

MIL-DTL-5015, MIL-DTL-22992 Circular Connector Overview



Amphenol's medium to heavy weight circular include the MS/Standard MIL-DTL-5015 series and the heaviest weight, largest size circular is the Heavy Duty MIL-DTL-22992 series. These time-tested circulars have been used for several years. They are dependable general duty and environmentally resistant connectors for military and industrial applications.

Shielded coax contacts, although more popularly used in 38999 types and 26482 types, can be incorporated into some arrangements of the 5015 and 22992 type circulars. Shielded coaxial contacts within these series are considered MS modifications to the MIL-spec connector and the coax contacts are pre-installed in the connector. Normal operating voltage with power contacts only is up to 3000 VAC (RMS) at sea level for MIL-DTL-5015 circulars. The Heavy Duty types are designed for high current capacity and have current ratings (with power contacts only) of up to 200 amps.

Standard and Heavy Duty Circular offer these features for contact termination flexibility:

- Insert arrangements that can incorporate:
- Size 4, 8 & 12 Crimp Coax contacts, pre-installed in the connector
- Wide selection of connector shell styles and sizes
- Standard power contact options within the various connector styles include: solder type, crimp front release, crimp rear release
- Coax contacts are designed to the same high performance standards as power contacts. Coax and power contacts may be intermixed with no degradation of connector reliability.

Amphenol® MS/Standard Circular MIL-DTL-5015* Type Connector Family:

See MS/Standard catalog 12-020 for complete information on these styles

MS-A, MS-C, MS-E, MS-F, MS-R

- Produced in strict accordance with MIL-DTL-5015
- Threaded coupling, solder or crimp rear insertion contacts (coax available in crimp type only)
- Class A, Solid Shell - intended for general connector usage
- Class C, Pressurized - for use on pressurized bulkheads or pressure barriers
- Class E/F, Environmental Resisting - ideally suited for installation where condensation, vibration and rapid changes in pressure or temperature are considerations
- Class R, Lightweight Environmental Resisting - shorter in length and lighter in weight than Class E

GENERAL ORDERING INFORMATION

Amphenol MS/Standard MIL-DTL-5015 type and Heavy Duty MIL-DTL-22992 type circulars are normally supplied with a full complement of power contacts, separately packaged. Coax contacts are ordered by part number as referenced in the part number charts on the following pages of this catalog, and are substituted for the power contacts at the time of the cable or equipment assembly. Coax contacts are pre-installed in these series. Installation instructions for the coax contacts for these series are provided in Amphenol document L-650.

HOW TO ORDER:

1. Select the coax contacts designed for the cable being used from the chart on page 409 of this catalog. Select a connector insert from those shown on page 44 which will accommodate the quantity and size of coaxial contacts needed plus any power contacts required.
2. Determine the MS/Standard or Heavy Duty Series style desired. (See features of each series referenced above). The catalog referenced for each series will guide you in determining shell style, finish, service class and insert rotation required for your application. MS/Standard MIL-DTL-5015 Type Connectors (Catalog 12-020 on-line at www.amphenol-industrial.com) Catalog 12-052 - MIL-DTL-22992 QWLD Connectors (on-line at www.amphenol-aerospace.com) Catalog 12-053 - QWL Connectors (currently not on-line; consult Amphenol Aerospace for hardcopy)
3. Consult Amphenol, Sidney, NY with the pertinent cable, contact, insert arrangement and connector style choices for complete connector part number.

* Amphenol also offers the following other MIL-DTL-5015 Circular Connectors which are threaded coupling

(consult Amphenol Industrial for availability of shielded contacts in any of these series):

- Amphenol®/Matrix® MIL-DTL-5015 with crimp rear releasable and rear insertable contacts. (See Matrix 5015 section of this catalog)
- Amphenol® MIL-DTL-5015 Modifications (Ask for Industrial Catalog 12-021)
- Amphenol® GT Series with reverse bayonet coupling (Ask for Catalog 12-024)
- Amphenol® AC Threaded and AC-B Bayonet Series (Ask for Industrial Catalog 12-025)

NOTE:

