PEI-Genesis™

AVIATION / AEROSPACE CONNECTOR
SELECTION GUIDE

WHEN THE DESIGN MATTERS
PEI-Genesis DELIVERS

QUALITY

You need to protect your customers' and your brand's reputation by using the highest quality products.

EXPERTISE

You're the expert in your products; let us be the expert for your interconnects.

SPEED

In your world, you need products quickly without any lost production time.

VALUE-ADD

Enjoy better access to the brands you trust. We provide manufacturing capabilities with distribution flexibility.

PEI-Genesis maintains an AS9100D and ISO 9001:2015 certified quality management system at its corporate headquarters in Philadelphia, PA, and at production facilities in South Bend, IN; Chandler, AZ; Southampton, UK, and Zhuhai, China.

COMMERCIAL AVIATION

CLEARED FOR TAKEOFF

PEI-Genesis has a wide range of high reliability, harsh environment connectors to solve any problem, regardless of the demands of the application.

THE KEY CONNECTIONS:

EN2997 / ESC 10

EN4165

EN3646 /
MIL-C-26482 S II

Micro-D

Luminus

EN3545

Hermetic
(38999, EN2997, EN3646)

ARINC 600

369

EN3645 /
MIL-DTL-38999 S III

D-Subs

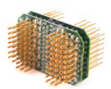
Grounding Modules

MILITARY AVIATION

MISSION CRITICAL SOLUTIONS

From standard military parts to customized connector and cable solutions, PEI-Genesis delivers when it matters the most.

THE KEY CONNECTIONS:



FilConn Filter

EN4165

SMP

SMA

EN3645 /
MIL-DTL-38999 S III

EN3646 /
MIL-C-26482 S II

High Speed Quadrax

Hermetic
(38999, EN2997, EN3646)

EN2997 / ESC10

Stand-off

Grounded 38999

Grounding Modules

SPACE

READY FOR LAUNCH

PEI-Genesis offers a number of products in Hermetic, Fiber, and Lanyard Release options, making your applications space ready.

THE KEY CONNECTIONS:

DBAS

Space-grade 38999

Fiber Optic

Hermetic
(38999, EN2997, EN3646)

Space-grade D-Sub

Space-grade Micro-D

High Speed Quadrax

Lanyard Release

EN3645 /
MIL-DTL-38999 S III

Nano Microminiature

SMP

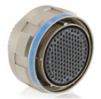
SMA

CONNECTOR SELECTOR

	38999			
	LJT	JT	TV-CTV	SJT
				
	AMPHENOL	AMPHENOL	AMPHENOL	AMPHENOL
Features and Benefits	Shielded Interconnect Utilizes High-Quality Military Contacts Corrosion Resistant	Low-Profile Connector Design High-Density Connectors Operates at Extreme Temperatures	High Reliability Self-Locking Connector Systems Contact Protection, Scoop Proof	Quick Mating Shielded Interconnect Qualified to JAN1003 Corrosion Resistant
Hermetic	Available	Available	Available	Available
RoHS Compliant	✓	✓	✓	✓
Wire Gauge Range	24 to 12 AWG	28 to 12 AWG	28 to 8 AWG	28 to 12 AWG
Number of Circuits	2 to 128	2 to 128	1 to 187	1 to 128
EMI/RFI-Shielding	Available	Available	Available	Available
Style	Circular	Circular	Circular	Circular
Operating Voltage	2,300 VAC	2,300 VAC	2,300 VAC	2,300 VAC
Current Rating (Amps)	23	23	46	23
Power & Signal on Same Layout	Available	Available	Available	Available
Operating Temperature	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C
Type of Coupling	Bayonet	Bayonet	Tri-Start Threaded	Bayonet
Life in Mating Cycles (min.)	500	500	500 / 1,500	500
Shell Material	Aluminum Alloy or Stainless Steel	Aluminum Alloy or Stainless Steel	Aluminum Alloy, Stainless Steel, Marine Nickel Aluminum Bronze, or Composite	Aluminum Alloy
Shell Plating	Cadmium, Electroless Nickel, Anodized, Black Zinc Nickel, or Passivated	Cadmium, Electroless Nickel, Anodized, Black Zinc Nickel, or Passivated	Cadmium, Electroless Nickel, Anodized, Black Zinc Nickel, or Durmalon	Cadmium, Electroless Nickel, Anodized, or Zinc Cobalt
Positive Shell Polarization	Available	Available	Available	Available
Insert Polarization Options	No	No	No	No
Standards/Associated Specs.	MIL-DTL-38999 Series I	MIL-DTL-38999 Series II	MIL-DTL-38999 Series III, EN3645, BACC63CU / CT, BACC63DC / DB	JAN1003
Contact Plating	Gold	Gold	Gold	Gold
Contact Type	Crimp, PCB, Coax, or Fiber Optic	Crimp, PCB, Coax, or Fiber Optic	Crimp, PCB, Coax, or Fiber Optic	Crimp, PCB, Coax, or Fiber Optic

