

VG96929 Reverse Bayonet Single-Pole Connectors

*High-Current, Low-Voltage Power Connectors
for Ruggedized Military and Industrial Applications*

United States ■ United Kingdom ■ Germany ■ France ■ Nordic ■ Italy ■ Spain ■ Japan

High Voltage Electrical Power Distribution



From 0 to 60 in 3.9 Seconds

High voltage electrical power distribution is a critical component of the 100% electric Tesla Roadster.

The reliable distribution of electrical energy from the car's lithium-ion energy storage system to the vehicle's motor, electronic control module, HVAC system, transmission and regenerative braking unit depends on a high-performance wiring system made up of high-temperature

shielded conduit and ruggedized reverse-bayonet power connectors—all made by Glenair.

Glenair is on the forefront of innovative efforts to advance the reliability and performance of electric vehicles. Glenair power connectors, cables and conduit are deployed in high-voltage power management and distribution applications for systems as demanding as military vehicles—and as fast as the Tesla Roadster.



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www.glenair.com

The Perfect High Current/Low Voltage Single Pole Connector for Industrial Equipment and Military Vehicle Applications.

Harsh Application Environments

Glenair's VG 96929 Reverse Bayonet Unipolar Connectors are used for the transmission of high currents with low voltage such as required by applications on military vehicles and on various industrial equipment. Derived from the VG 95234 Series Connectors and sharing similar mating dimensions and mechanical characteristics, VG 96929 connectors feature unique insulating inserts in two parts (front and rear) that are retained inside the shell by a dynamic spring. Multiple exterior and interior connector o-rings create a watertight seal (1 bar) and the bayonet coupling system helps to prevent accidental unmating caused by vibration.

Rugged Materials

Glenair's VG 96929 connector series is fabricated in aluminum alloy with surface plating IAW QQP-416 Type II Class 3. Easy-to-terminate crimp contacts are made from silver plated copper alloy. The standard insert material is PTFE which provides durable performance in temperature ranges from -55° to +125°C.

Intermateability

Glenair's VG 96929 Reverse Bayonet Power Connector is a version of the familiar threaded coupling MIL-DTL-5015. Glenair's VG 96929 Connector is interchangeable and intermateable with the wide range of industry-standard unipolar reverse bayonet connectors designed around MIL-DTL-5015 and/or qualified to VG 96929.

- **Fast, Easy Bayonet Coupling: 1/4 Turn**
- **Environmental in Mated Condition to 1 Bar**
- **Plug, In-Line, Wall and Box Mount Receptacles**
- **High Shock and Vibration Resistance**
- **Contact Sizes from 25 to 240 sq mm**
- **Audible and Visual Coupling Indicators**
- **Keyed Polarization**
- **Crimp Sleeve/Set Screw Terminations**
- **Intermateable with all VG 96929 Type Reverse Bayonet Connectors**





VG96929 Single Pole Power Connectors Applications

VG96929

Glenair's qualified VG96929 bayonet-lock connector series is based on the VG95234 standard, and shares the same basic shell configuration and shell dimensions. The VG96929 3-point bayonet coupling mechanism provides easy mating and positive locking resistance to vibration, shock, and other connector decoupling forces in high-current, low-voltage applications such as military vehicles, engines and battery chargers.

Component Materials

VG96929 connector shells are available in aluminum alloy and are supplied standard with an olive green cadmium finish IAW QQ-P-416. Supplied crimp contacts are silver plated copper alloy. Insulators are high insulation PTFE: -55°C to +125°C. Gaskets and O-rings are chemical resistant Viton®.

EMI and Environmental Applications

VG96929 Series connectors are perfectly suited for use in rugged applications where EEC compliance directives for electromagnetic compatibility is required. A complete range of EMI shield termination accessories and plug grounding fingers are available for both overall as well as individual wire shields.

