 Twinax contacts
- Size 8 Quadrax contacts
- Size 8 Differential Twinax contacts

ARINC 600 Rack and Panel Rectangular Connectors

See Amphenol Canada Publication SL-379, ARINC 600 Rack and Panel Connectors for complete information.

- The ARINC 600 is the successor to the ARINC 404 for many of the new avionics designs and offers lower mating force contacts, increased contact count and a front release, floating keying system
- ARINC 600 Connectors are a recognized standard rack and panel connector for aircraft applications with both environmental and non-environmental versions available
- Designed to meet all relevant ARINC 600 connector specifications
- Front removable keying posts
- Up to 800 size 22 contact positions in one connector
- Contact options: standard contacts are power/signal crimp rear release in sizes 12, 16, 20 and 22 in crimp or PCB; or shielded coax, concentric twinax, quadrax contacts; or fiber optics
- Waveguide connections

R27 Rack and Panel Rectangular Connectors

See Amphenol Canada Publication for R27 Series Connectors for complete information.

- The R27 Series is a robust rectangular connector designed to meet or surpass all the requirements of the MIL-DTL-83527 specification and EN 3682 European Standard.
- Well suited for harsh environments - enhanced environmental sealing, robust and durable shells, EMI shielding spring
- Filtered or non-filtered
- Connectors, shells, inserts, termination modules and contacts are sold separately or fully assembled
- Interchangeable insert patterns with ARINC 600 models
- Contact options: standard contacts are power/signal crimp rear release in sizes 12, 16, 20 and 22 in crimp or PCB; or shielded coax, concentric twinax, quadrax contacts; or fiber optics



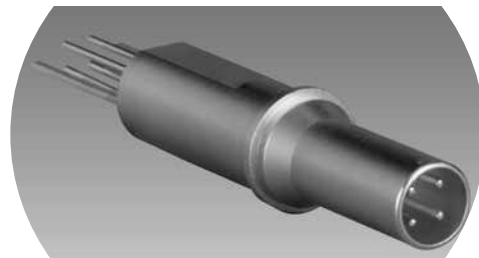
ARINC 600 Rack and Panel Connectors are high density connectors that can incorporate high speed shielded contacts



R27 Series Rack and Panel Connector can incorporate high speed shielded contacts



Coax Contact, Size 8 for use in ARINC Rack and Panel Connectors



Quadrax Contact, Size 8 for use in ARINC Rack and Panel Connectors

38999

| |
|-------------|
| III |
| HD |
| Dualok |
| II |
| I |
| SJT |
| Accessories |
| Aquacon |
| Herm/Seal |
| PCB |

| |
|----------------------------|
| HIGH SPEED |
| Fiber Optics |
| Contacts Connectors Cables |

| |
|-------------------------|
| EMI Filter Transient |
| 26482 Matrix 2 |
| 83723 III Matrix Pyle |
| 26500 Pyle |

| |
|--------------------------------|
| 5015 Crimp Rear Release Matrix |
| 22992 Class 1 |

| |
|----------------|
| Back-Shells |
| Options Others |

38999

ARINC 600 & R27 Rack and Panel Connectors

| QUADRAX CONTACTS FOR USE IN ARINC 600 & R27 CONNECTORS | | | | | | |
|--|--|-------------------------------|---------------------|-----------------|--|---|
| Cable | Contact Part Number (Termination Instruction Sheet)** | | Impedance (Ohms) | Contact Size | Crimping Tools | |
| | Pin | Socket | | | Inner Contact | Outer Contact |
| Tensolite NF24Q100-01, 24443/9P025X-4(LD), S280W502-4, 24443/03130X-4(LD), PIC E51424 | 21-033382-021 (L-2119-AH) | 21-033383-021 (L-2119-AH) | 100 | 8 | M22520/2-01 with Positioner Daniels K709 (M22520/2-37) | M22520/5-01 with Die Set M22520/5-45 (Location B) |
| Draka Fileca F-4703-3 | 21-033382-031 (L-2119-I) | 21-033383-031 (L-2119-I) | 100 | | | |
| Draka Fileca F-4704-5, NF22Q100 | 21-033382-101 (L-2119-AS)† | 21-033383-101 (L-2119-AS)† | 100 | | | |
| JSFY02-1 | 21-033382-071 ↑ | 21-033383-071 ↑ | 110 | | | |
| Tensolite 26473/02006X-4(LD), Gore RCN8328 | 21-033382-061 (L-2119-L) | 21-033383-061 (L-2119-L) | 150 | | M22520/2-01 with Positioner Daniels K709 (M22520/2-37) | M22520/5-01 with Die Set M22520/5-45 (Location A) |