	38999				
	KJL	KJ	KJB	DJT	DTS
					
	ITT CANNON	ITT CANNON	ITT CANNON	TE DEUTSCH	TE DEUTSCH
Features and Benefits	Quick Mating Shielded Interconnect Corrosion Resistant Full Metal Contact Retention Clips	High Reliability Low-Profile Connector Design Lightweight Operates at Extreme Temperatures	High Reliability EMI Shielding Protection Utilizes High-Quality Military Contacts High-Density Connectors	High Reliability EMI / RFI Shielding Protection High-Density Connectors Self-Locking Connector System	High Reliability EMI / RFI Shielding Protection High-Density Connectors Contact Protection, Scoop Proof
Hermetic	No	No	No	Available	Available
RoHS Compliant	✓	✓	✓	✓	✓
Wire Gauge Range	28 to 12 AWG	28 to 12 AWG	28 to 12 AWG	24 to 12 AWG	28 to 8 AWG
Number of Circuits	3 to 128	3 to 128	3 to 128	3 to 128	1 to 128
EMI/RFI-Shielding	Available	Available	Available	Available	Available
Style	Circular	Circular	Circular	Circular	Circular
Operating Voltage	2,300 VAC	2,300 VAC	2,300 VAC	2,300 VAC	2,300 VAC
Current Rating (Amps)	23	23	23	23	46
Power & Signal on Same Layout	Available	Available	Available	Available	Available
Operating Temperature	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C	-67°F to 392°F -55°C to 200°C	-67°F to 392°F -55°C to 200°C
Type of Coupling	Bayonet	Bayonet	Tri-Start Threaded	Bayonet	Tri-Start Threaded
Life in Mating Cycles (min.)	500	500	500	500	500 / 1,500
Shell Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy or Composite	Aluminum Alloy	Aluminum Alloy or Stainless Steel
Shell Plating	Cadmium or Electroless Nickel	Cadmium or Electroless Nickel	Cadmium or Electroless Nickel	Cadmium or Electroless Nickel	Cadmium, Electroless Nickel, or Black Zinc
Positive Shell Polarization	Available	Available	Available	Available	Available
Insert Polarization Options	No	No	No	No	No
Standards/Associated Specs.	D38999 Style Series I	D38999 Style Series II	D38999 Style Series III	MIL-DTL-38999 Series I	MIL-DTL-38999 Series III
Contact Plating	Gold	Gold	Gold	Gold	Gold
Contact Type	Crimp, PCB, Coax, or Fiber Optic	Crimp, PCB, Coax, or Fiber Optic	Crimp, PCB, Coax, or Fiber Optic	Crimp, Solder (Hermetic only), PCB, Coax, or Fiber Optic	Crimp, Solder (Hermetic only), PCB, Coax, or Fiber Optic

CONNECTOR SELECTOR

	38999				38999			26482	
	ACT	8LT	8T	8D	Space-Grade	AE1	AE3	PT/PTSE	62 GB
									
	TE DEUTSCH	SOURIAU	SOURIAU	SOURIAU	SOURIAU	CONESYS	CONESYS	AMPHENOL	AMPHENOL
Features and Benefits	EMI / RFI Shielding Protection High-Density Connectors Contact Protection, Scoop Proof Lightweight	High Contact Density EMI / RFI Shielding and Shell to Shell Continuity Resistance to Hydraulic Fluids	30% Shorter Than 38999 Series I Withstand Up to 500 Hrs. of Salt Spray Support up to 128 Contacts	EMI / RFI Shielding Protection Qualified to D38999, EN3645 & BACC63 Quick Screw Coupling with Self Locking Mechanism	ESCC 3401 Quick Mating & Robust Scoop-Proof Solution	Raised moisture barriers around each pin Closed-Entry Socket Insert Superior Contact Stability	Metal-to-Metal Bottoming Scoop-Proof Design Firewall Capability	VG 95328 Rugged Shell Solder or Crimp Gold-Plated Contacts	Based on MIL-DTL-26482 BS 9522 F0017 Rugged Shell Solder Gold-Plated Contacts Optional Key Way Positions
Hermetic	No	No	No	Available	Available	Available	Available	Available	Available
RoHS Compliant	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wire Gauge Range	28 to 8 AWG	28 to 4 AWG	28 to 12 AWG	28 to 4 AWG	28 to 4 AWG	24 to 12 AWG	28 to 8 AWG	24 to 12 AWG	24 to 8 AWG
Number of Circuits	2 to 128	1 to 128	3 to 128	1 to 128	1 to 128	2 to 128	1 to 187	1 to 61	2 to 61
EMI/RFI-Shielding	Available	Available	Available	Available	Available	Available	Available	Available	Available
Style	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Operating Voltage	2,300 VAC	900 VAC	900 VAC	900 VAC	2,300 Vrms	2,300 VAC	2,300 VAC	1,000 VAC / 5kv	1,500 VAC
Current Rating (Amps)	46	1.5 to 80	23	1.5 to 80	5 to 80	23	46	23	45
Power & Signal on Same Layout	Available	Available	Available	Available	Available	Available	Available	Available	Available
Operating Temperature	-67°F to 392°F -55°C to 200°C	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C	-85°F to 392°F -65°C to 200°C	-67°F to 257°F -55°C to 125°C	-67°F to 257°F -55°C to 125°C
Type of Coupling	Tri-Start Threaded	Bayonet	Bayonet	Tri-Start Threaded	Threaded	Bayonet	Tri-Start Threaded	Bayonet	Bayonet
Life in Mating Cycles (min.)	500 / 1,500	500	500	500 / 1,500	500	500	500 / 1,500	500	500
Shell Material	Composite	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy, Stainless Steel, Titanium, Marine Bronze, or Composite	Aluminum Alloy	Aluminum Alloy or Stainless Steel	Aluminum Alloy, Stainless Steel, Marine Nickel Aluminum Bronze, or Composite	Aluminum Alloy	Aluminum Alloy, Brass, or Stainless Steel
Shell Plating	Cadmium or Electroless Nickel	Olive Drab Chromate over Cadmium, Nickel, Black Zinc Nickel, or Green Zinc Cobalt	Olive Drab Chromate over Cadmium, Nickel, Black Zinc Nickel, or Hard Anodized	Olive Drab Chromate over Cadmium, Nickel, Black Zinc Nickel, or Green Zinc Cobalt	Dull Low Reflective Electroless Nickel Plated, Burr Free	Cadmium, Electroless Nickel, Anodized, Black Zinc Nickel, or Passivated	Cadmium, Electroless Nickel, Anodized, Black Zinc Nickel, or Durmalon	Cadmium, Anodized, Electroless Nickel, Zinc Alloy, or Gray Zinc Nickel	Green Zinc Cobalt, Black Zinc Cobalt, Black Zinc Nickel, Cadmium, Anodized, Electroless Nickel, or Zinc Alloy
Positive Shell Polarization	Available	Available	Available	Available	Available	Available	Available	Available	Available
Insert Polarization Options	No	No	No	No	No	No	No	Available	Available
Standards/Associated Specs.	MIL-DTL-38999 Series III, EN3645	MIL-DTL-38999 Series I, HE308	MIL-DTL-38999 Series II, HE309	MIL-DTL-38999 Series III, BACC63CU / CT, BACC63DC / DB, EN3645	ESA/ESCC 3401 Qualified MIL-DTL-38999 Qualified	MIL-DTL-38999 Series I	MIL-DTL-38999 Series III, EN3645, BACC63CU / CT, BACC63DC / DB	MIL-DTL-26482 Series I, UL #E115497, VG95328 or HE301	BS 9522 F0017
Contact Plating	Gold	Gold	Gold	Gold	Gold Over Nickel	Gold	Gold	Gold	Gold
Contact Type	Crimp, PCB, Coax, or Fiber Optic	Crimp, PCB, or Coax	Crimp, PCB, or Thermocouple	Crimp, PCB, or Coax	Crimp	Crimp, PCB, Coax, or Fiber Optic	Crimp, PCB, Coax, or Fiber Optic	Crimp, Solder, PCB, Coax, or High Voltage	Crimp, Solder, or PCB