- MIL-DTL-5015 supersedes MIL-C-5015
- MIL-DTL-22992 supersedes MIL-C-22992



MS/Standard MIL-DTL-5015 Type Connectors



Heavy Duty QWLD, MIL-DTL-22992 Connectors

38999
III II I SJT

26482
Matrix 2

83723 III
Matrix Pyle

5015
Crimp Rear Release Matrix

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

Fiber Optics

High Speed
Contacts

Options
Others

- 38999
SJT I II III
- 26482
Matrix 2
- 83723 III
Matrix Pyle
- 5015
Crimp Rear
Release Matrix
- 26500 Pyle
- Printed
Circuit Board
- EMI Filter
Transient
- Fiber Optics
- High Speed
Contacts
- Options
Others

Amphenol® Coaxial Contacts can be incorporated into MS/Standard MIL-DTL-5015 Type Circular Connectors and Heavy Duty MIL-DTL-22992 Connectors. They offer the same durability advantages and design benefits for reliable interconnection as the Amphenol coax contacts used in high performance D38999 connectors. A variety of military and commercial shielded cables are accommodated within these circular series.

Other features of the coax contacts available for MS/Standard and Heavy Duty circulars include:

- Several insert arrangements that can incorporate:
 - Size 4, 8 and 12 coax contacts
- Advanced shielding wire technology in a rugged military connector
- Single connector with multiple coaxial connection eliminates cross-mating
- Positive contact captivation - especially important in these series with its much higher coupling/uncoupling force
- Older shielded cable type availability



Coax Contact, Pin
 for use in MS/Standard MIL-DTL-5015 and
 Heavy Duty MIL-DTL-22992 Connectors



Coax Contact, Socket
 for use in MS/Standard MIL-DTL-5015 and
 Heavy Duty MIL-DTL-22992 Connectors

TYPICAL ELECTRICAL PERFORMANCE

Size 4, 8 & 12 Contacts
 Contact Resistance:
 Center @ 1 Amp, 170 millivolts max. voltage drop @ 25°C
 Outer @ 12 Amps, 150 millivolts max. voltage drop @ 25°C
 Dielectric Withstanding Voltage:
 Size 4 & 8: 1,300 VAC Rms @ sea level
 Size 12: 1,000 VAC Rms @ sea level
 Size 4, 8 & 12: 250 VAC Rms @ 50,000 ft.
 Insulation Resistance
 5,000 megohms minimum @ 25°C

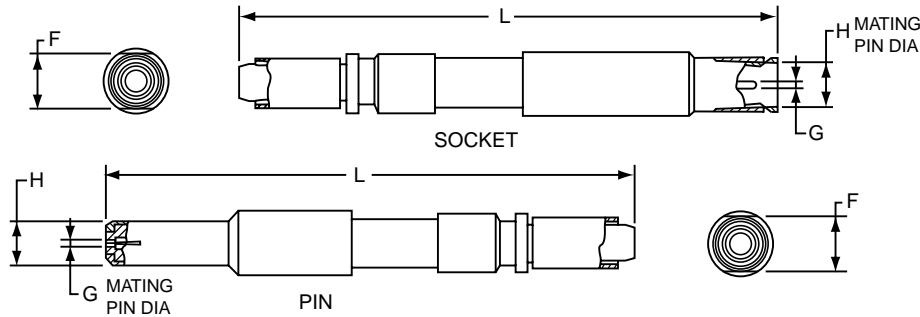
All contacts in these series are non-impedance matched contacts.

Part numbers 21-33063-XX() and 21-33064-XX() are moisture seal design (internal O-ring).

CONTACT FINISHES:

Suffix	Finish
1	0.00020 min. silver over copper flash
2	0.00005 min. gold (Knoop hardness 130-200) over silver
3	0.00010 min. gold (Knoop hardness 130-200) over silver
4	0.00010 min. gold (Knoop hardness 130-200) over copper
5	0.00005 min. gold (Knoop hardness 130-200) over nickel
E	0.00005 min. gold (Knoop hardness 90 max.) over copper
F	0.00005 min. gold (Knoop hardness 130-200) over copper
H	0.00010 min. gold (Knoop hardness 130-200) over copper

Coaxial Contacts for MIL-DTL-5015, Heavy Duty MIL-DTL-22992 Application Data



NOTE: All contacts of the same size and the same inner and outer contact diameters (G & H) will mate with each other.