| DIFFERENTIAL TWINAX CONTACTS FOR USE IN ARINC 600 & R27 CONNECTORS | | | | | | |
|---|--|------------------------------|---------------------|-----------------|--|---|
| Cable | Contact Part Number (Termination Instruction Sheet)** | | Impedance (Ohms) | Contact Size | Crimping Tools | |
| | Pin | Socket | | | Inner Contact | Outer Contact |
| ABS0386WF24 | 21-033378-021 (L-2119-G) | 21-033379-021 (L-2119-G) | 100 | 8 | M22520/2-01 with Positioner Daniels K709 (M22520/2-37) | M22520/5-01 with Die Set M22520/5-45 (Location A & B) |
| ASNE0272TK22 | 21-033378-031 (L-2119-G) | 21-033379-031 (L-2119-G) | 100 | | | |
| ASNE0272TK24 | 21-033378-041 (L-2119-G) | 21-033379-041 (L-2119-G) | 100 | | | |
| Tensolite 24463/9P025X-2(LD) | 21-033378-051 ↑ | 21-033379-051 ↑ | 100 | | | |
| GC875TM24H | 21-033378-061 (L-2119-AU) | 21-033379-061 (L-2119-AU) | 77 | | | |
| | 21-033378-071 ↑ | 21-033379-071 ↑ | 110 | | | |

| COAX CONTACTS FOR USE IN ARINC 600 & R27 CONNECTORS | | | | | |
|--|--|-----------------------------|-----------------|---|--|
| Cable | Contact Part Number (Termination Instruction Sheet)** | | Contact Size | Crimping Tools | |
| | Pin | Socket | | Inner Contact | Outer Contact |
| RG-179, RG316 | 21-033676-001 (L-2090-B) | 21-033675-001 (L-2090-A) | 8 | M22520/2-01 with Positioner K1275 | M22520/10-01 with Die Set M22520/10-05 (A) |
| RG-179, RG316 | 21-033476-001 | 21-033475-001 | | | |
| 5M2869-001 | 21-033676-002 ↑ | 21-033675-002 ↑ | | | |

| PCB QUADRAX CONTACTS FOR USE IN ARINC 600 & R27 CONNECTORS | | | | |
|---|---------------------|---------------|---------------------|-----------------|
| PCB Quadrax Contacts | Contact Part Number | | Impedance (Ohms) | Contact Size |
| | Pin | Socket | | |
| PCB (.346 Length) | | 21-033397-171 | 100 | 8 |
| PCB (.473 Length) | 21-033398-261 | | | |

| TWINAX CONTACTS FOR USE IN ARINC 600 & R27 CONNECTORS | | | | | |
|--|--|-----------------------------|-----------------|-----------------------------------|-------------------------------------|
| Cable | Contact Part Number (Termination Instruction Sheet)** | | Contact Size | Crimping Tools | |
| | Pin | Socket | | Inner Contact | Outer Contact |
| EPD 32263, 10612, GSC-12-2548-00 | 21-033631-004† (L-2092-U)† | 21-033632-003 (L-2092-J) | 12 | MH992 with Positioner K1365 | GS200-1 with Positioner GP959 |

† Consult Amphenol Aerospace for current release of this contact or instruction sheet if applicable.

Daniels crimping tools are available from Daniels Mfg. Corp. 6103 Anno Ave., Orlando, FL 32809

**Termination instructions are packaged with each contact and can be found on-line at: www.amphenol-aerospace.com/serviceinstructions.asp

III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

**HIGH
SPEED**
Fiber
Optics
Contacts
Connectors
Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix | Pyle

26500
Pyle

5015
Crimp Rear
Release
Matrix

22992
Class 1

Back-
Shells

Options
Others