CONNECTOR SELECTOR

	26482			
	MB	KPT	KPSE	PV
				
	AMPHENOL	ITT CANNON	ITT CANNON	ITT CANNON
Features and Benefits	High Quality Contact System Rear Contact Insertion and Release System Cork-in-a-Bottle Interfacial Seal System Broad Operating Temperatures	MIL-DTL-26482 VG95328 Resistant to Military Environments Wide Range of Current-Carrying Capability	MIL-DTL-26482 VG95328 Resistant to Military Environments Wide Range of Current-Carrying Capability	Full Military Temperature Range Rugged Shell Standard Shielding Interface: EMI / RFI Shielding Protection Resilient Insulator and Grommet
Hermetic	Available	Available	Available	Available
RoHS Compliant	✓	✓	✓	✓
Wire Gauge Range	24 to 12 AWG	24 to 16 AWG	24 to 16 AWG	24 to 12 AWG
Number of Circuits	3 to 61	2 to 61	3 to 61	3 to 61
EMI/RFI-Shielding	Available	Available	Available	Available
Style	Circular	Circular	Circular	Circular
Operating Voltage	2,300 VAC	1,000 VAC	1,000 VAC	1,000 VAC
Current Rating (Amps)	23	13	13	23
Power & Signal on Same Layout	Available	Available	Available	Available
Operating Temperature	-67°F to 392°F -55°C to 200°C	-67°F to 257°F -55°C to 125°C	-67°F to 257°F -55°C to 125°C	-67°F to 392°F -55°C to 200°C
Type of Coupling	Bayonet	Bayonet	Bayonet	Bayonet
Life in Mating Cycles (min.)	500	500	500	500
Shell Material	Aluminum Alloy or Stainless Steel	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Shell Plating	Cadmium, Anodized, Electroless Nickel, Zinc Alloy, or Passivated	Cadmium, Electroless Nickel, or Black Zinc Cobalt	Cadmium, Electroless Nickel, or Black Zinc Cobalt	Cadmium, or Electroless Nickel
Positive Shell Polarization	Available	Available	Available	Available
Insert Polarization Options	Available	Available	Available	Available
Standards/Associated Specs.	MIL-DTL-26482 Series II	MIL-DTL-26482 Style Series I	MIL-DTL-26482 Style Series I, VG95328	MIL-DTL-26482 Style Series II
Contact Plating	Gold	Gold	Gold	Gold
Contact Type	Crimp, Solder, PCB, Coax, or Thermocouple	Solder, PCB, or Thermocouple	Crimp or Thermocouple	Crimp, PCB, Thermocouple, Coax, or Fiber Optic