COAX CONTACTS For use in MS/Standard MIL-DTL-5015 Type and Heavy Duty MIL-DTL-22992 Type Connectors													
Cable	Contact Part Number (See L-650 Termination Instruction Sheet for all contacts listed below)**		Contact Size	Finish on Mating Parts (See Pg. 42)	Dimensional Data (See Drawings above)				Crimp Ferrule Tools			Retainer Nut Wrench	
	Pin	Socket			G Dia.	H Dia. ± 0.001	F Across Flats ± 0.004	L Length Ref. Pin Socket		MIL-T-22910/7-1 Tool Use with Die Part Number	MIL-T-22520/5-01 Tool Use with Die Part Number		MIL-T-229520/10-01 Tool Use with Die Part Number
RG-58C/U, RG-141A/U, RG-303/U	21-33014-1	21-33013-1	8	5	0.0355 ± 0.0010	0.218	0.280	1.481	1.511	M22910/7-15 (B)	M22520/5-05 (B) M22520/5-41 (B)	M22520/10-07 (B)	11-8676-2
	21-33034-2	21-33033-2	8	1									
	21-33048-2	21-33047-2	8	††									
	21-33016-5	21-33015-5	8	3									
	21-33130-2()	21-33129-2()	8	***									
RG-59B/U, RG-62A/U, RG-62B/U, RG-210/U	21-33014-5	21-33013-5	8	5	0.0355 ± 0.0010	0.218	0.280	1.481	1.511	M22910/7-18 (B)	M22520/5-45 (B)		11-8676-3
	21-33016-2	21-33015-2	8	3									
	21-33034-5	21-33033-5†	8	1									
	21-33130-5()	21-33129-5()	8	***									
	21-33064-21()	21-33063-21()	8	***									
21-33060-10()	21-33059-10()	4	***	0.0400 ± 0.0010	0.344	0.375	1.669	1.605				11-8676-4	
RG-161/U, RG-174A/U, RG-179B/U, RG-187A/U, RG-188A/U, RG-316/U	21-33014-3	21-33013-3	8	5	0.0355 ± 0.0010	0.218	0.280	1.481	1.511	M22910/7-12 (B)	M22520/5-03 (A) M22520/5-08 (A) M22520/5-35 (B)	M22520/10-05 (A)	11-8676-2
	21-33016-1	21-33015-1	8	3									
	21-33034-3	21-33033-3	8	1									
	21-33130-3()†	21-33129-3()†	8	***									
	21-33064-20()†	21-33063-20()†	8	***									
21-33014-21	21-33013-21	12	5	0.0200 ± 0.0005	0.128	0.172						11-8676-1	
21-33034-1	21-33033-1	12	1										
21-33048-1	21-33047-1	12	***										
21-33130-1()†	21-33129-1()†	12	***										
RG-178B/U, RG-196A/U	21-33014-22†	21-33013-22†	12	5	0.0200 ± 0.0005	0.128	0.172	1.481	1.511	M22910/7-11 (B)	M22520/5-03 (B) M22520/5-33 (B)	M22520/10-05 (B)	11-8676-1
RG-180B/U, RG-195A/U	21-33014-6	21-33013-6	8	5	0.355 ± 0.0010	0.218	0.280	1.481	1.511	M22910/7-15 (B)	M22520/5-05 (B) M22520/5-41 (B)	M22520/10-07 (B)	11-8676-2
	21-33034-6†	21-33033-6†	8	1									
	21-33048-3	21-33047-3	8	***									
	21-33130-6()†	21-33129-6()	8	***									
RG-212/U	21-33060-11()	21-33059-11()	4	***	0.0625 ± 0.0010	0.344	0.375	1.669	1.605	M22910/7-14 (A)	M22520/5-39 (A)		11-8676-4
RG-140/U, RG-302/U	21-33014-8	21-33013-8	8	5	0.0355 ± 0.0010	0.218	0.280	1.481	1.511	M22910/7-17 (B)	M22520/5-05 (A) M22520/5-19 (B)	M22520/10-07 (A)	11-8676-2
	21-33034-8	21-33033-8	8	1									
	21-33130-8()†	21-33129-8()†	8	***									
RG-55B/U, RG-142A/U, RG-142B/U, RG-223/U	21-33014-4	21-33013-4	8	5	0.0355 ± 0.0010	0.218	0.280	1.481	1.511	M22910/7-17 (B)	M22520/5-05 (A) M22520/5-19 (B)	M22520/10-07 (A)	11-8676-2
	21-33034-4	21-33033-4	8	1									
	21-33130-4()	21-33129-4()	8	***									
	21-33060-12()	21-33059-12()	4	***									