Equipped with the appropriate backshells and environmental sealing, the connectors are ready to serve in applications that require resistance to both water and caustic chemicals such as oils and fuels.

Connector Accessories

Many of the VG96929 connectors come already paired with selected backshell accessories for most application requirements. See the accessory descriptions on the opposite page for more information. A full range of additional connector accessories including dust caps and EMI gaskets are also available.

Please contact the factory for additional information or any of our worldwide sales and engineering facilities. Glenair's website, www.glenair.com also has complete information on these products, as well as other ruggedized power and signal connectors.



VG96929 Single Pole Power Connectors Available Components



Introduction
VG96929
Connectors

VG96929 offers a simplified ordering and part number format that combines the standard connector shell styles with the most popular backshells and connector accessories. Available connector shell styles, backshell types and accessories include:

VG96929 Connector Shell Styles

- *Box Mount Receptacle with Accessory Threads*
- *Wall Mount Receptacle with Accessory Threads*
- *Through Bulkhead Receptacle*
- *Straight and 90° Plug Connector with Accessory Threads*
- *In-Line Receptacle*

VG96929 Integrated Backshell Types

Type B1, G and B-03: Shrink Boot Adapter

Types E, F and B-14: Backshell for the termination of EMI shielding and/or shrink boot.

VG96929 Accessories

- *Plug and receptacle protective covers with various lanyard styles for panel attachment*
- *Protective plastic covers*
- *Conductive and non-conductive gaskets for panel mount connectors*
- *Dummy stowage receptacles*