26482			5015	
851	AFD	AE7	BACC 5015	CT/MS–E/F/R
				
SOURIAU	TE DEUTSCH	CONESYS	AMPHENOL	ITT CANNON
Rotational Blindmate Error Correction Sequential Mating Mechanically Keyed Housing	Full Military Temperature Range Rugged Shell Standard Shielding Interface: EMI / RFI Shielding Protection Resilient Insulator and Grommet	Full Military Temperature Range Rugged Shell Standard Shielding Interface: EMI / RFI Shielding Protection Resilient Insulator and Grommet	Boeing Certified Front-Release Crimp Contacts Sealed to Withstand Moisture	Full Military Temperature Range Rugged Shell Standard Shielding Interface: EMI / RFI Shielding Protection Resilient Insulator and Grommet
Available	Available	Available	No	No
✓	✓	✓	✓	✓
24 to 16 AWG	24 to 12 AWG	24 to 12 AWG	20 to 4 AWG	26 to 0 AWG
2 to 61	3 to 61	3 to 61	2 to 9	1 to 65
Available	Available	Available	Available	Available
Circular	Circular	Circular	Circular	Circular
600 VAC	2,300 VAC	2,300 VAC	1,250 VAC	1,750 VAC
13	23	23	80	150
Available	Available	Available	Available	Available
-67°F to 257°F -55°C to 125°C	-67°F to 392°F -55°C to 200°C	-67°F to 392°F -55°C to 200°C	-67°F to 257°F -55°C to 125°C	-67°F to 257°F -55°C to 125°C
Bayonet	Bayonet	Bayonet	Threaded	Threaded
500	500	500	100	100
Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Cadmium, Black Zinc Nickel, Black Anodize, Electroless Nickel	Cadmium, Black Anodized, or Electroless Nickel	Cadmium, Black Anodized, or Electroless Nickel	Black Cadmium	Cadmium Electroless Nickel, Blue Zinc Nickel, or Black Zinc Cobalt
Available	Available	Available	Available	Available
Available	Available	Available	Available	Available
MIL-DTL-26482 Series I (Solder Only)	MIL-DTL-26482 Series II	MIL-DTL-26482 Series II	BACC63CE, BACC63CD	MIL-DTL-5015
Gold, Gold / Tin	Gold	Gold	Gold	Silver or Gold
Crimp, Solder, PCB, or Thermocouple	Crimp,Solder (Hermetic Only), PCB, Thermocouple, Coax, or Fiber Optic	Crimp,Solder (Hermetic Only), PCB, Thermocouple, Coax, or Fiber Optic	Crimp	Crimp, Solder, PCB, Thermocouple, or High Voltage

CONNECTOR SELECTOR

	EN2997		EN3545	EN3646
	983	853	1900	FDBA
				
	TE DEUTSCH	SOURIAU	AMPHENOL	TE DEUTSCH
Features and Benefits	High Reliability EMI Shielding Protection Operates at Extreme Temperatures Rolls Royce ESC Standards	High Temperature Firewall Self Locking Coupling Mechanism EMI and Lighting Resistance Rolls Royce ESC Standards	36 Key Way Combinations Lightweight and Robust Thermoplastic Commercial Aerospace Specification for Rectangular Connectors	Developed from the NAS1599B Specification Bayonet Coupling Requiring Only a 1/3 Turn to Mate Fully
Hermetic	Available	Available (Series 8533)	No	Available
RoHS Compliant	✓	✓	✓	✓
Wire Gauge Range	24 to 12 AWG	24 to 4 AWG	26 to 8 AWG	24 to 12 AWG
Number of Circuits	3 to 61	1 to 61	5 to 78	1 to 61
EMI/RFI-Shielding	Available	Available	No	Available
Style	Circular	Circular	Rectangular	Circular
Operating Voltage	2,300 VAC	1500 Vrms	1500V	2300V
Current Rating (Amps)	23	7.5 to 80	5 to 50	7.5 to 23
Power & Signal on Same Layout	Available	Available	Available	No
Operating Temperature	up to 500°F up to 260°C	-85°F to +500°F -65°C to +260°C	-67°F to 347°F -55°C to 175°C	-67°F to + 392°F -55°C to + 200°C
Type of Coupling	Threaded	Threaded	Screw Lock	Bayonet
Life in Mating Cycles (min.)	250 / 500	250	100	500
Shell Material	Aluminum Alloy or Stainless Steel	Aluminum, Stainless Steel	Thermoplastic	Aluminum
Shell Plating	Cadmium, Anodized, or Electroless Nickel	Nickel, Olive Green Cadmium, Black Anodized, Passivated	-	Black Anodize, Nickel or Cadmium
Positive Shell Polarization	Available	No	Available	No
Insert Polarization Options	Available	Available	No	Available
Standards/Associated Specs.	EN2997, BACC63CN, BACC63CM, ESC Qualified	EN299, ESC Qualified	EN3545	EN3646, MIL-C-26482 S II
Contact Plating	Gold	Gold	-	Gold
Contact Type	Crimp or Solder (Hermetic Only)	Crimp, Thermocouple, or Quadrax	Crimp, Solder, PCB, or Quadrax	Crimp, or Quadrax