CONTACT ORDERING: Example number given in chart 21-33014-1 should be ordered as 21-033014-001; example number 21-33014-21 should be ordered as 21-033014-021. Adding Zeros is necessary for Amphenol ordering process on all contact numbers. ***See finish options for MS/Standard and Heavy Duty contacts listed on page 408. Replace the parenthesis of the contact part number with the finish suffix number. However, you should consult Amphenol Aerospace regarding the availability of all finish choices for each part number.

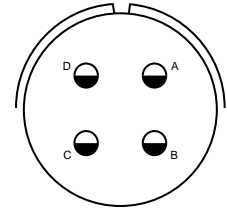
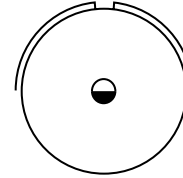
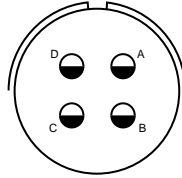
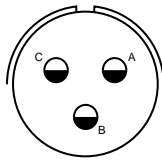
† Consult Amphenol Aerospace for current availability of this contact. CRIMPING TOOLS: Italicized letters in parenthesis that follow positioner part numbers indicate applicable die closure. Commercial equivalents with the same die closure dimension may be used. †† 21-33047-X and 21-33048-X are supplied with E (soft gold) finish on mating socket parts, and F (hard gold) finish on mating pin parts.

**Termination instruction sheet L-650 can be found on-line at: www.amphenol-aerospace.com/serviceinstructions.asp

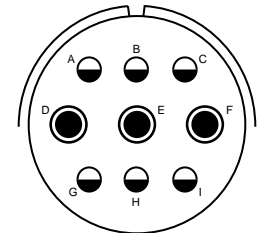
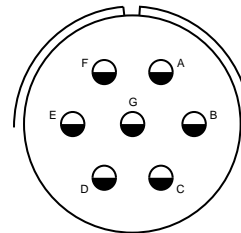
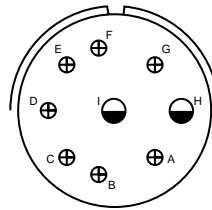
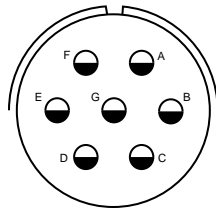
38999
SJT
26482
Matrix 2
83723 III
Matrix Pyle
5015
Crimp Rear Release Matrix
26500 Pyle
Printed Circuit Board
EMI Filter Transient
Fiber Optics
High Speed Contacts
Options Others

Incorporating Coax Contacts

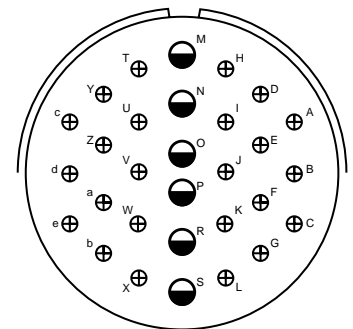
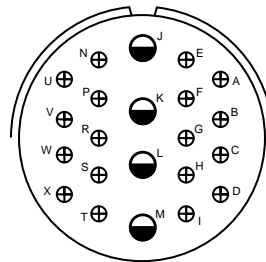
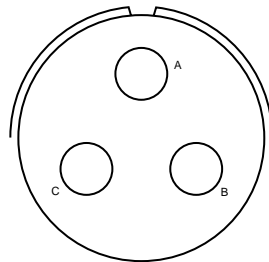
Front face of pin inserts illustrated