VG96929/Series IGE

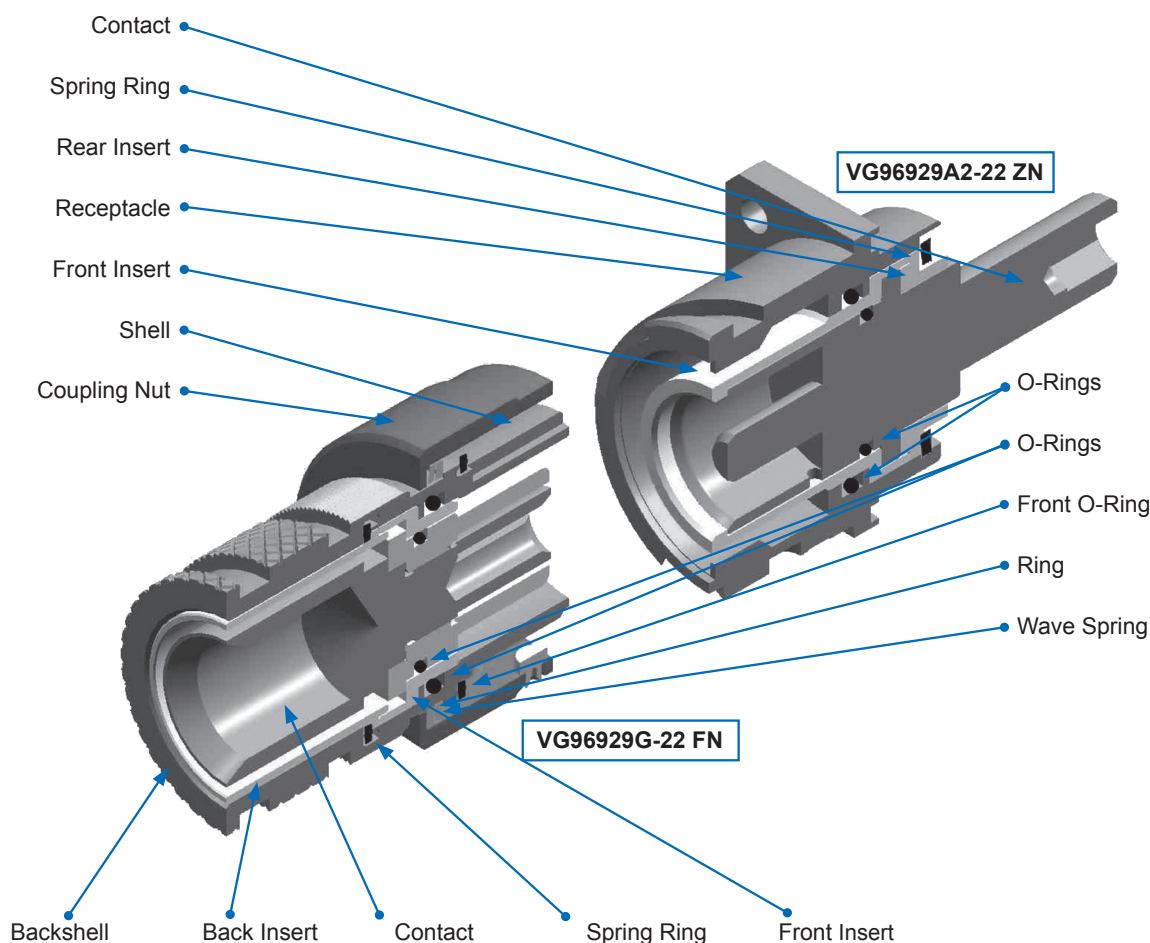
Single Pole Power Connectors

Cross Reference and Exploded View

The Glenair Series IGE connector family is the company's commercial equivalent for the VG qualified products presented in this catalog. Series IGE offers the flexibility of a broader range of connector and backshell assemblies as well as additional plating options and other variations. Customers are advised to select VG96929 versions of this reverse-bayonet connector series when qualification to VG96929 is a requirement. For non-VG applications, customers will appreciate the broader range of options available in the Series IGE.

Connector Cross Reference

VG96929 Connectors	Glenair Series IGE	Glenair Series IGE Marine Bronze
VG96929 A1	IGE 2 E ...B-04	IGE 2 E ...B-04 MB
VG96929 A2	IGE 2 E ...B-16	IGE 2 E ...B-16 MB
VG96929 B1	IGE 0 E ...B-03	IGE 0 E ...B-03 MB
VG96929 C1	IGE 9 E ...X-B	IGE 9 E ...X-B MB
VG96929 C2	IGE 9 EFP ...X-B	IGE 9 EFP ...X-B MB
VG96929 E	IGE 8 E ...B-14	IGE 8 E ...B-14 MB
VG96929 F	IGE 6 E ...B-14	IGE 6 E ...B-14 MB
VG96929 G	IGE 6 E ...B-03	IGE 6 E ...B-03 MB
N.A.	IGE 1 E ...B-03	IGE 1 E ...B-03 MB
N.A.	IGE 1 E ...B-14	IGE 1 E ...B-14 MB
N.A.	IGE 2 EFP ...B-04	IGE 2 EFP ...B-04 MB



VG96929

Single Pole Power Connectors

Technical Data



Technical Characteristics

Insulating Resistance	5000 MΩ min
Water Resistance	1 Bar
Vibration Resistance	200 m/s² 10 to 2000 Hz
Temperature Range	-55°C to 125°C
Mechanical Life	500 Mating Cycles

Coupling Torque (VG95319-2)

Shell Size	Opening and Closing Max	Opening Min
16	5.5 Nm	0.5 Nm
18	8.0 Nm	0.6 Nm
22	11.0 Nm	0.8 Nm
28	17.0 Nm	0.9 Nm
32	19.0 Nm	1.0 Nm

Contact Retention (VG95319-2)