EN3646	EN4165			
8525	SIM	ARINC 809	DMC	DMC-MD
				
SOURIAU	AMPHENOL	AMPHENOL	TE DEUTSCH	TE DEUTSCH
EMI / RFI Shielding Protection High-Density Connectors Contact Protection, Scoop Proof	Fully Qualified to EN4165 Small Footprint and Versatility Ability to Upgrade Modules	Lightweight and Robust Thermoplastic 20 Different Inserts	Fully Qualified to EN4165 36 keying possibilities Compact solution	Lightweight Composite Color and Mechanical Coded EN4165 and BACC Approved
Available	No	No	No	No
✓	✓	✓	✓	✓
24 to 12 AWG	28 to 8 AWG	26 to 8 AWG	28 to 8 AWG	26 to 8 AWG
1 to 61	1 to 80	1 to 20	1 to 80	1 to 30
Available	Available	Available	Available	Available
Circular	Rectangular	Rectangular	Rectangular	Rectangular
2300 Vrms	1,800V	1800V	1,800V	1500 Vrms
7.5 to 23	5 to 80	5 to 80	5 to 80	3 to 46
No	Available	No	Available	Available
-85°F to + 392°F -65°C to +200°C	-67°F to 347°F -55°C to 175°C	-67°F to 347°F -55°C to 175°C	-67°F to 347°F -55°C to 175°C	-67°F to 347°F -55°C to 175°C
Bayonet	Push-Pull Thumbscrews	Push-Pull	Push-Pull Thumbscrews	Push-Pull
500	500	500	500	500
Aluminum, Stainless Steel	Aluminum alloy	Composite	Aluminum alloy	Composite
Black Anodized, Nickel, Olive Green Cadmium, Yellow Cadmium, or Passivated	Black Nickel, Bright Nickel, or Olive Drab Cadmium	Nickel	Black Nickel, Bright Nickel, or Olive Drab Cadmium	Nickel
No	Available	Available	Available	Available
Available	Available	Available	Available	Available
EN3646, MIL-C-26482 S II	BACC65BU, BACC65CA, BACI10, EN4165	EN4165, ARINC 809	EN4165	EN4165, ARINC 809, BACC65
Gold	Gold	Gold over Nickel	Gold	Gold over Nickel
Crimp, Thermocouple, Quadrax, or PCB	Crimp	Crimp, PCB, Thermocouple, or Fiber Optic	Crimp	Crimp

CONNECTOR SELECTOR

	M24308			MICRO-D
	D-SUB / M24308	D-SUB / M24308-STYLE	D-SUB / M24308	MDSM
				
	AMPHENOL	ITT CANNON	CINCH	ITT CANNON
Features and Benefits	High Reliability & Density PC Tail in both magnetic and non-magnetic options	Clinch Nut and Float Mount Options Wide Range of Accessories	200 or 500 Mating Cycles Optimization of Space UL-Recognized and CSA-Certified	Audible, Visual, and Tactile Confirmation of Mating Intermatable with all VG95234 Connectors Wide Range of Current Carrying Capability
Hermetic	Available	Available	No	Available
RoHS Compliant	✓	✓	✓	✓
Wire Gauge Range	30 to 18 AWG	30 to 18 AWG	30 to 18 AWG	28 to 26 AWG
Number of Circuits	2 to 78	2 to 78	9, 15, 25, 37, 50	9, 15, 25
EMI/RFI-Shielding	Available	Available	Available	Available
Style	Rectangular	Rectangular	Rectangular	Rectangular
Operating Voltage	1,000 Vrms	750 to 1,700 VAC	1,000 VAC	350 VAC
Current Rating (Amps)	7.5	7.5	7.5	2.5
Power & Signal on Same Layout	Available	Available	No	No
Operating Temperature	-67°F to 257°F -55°C to 125°C	-67°F to 257°F -55°C to 125°C	-67°F to 257°F -55°C to 125°C	-67°F to 257°F -55°C to 125°C
Type of Coupling	Screw Lock, Thumbscrews, or Slide Lock	Screw Lock, Thumbscrews, or Slide Lock	Screw Lock, Thumbscrews, or Slide Lock	Push-Pull or Thumbscrews
Life in Mating Cycles (min.)	500	200 / 500	200 / 500	500
Shell Material	Steel / Brass	Aluminum, Stainless Steel, or Brass	Steel	Steel
Shell Plating	Cadmium, Nickel, or Gold	Tin, Cadmium, Zinc, or Gold over Copper	Cadmium, Zinc and Tin	Electroless Nickel
Positive Shell Polarization	Available	Available	No	Available
Insert Polarization Options	No	No	No	No
Standards/Associated Specs.	MIL-DTL-24308G , GSFC 311P	-	MIL-DTL-24308G	-
Contact Plating	Tin / Gold	Tin / Gold	Tin / Gold	Gold
Contact Type	Crimp, Solder , PCB, Thermocouple, Coax, or High Voltage	Crimp, Solder, PCB, Thermocouple, Coax, or High Voltage	Crimp, Solder, or PCB	Crimp, PCB, or Pre-Terminated