Insert Arrangement	16-10	18-10	18-16	20-4
Connector Series	MS/Standard, QWLD, QWL	MS/Standard, QWLD, QWL	MS/Standard, QWLD, QWL	MS/Standard, QWLD, QWL
Service Rating	A	A	C	D
Number of Contact	3	4	1	4
Contact Size	12	12	12	12



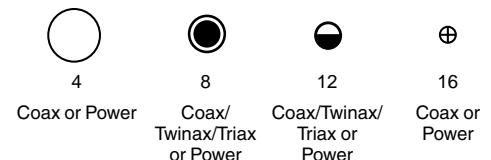
Insert Arrangement	20-15	20-16	24-2	24-11
Connector Series	MS/Standard, QWLD, QWL	MS/Standard, QWLD, QWL	MS/Standard, QWLD, QWL	MS/Standard, QWLD, QWL
Service Rating	A	A	D	A
Number of Contact	7	2 7	7	3 6
Contact Size	12	12 16	12	8 12



Insert Arrangement	28-6	28-11	32-8
Connector Series	MS/Standard, QWLD, QWL	MS/Standard, QWLD, QWL	MS/Standard, QWLD, QWL
Service Rating	D	A	A
Number of Contact	3	4 18	6 24
Contact Size	4	12 16	12 16

The insert arrangements shown on this page represent the most readily available patterns within the MIL-DTL-5015 and MIL-DTL-22992 Series. If you require other arrangements than what are shown here, consult Amphenol for further availability. MS/Standard connectors have over 200 insert pattern arrangements available, and within these patterns any size 4, 8 or 12 contact cavities can be incorporated with coax contacts. However, you need to consult Amphenol, Sidney NY for availability and ordering information. All coax contacts in the Standard and Heavy Duty series come pre-installed in connectors.

CONTACT LEGEND



- 38999 SJT I II III
- 26482 Matrix 2
- 83723 III Pyle Matrix
- 5015 Crimp Rear Release Matrix
- 26500 Pyle
- Printed Circuit Board
- EMI Filter Transient
- Fiber Optics
- High Speed Contacts
- Options Others

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

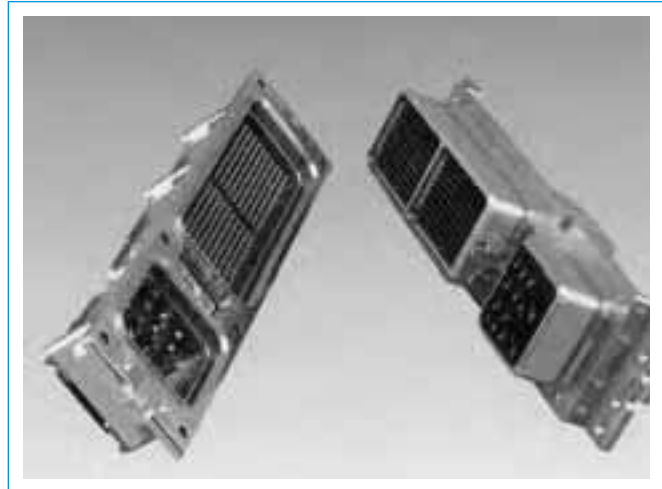
See Amphenol Canada Publication SL-379, ARINC 600 Rack and Panel Connectors for complete information.

- 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



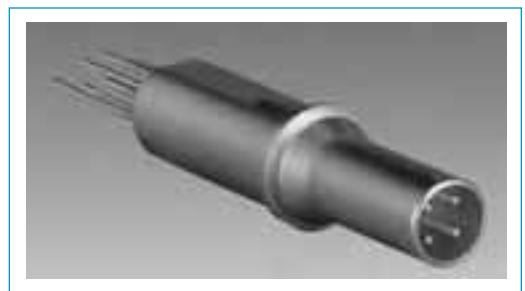
ARINC 600 Rack and Panel Connectors are high density connectors that can incorporate high speed shielded contacts