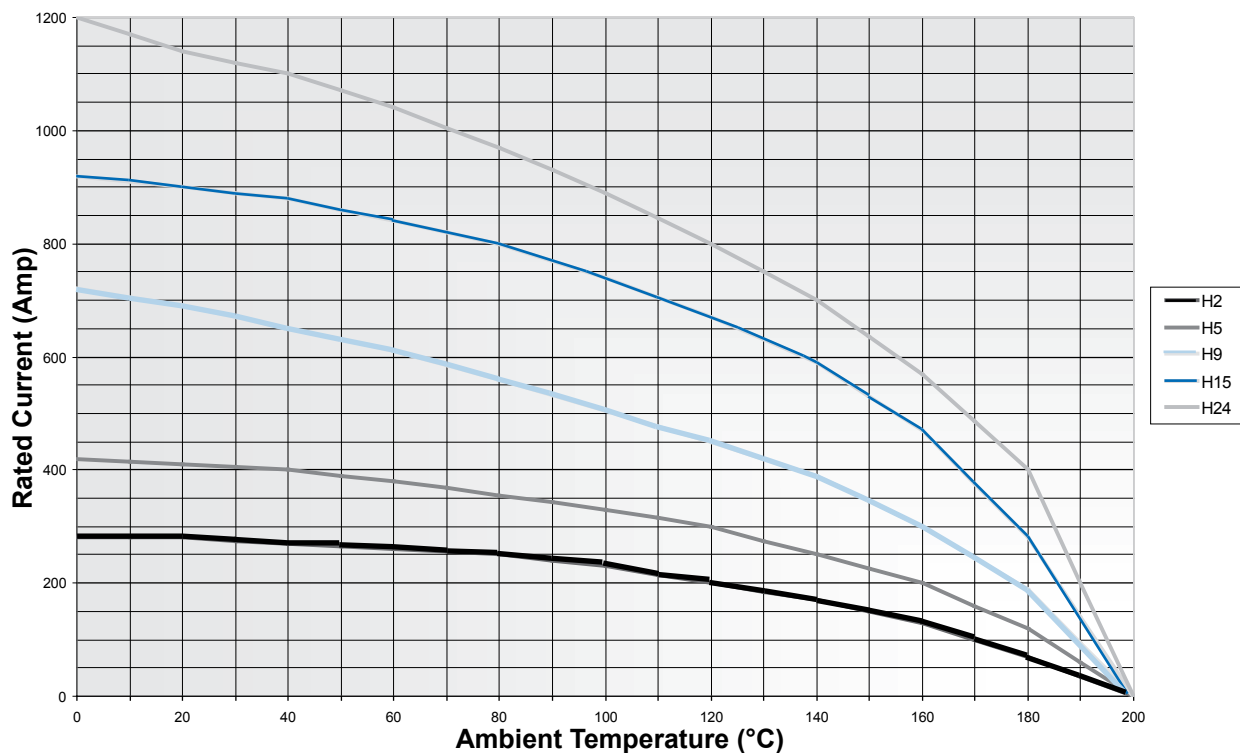
Contact Size	Test Force Min
H2	100 N
H5	120 N
H9	140 N
H15	160 N
H24	200 N

Voltage

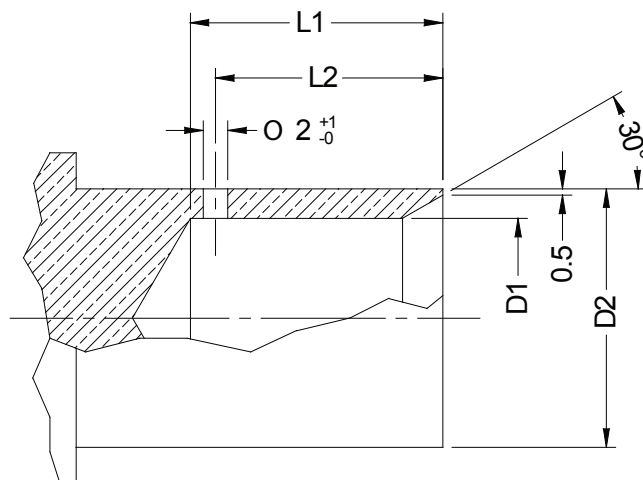
Test Voltage	1050 Vac
Working Voltage	350 Vac
According to MIL-STD-1344	