MICRO-D				
MDM	HIGH TEMP MICRO-D	MICRO-D	WIRED MICRO-D HIGH TEMP	MICRO-D CIRCUIT
				
ITT CANNON	CINCH	CINCH	ULTI-MATE	ULTI-MATE
Full Military Temperature Range Simple Mating and Unmating High Temp Version Available, Up to 200°C	Full Harnessing Capabilities High Mating Cycles and Better Resistance to Shock and Vibration	MIL-DTL-83513 Twisted Pin Contact Meets Requirements of MIL-C-55302	Low Profile and Standard Profile Series Available in Configurations to Operate at 200°C (393°F) Exceeding Normal Requirements of MIL-DTL-83513	Condensed Footprint Replacement for the MR75 Series Industry Standard Meets Requirements of MIL-DTL-83513
Available	Available	Available	No	No
✓	✓	✓	✓	✓
26 AWG	26 to 25 AWG	26 to 25 AWG	36 to 24 AWG	-
9 to 100	9 to 37	9 to 100	9, 15, 21, 25, 31, 37, 51, 100	9, 15, 21, 25, 31, 37, 51, 100
Available	Available	Available	No	No
Rectangular	Rectangular	Rectangular	Rectangular	Rectangular
600 VAC	600 VAC	600 VAC	900 VAC	900 VAC
3	3	3	3	3
No	No	No	No	Available
-67°F to 257°F -55°C to 125°C	-67°F to 347°F -55°C to 175°C	-67°F to 275°F -55°C to 135°C	-67°F to 392°F -55°C to 200°C	-67°F to 392°F -55°C to 200°C
Screw Lock or Thumbscrews	Screw Lock or Thumbscrews	Screw Lock or Thumbscrews	Screw Lock	Screw Lock
500	500	500	500	500
Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Yellow Chromate over Cadmium, Electroless Nickel, or Black Anodized	Electroless Nickel	Yellow Chromate over Cadmium or Electroless Nickel	Nickel, Cadmium, Black Anodize, or Chem Film	Nickel, Cadmium, Black Anodize, or Chem Film
Available	No	No	Available	Available
No	No	No	No	No
MIL-DTL-83513 Style	MIL-DTL-83513	MIL-DTL-83513	MIL-DTL-83513	MIL-DTL-83513
Gold	Gold	Gold	Gold	Gold
Solder, PCB, Coax, or Pre-Terminated	Solder, PCB, or Pre-Terminated	Solder, PCB, or Pre-Terminated	Solder, or Pre-Terminated	PCB, or Pre-Terminated

CONNECTOR SELECTOR

	MICRO-D	RACK & PANEL		26500
	MICRO-D COMBO	RNJ - Rack & Panel	ARINC 600	OMEGA/C48
				
	ULTI-MATE	AMPHENOL	ITT CANNON	CINCH
Features and Benefits	Meets Requirements of MIL-DTL-83513 Twisted Pin Contact Meets Requirements of MIL-C-55302	Very Lightweight vs ARINC 404 or 600 Blind Mate Connection 100% Scoop-Proof	Blind Mate Low Insertion Force Modular Solution Up to 800 signal contacts	Qualified to MIL-DTL-26500 Lightweight, Aluminum and Environmentally Sealed High Reliability
Hermetic	No	No	No	No
RoHS Compliant	✓	✓	✓	✓
Wire Gauge Range	36 to 16 AWG	28 to 4 AWG	26 to 12 AWG	24 to 12 AWG
Number of Circuits	Various	1 to 128	800	2 to 61
EMI/RFI-Shielding	No	Available	Available	No
Style	Rectangular	Circular	Rectangular	Circular
Operating Voltage	900 VAC	2300 Vrms	300 VAC	1,500 VAC
Current Rating (Amps)	10	5 to 100	2 to 23	7.5, 13, 23
Power & Signal on Same Layout	Available	Available	Available	Available
Operating Temperature	-67°F to 392°F -55°C to 200°C	-85°F to +392°F -65°C to +200°C	-85°F to +257°F -65°C to +125°C	-67°F to 392°F -55°C to 200°C
Type of Coupling	Screw Lock	Rack & Panel	Rack & Panel	Bayonet or Threaded
Life in Mating Cycles (min.)	500	500	500	200 - 500
Shell Material	Aluminum Alloy	Aluminum	Aluminum	Stainless Steel and Aluminum
Shell Plating	Nickel, Cadmium, Black Anodize, or Chem Film	Olive Drab Cadmium, or Electroless Nickel	Alodine 1200, or Nickel	Electroless Nickel, Cadmium Over Nickel, or Anodized
Positive Shell Polarization	Available	No	Available	Available
Insert Polarization Options	No	No	No	No
Standards/Associated Specs.	-	Derived from MIL-DTL- 38999 Series III	ARINC 600	MIL-DTL-26500
Contact Plating	Gold	Gold	Gold	Gold
Contact Type	PCB, Coax, or Pre-Terminated	Crimp, or PCB	Crimp, Solder, PCB Coax, Twinax, Triax, or Quadrax	Crimp, Solder, PCB, Coax, or High Voltage

26500	MICRO-MINIATURE CIRCULAR			
AE6	2M	SCE2 / TERRAPIN	MKJ	MIKQ
				
CONESYS	AMPHENOL	AMPHENOL	ITT CANNON	ITT CANNON
Qualified to MIL-DTL-26500 Sealing to prevent moisture and contaminants Closed-entry socket contacts facilitate positive mating	52% Smaller Than MIL-DTL-38999 71% Weight Saving Compared to MIL-DTL-38999	Superior EMC Performance Environmental Sealing to IP68 2,000 Plus Matings Waterproof	Contacts Meet MIL-C-39029 Specifications Well Suited for Harsh Environments High-Density of Contacts	Push-Pull Coupling High-Density .050" Spacing Fully Potted Wires for Sealing and Strain Relief Front and Rear Panel Mounting
No	Available	No	No	No
✓	✓	✓	✓	✓
24 to 12 AWG	20 to 12 AWG	30 to 24 AWG	28 to 12 AWG	26 to 25 AWG
2 to 61	1 to 130	7 to 37	2 to 85	7, 19, 37
No	Available	Available	Available	Available
Circular	Circular	Circular	Circular	Circular
1,500 VAC	1,800 VAC	400 VAC	1,800 VAC	600 VAC
7.5, 13, 23	20	23	20	3
Available	Available	Available	Available	No
-67°F to 392°F -55°C to 200°C	-67°F to 392°F -55°C to 200°C	-67°F to 257°F -55°C to 125°C	-67°F to 392°F -55°C to 200°C	-67°F to 257°F -55°C to 125°C
Bayonet or Threaded	Push-Pull, Bayonet, Dual-Lead Threaded, or Triple-Lead Threaded	Push-Pull	Push-Pull, Bayonet, Triple & Dual-Lead Threaded	Push-Pull
200 - 500	250 / 2,000	200	250 / 2,000	500
Stainless Steel and Aluminum	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Brass
Electroless Nickel, Cadmium Over Nickel, or Anodized	Black Anodized, Electroless Nickel, Cadmium, Durmalon Passivated, or Zinc-Nickel (Black or Green)	Black-Silver	Black Anodized, Electroless Nickel, Cadmium, Passivated, or Zinc-Nickel (Black or Green)	Electroless Nickel
Available	Available	Available	Available	No
No	Available	Available	Available	No
MIL-DTL-26500	-	-	-	-
Gold	Gold	Gold	Gold	Gold
Crimp, Solder, PCB, Coax, or High Voltage	Crimp, Solder, or PCB	Solder, PCB, or Pre-Terminated	Crimp	Pre-Terminated