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 II I SJT

26482
Matrix 2

83723 III
Matrix Pyle

5015
Crimp Rear Release Matrix

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

Fiber Optics

High Speed
Contacts

Options
Others

38999 SJT I II III
 26482 Matrix 2
 83723 III Pyle
 Matrix
 5015 Crimp Rear Release Matrix
 26500 Pyle
 Printed Circuit Board
 EMI Filter Transient
 Fiber Optics
 High Speed Contacts
 Options Others

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, 24443/9P025X-4(LD), S280W502-4, 24443/03130X-4(LD)	21-33382-21 (L-2119-AH)	21-33383-21 (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	21-33382-31 (L-2119-I)	21-33383-31 (L-2119-I)	100			
Draka Fileca F-4704-5, NF22Q100	21-33382-101 (L-2119-AS)†	21-33383-101 (L-2119-AS)†	100			
JSFY02-1	21-33382-71 ↑	21-33383-71 ↑	110			
Tensolite 26473/02006X-4(LD), Gore RCN8328	21-33382-61 (L-2119-L)	21-33383-61 (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	21-33378-21 (L-2119-G)	21-33379-21 (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	21-33378-31 (L-2119-G)	21-33379-31 (L-2119-G)	100			
ASNE0272TK24	21-33378-41 (L-2119-G)	21-33379-41 (L-2119-G)	100			
Tensolite 24463/9P025X-2(LD)	21-33378-51 ↑	21-33379-51 ↑	100			
GC875TM24H	21-33378-61 (L-2119-AU)	21-33379-61 (L-2119-AU)	77			
	21-33378-71 ↑	21-33379-71 ↑	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	21-33676-1 (L-2090-B)	21-33675-1 (L-2090-A)	8	M22520/2-01 with Positioner K1275	M22520/10-01 with Die Set M22520/10-05 (A)
RG-179	21-033476-001	21-033475-001			
5M2869-001	21-33676-2 ↑	21-33675-2 ↑			

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)		21-33397- 171	100	8
PCB (.473 Length)	21-33398- 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	21-33631-4† (L-2092-U)†	21-33632-3 (L-2092-J)	12	MH992 with Positioner K1365	GS200-1 with Positioner GP959

CONTACT ORDERING: Example number given in chart 21-33382-21 should be ordered as 21-033382-021; example number 21-33382-101 should be ordered as 21-033382-101. Adding Zeros is necessary for Amphenol ordering process on all contact numbers.
 † 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

Amphenol has today's broadest range of interconnection solutions for military, commercial and industrial applications. As a worldwide interconnection product leader, Amphenol can meet not only connector needs, but also contact needs of all types. In addition to the shielded and high frequency contacts shown in this publication, Amphenol offers many other contact styles:

PRINTED CIRCUIT BOARD SIGNAL AND POWER CONTACTS

See the Printed Circuit Board section of this catalog.

THERMOCOUPLE CONTACTS

Available for MIL-DTL-5015, MIL-DTL-22992, MIL-DTL-26482, MIL-DTL-26500, MIL-DTL-38999, MIL-DTL-83723 and other series connectors. Thermocouples are designed for temperature measuring applications, and are available in both pin and socket configurations in alumel, chromel, iron and constantan materials. Please refer to the mil series sections in this catalog.

FLEX TERMINATION ASSEMBLIES FOR PCB APPLICATION

Flex circuits are available for MIL-DTL-38999, MIL-DTL-5015 and MIL-DTL-26482, as well as for special products such as EMI/EMP filter connectors and rectangular LRM connectors. Please contact an Amphenol Sales Person for more information or visit www.amphenol-aerospace.com/support to find a sales person in your area.

FIBER OPTIC TERMINI

See the Fiber Optic section of this catalog

FILTER PITYPE TUBULAR AND PLANAR ARRAY CONTACT ASSEMBLIES

See the Printed Circuit Board section of this catalog.