CONNECTOR SELECTOR

	MICRO-MINIATURE CIRCULAR	HIGH SPEED	PUSH-PULL	
	MIKM	RJF	B-SERIES	E-SERIES
				
	ITT CANNON	AMPHENOL	LEMO	LEMO
Features and Benefits	Stainless Steel Housings Strong Threaded Coupling System Fully Potted Wires for Sealing and Strain Relief Resilient to Shock and Vibration	Full Military Temperature Range Rugged Shell Standard Shielding Interface: EMI / RFI Shielding Resilient Insulator and Grommet	Secure Push-Pull Self-Latching System Multiple Key Options to Avoid Mismating High Packing Density for Space Savings on Panel	7 Different Sizes Multipole with Stepped Inserts Over 22 Shell Styles UL-Recognized
Hermetic	No	Available	No	No
RoHS Compliant	✓	✓	✓	✓
Wire Gauge Range	26 to 25 AWG	CAT5 / 6E	48 to 6 AWG	48 to 0 AWG
Number of Circuits	7, 55, 85	2 to 79	2 to 64	1 to 106
EMI/RFI-Shielding	Available	Available	Available	Available
Style	Circular	Circular	Circular	Circular
Operating Voltage	600 VAC	-	3000 VAC	3000 VAC
Current Rating (Amps)	3	-	50	230
Power & Signal on Same Layout	No	No	Available	Available
Operating Temperature	-67°F to 257°F -55°C to 125°C	-40°F to 185°F -40°C to 85°C	-67°F to 482°F -55°C to 250°C	-67°F to 392°F -55°C to 200°C
Type of Coupling	Threaded	Push-Pull, Bayonet, or Triple-Lead Threaded	Push-Pull	Push-Pull
Life in Mating Cycles (min.)	500	500	5000	5000
Shell Material	Stainless Steel	Thermoplastic, Aluminum, Marine Bronze, or Stainless Steel	Brass, Aluminum, or Stainless Steel	Brass, or Stainless Steel
Shell Plating	Passivated	Cadmium, Electroless Nickel, Anodized, or Black Alloy	Chrome or Anodize	Chrome or Anodize
Positive Shell Polarization	No	Available	Available	Available
Insert Polarization Options	No	Available	Available	Available
Standards/Associated Specs.	-	-	-	-
Contact Plating	Gold	Gold	Gold	Gold
Contact Type	Pre-Terminated	PCB, Pre-Terminated, or Fiber Optic	Crimp, Solder, PCB, Thermocouple, Coax, Fiber Optic, or High Voltage	Crimp, Solder, PCB, Thermocouple, Coax, or High Voltage

	TV6 SERIES	38999 DERIVATIVES			ADDITIONAL SERIES
	Reduced Flange - RJF	SC39	Stand-off	Lanyard Release	DBAS
					
	AMPHENOL	AMPHENOL	AMPHENOL	AMPHENOL	TE DEUTSCH
Features and Benefits	Smaller: 41% Footprint Surface Reduction Lighter: 15% Lighter than Standard RJF TV Receptacles Anti-decoupling Device (Shell Size 19)	Light, Small and Strong Push-Pull Connector Derived From MIL-DTL-38999 Series III Lanyard Version Available 100% Scoop-Proof	Allow to Fix Directly the Connector to the Board with 3 or 4 Screws Prevents Any Mechanical Stress On The Contacts' Terminations	Instand Decoupling and Damage Free Separation EMI Grounding Fingers Completely Intermatable With Standard Receptacles (D38999/20 and /24)	Leading Clip Preventing Any Accidental Unmating On Demand Double Keying System to Help Prevent Any Cross Connection
Hermetic	No	No	No	No	Available
RoHS Compliant	✓	✓	✓	✓	✓
Wire Gauge Range	-	28 to 8 AWG	-	28 to 10 AWG	30 to 8 AWG
Number of Circuits	-	1 to 187	3 to 128	2 to 128	1 to 61
EMI/RFI-Shielding	Available	Available	Available	Available	Available
Style	Circular	Circular	Circular	Circular	Circular
Operating Voltage	-	2300 Vrms	2300 Vrms	2300 Vrms	2300 VAC
Current Rating (Amps)	-	5 to 100	5 to 23	5 to 60	5 to 46
Power & Signal on Same Layout	No	Available	No	Available	Available
Operating Temperature	-40°F to +185°F -40°C to +85°C	-	-	Up To 392°F Up To 200°C	-67 °F to + 392°F -55°C to + 200°C
Type of Coupling	Threaded	Breakaway	Threaded	Breakaway	Push-Pull
Life in Mating Cycles (min.)	500	1500	500	400	1500
Shell Material	Aluminum	Aluminum, Stainless Steel, Bronze	Aluminum	Aluminum	Aluminum
Shell Plating	Olive Drab Cadmium, Nickel, Black Zinc Nickel	Electroless Nickel, Olive Drab Cadmium, Passivated	Olive Drab Cadmium, Nickel, Black Zinc Nickel	Electroless Nickel, Olive Drab Cadmium	Black Anodised, Olive Drab Chiadmium, Nickel
Positive Shell Polarization	No	Available	Available	Available	Available
Insert Polarization Options	Available	No	No	No	Available
Standards/Associated Specs.	Derived from MIL-DTL- 38999 Series III	Derived from MIL-DTL- 38999 Series III	Derived from MIL-DTL- 38999 Series III	MIL-DTL-38999 Series III	SAE/AS81703 Series III, UTE 93422 Model HE 311
Contact Plating	-	Gold	Tin or Lead free	Gold	Gold over Nickel
Contact Type	RJ45	Crimp, Coax, Twinax, Quadrax	PCB	Crimp, Coax, Quadrax	Crimp

CONNECTOR SELECTOR

	ADDITIONAL SERIES			
	369	Luminus	Pegasus	1750/1765 Grounding Modules
				
	TE DEUTSCH	AMPHENOL	AMPHENOL	AMPHENOL
Features and Benefits	Low-Smoke Composite Materials Color-Coded Keyed Shells Military Standard AS39029 Contacts BACC Approved	Developed to Meet MIL-T-81714 Requirements Blind-Mate Connection AS39029 Contacts (MIL-C-39029) BACC Approved	EMI Shielding 1/4 Turn Bayonet Style Connection Scoop-Proof	High-Density Modular Connections Very High Performance Easy and Fast Installation
Hermetic	No	No	No	No
RoHS Compliant	✓	✓	✓	✓
Wire Gauge Range	28 to 22 AWG	28 to 12 AWG	28 to 12 AWG	26 to 8 AWG
Number of Circuits	3 to 9	1 to 12	2 to 25	6 to 36
EMI/RFI-Shielding	No	No	Available	No
Style	Rectangular	Circular	Circular	Modular
Operating Voltage	1,300 VAC	1,500 VAC	1500 VAC	1500 Vrms
Current Rating (Amps)	5	23	1.5 to 23	5 to 46
Power & Signal on Same Layout	No	Available	No	Available
Operating Temperature	-67°F to 347°F -55°C to 175°C	-85°F to 257°F -65°C to 125°C	-85°F to 257°F -65°C to 125°C	-67°F to 347°F -55°C to +175°C
Type of Coupling	Push / Pull	Twist Lock or Push-Pull	Twist & Lock	Push to Rail
Life in Mating Cycles (min.)	500	50 - PP 500 - TL	100	10
Shell Material	Composite	Polyamide	Polyethermide	Thermoplastic
Shell Plating	-	-	Nickel over Copper	-
Positive Shell Polarization	Available	Available	Available	No
Insert Polarization Options	No	Available	No	No
Standards/Associated Specs.	BACC65CP, BACC65CR	BACC63EDA, BACC63EDB, BACC63EEA, BACC63EEB	-	Derived from EN3708 and NSA937901 standards
Contact Plating	Gold	Gold	Nickel over Copper	Gold
Contact Type	Crimp, or Thermocouple	Crimp	Crimp	Crimp

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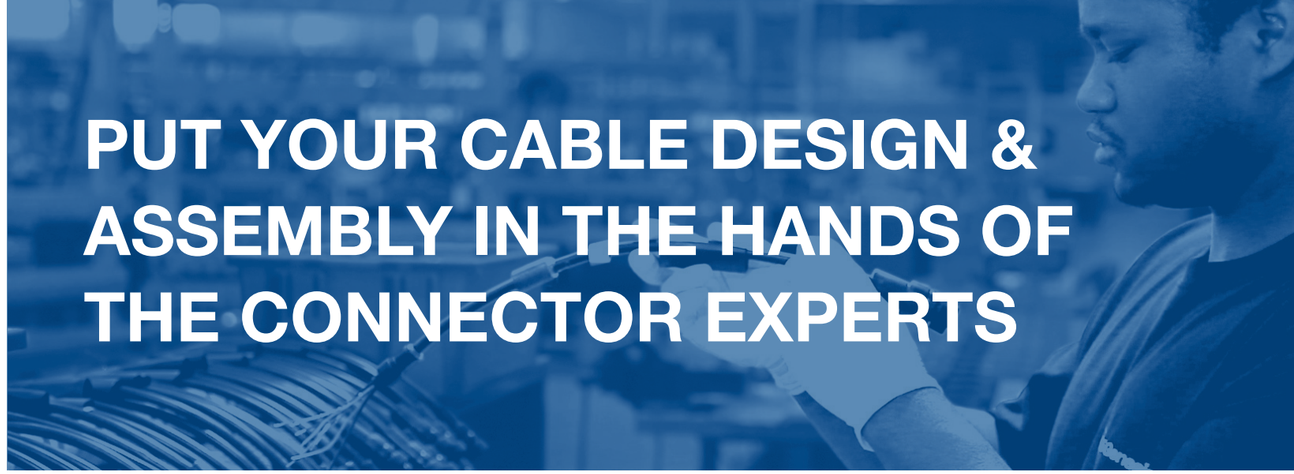

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