RADSOK® HIGH POWER CONTACTS

Amphenol's RADSOK® contact design is a hyperbolic, stamped grid configuration within the socket cylinder. As the male pin is inserted, axial members in the female socket half deflect, imparting high current flow across the connection with minimal voltage loss. Another advantage of the RADSOK® contact is low insertion force. The RADSOK® contact has been incorporated into three of the large industrial families of connectors; the GT series, the P-Lok series and 5015 types. These connectors, known as Amphe-Power® connectors, can handle up to 150% higher amperages. Amphenol Industrial Operations division also provides a wide range of power to board interconnects utilizing the RADSOK® technology. These provide high amperage connection to busbars, wires and circuit boards.

RADSOK® contacts are being further introduced into military/aerospace products. High power RADSOK® is now developed into applications for engine connectors for Commercial Air, and are also being designed into LRM interconnects for high speed data transfer. See Amphenol Industrial Brochure, SL-391. (visit www.amphenol-industrial.com)

See more information on RADSOK® in options, other products section of this catalog pages 419-421.

RECTANGULAR CONNECTORS

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, tele-communications, military and commercial aviation, military ground vehicles, GPS systems, space and industrial applications.

Available in Low Mating Force with Brush contacts, Power Strip, LRM, ARINC 600 Rack and Panel, and R27 Rack and Panel Rectangular Connectors.

For more information please contact an Amphenol Sales Person on visit www.amphenol-aerospace.com/support for a sales person in your area.



PC Tails Signal and Power Contacts and Custom PC Tail Designs. Compliant Pin (Press Fit) Contacts for Solderless Mounting to PC Boards



Sculptured Flex Circuits



RADSOK® High Power Contacts and Connectors



LRM Connectors with Inserts of Staggered Brush Contacts and Inserts of Coax Contacts

III
II
I
SJT
38999

Matrix 2
26482

Matrix
Pyle
83723 III

Crimp Rear
Release Matrix
5015

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

Fiber Optics

High Speed
Contacts

Options
Others

38999
SJT I II III

26482
Matrix 2

83723 III
Matrix Pyle

5015
Crimp Rear
Release Matrix

26500 Pyle

Printed
Circuit Board

EMI Filter
Transient

Fiber Optics

High Speed
Contacts

Options
Others

Date _____

Amphenol Salesperson _____

The following check list is provided to help you specify a high frequency contact and cable system, and it will help our design team to meet your requirements. You may copy this page and fax it to Amphenol Aerospace 607-563-5157, attention Contact Design. Or call 607-563-5011 or 800-678-0141 for assistance.

CUSTOMER INFORMATION

Customer Company Name _____

Engineer Name _____

Program _____

Forecast _____

CONNECTOR INFORMATION

Connector Family: TV-R LJT-R JT-R

Other _____

Insert Arrangement Desired _____

Shell Style _____

Shell Plating _____

CABLE INFORMATION

Cable Part Number* _____

Cable Manufacturer _____

Cable Type: Coaxial Twinax

Triax Quadrax

Cable Impedance _____

CONTACT INFORMATION

Type: Coaxial Concentric Twinax Triax

Differential Twinax* Quadrax*

Size*: 8 12 16

Contact Impedance Matched? Yes No

50Ω 75Ω 100Ω 150Ω Other _____

* Quadrax and Differential Twinax currently available in size 8 only.

* if not an RG-Number complete below information:

O.D. of Inner Wire _____ AWG of Inner Wires _____

No. of Inner Wire Strands _____ Material of Inner Wires _____

O.D. of Inner Insulation _____ Material of Inner Insulation _____

O.D. of First Braid _____ Braid Type _____ Braid AWG _____
(flat, round, wrap)

O.D. of First Jacket _____ Jacket Material _____

O.D. of Second Braid _____ Braid Type _____ Braid AWG _____
(flat, round, wrap)

O.D. of Second Jacket _____ Jacket Material _____

It is essential that a 3 foot sample of the cable be supplied for performance and crimp tool development.

PERFORMANCE INFORMATION

Electrical Protocol _____

VSWR Requirement 1. to 1. _____ Cross Talk _____ db

Operating Frequency _____ Attenuation _____ Insertion Loss _____

Operating Voltage _____ VAC (RMS) _____ DC

Current Outer Contact _____ Amp Current Inner Contacts _____ Amp

Application Temperature _____ Environmental Requirement _____