Contacts

Contact Size	Shell Size	Wire Size	Current Rating at 85°C		Maximum Contact Resistance
			Continuous	Peak per 0.5-1 sec.	
H2	16	25 mm²	225 A	750 A	0.60 mΩ
H5	18	50 mm²	350 A	1,000 A	0.30 mΩ
H9	22	95 mm²	570 A	2,000 A	0.15 mΩ
H15	28	150 mm²	750 A	3,000 A	0.10 mΩ
H24	32	240 mm²	950 A	5,000 A	0.07 mΩ

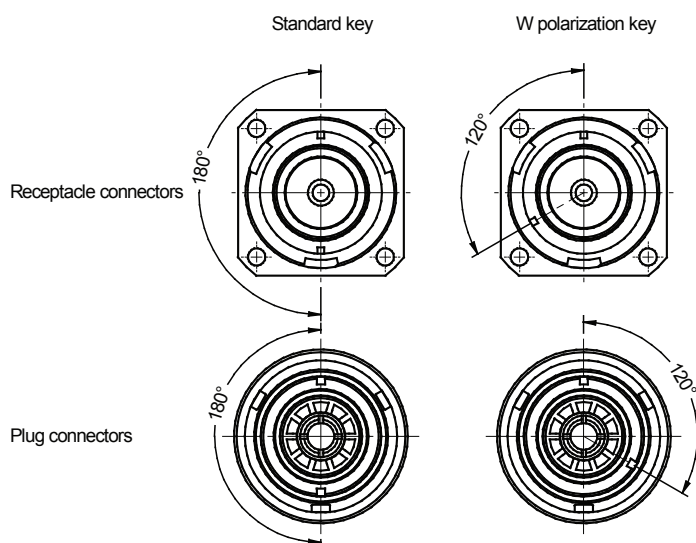


VG96929 Single Pole Power Connectors Contact Dimensions, Crimping Tools and Alternate Keyway Positions



Contact Dimensions and Crimping Tools

Contact Size	Cable mm ²	D1 +0.3 -0	D2 ±0.2	L1 ±0.2	L2	Hydraulic Crimping Tool	Crimping Die
H2	25	7.7	10.9	14.0	11.0	M.112004	M.112020
H5	50	11.2	16.0	15.0	13.0	M.112004	M.112021
H9	95	16.2	21.0	20.5	18.5	M.105013	M.112012
H15	150	20.9	27.0	28.0	25.5	M.105013	M.112018
H24	240	26.8	31.6	30.0	27.0	M.105013	M.112022



Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

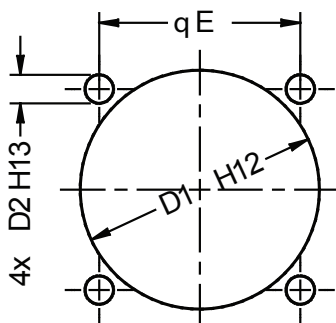
N: 180°

W: 120°

VG96929
Single Pole Power Connectors
Panel Cut-Out and Thickness Dimensions

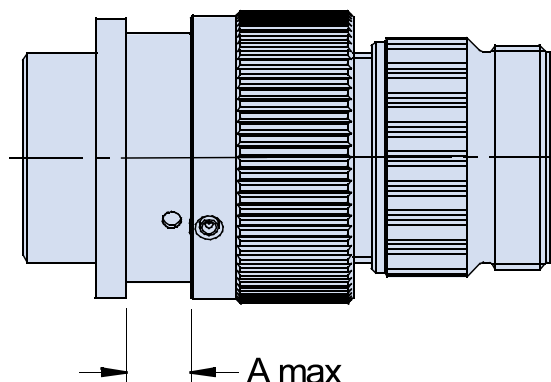


Introduction
 VG96929
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Panel Cut-Out						
Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5

Maximum Panel Thickness

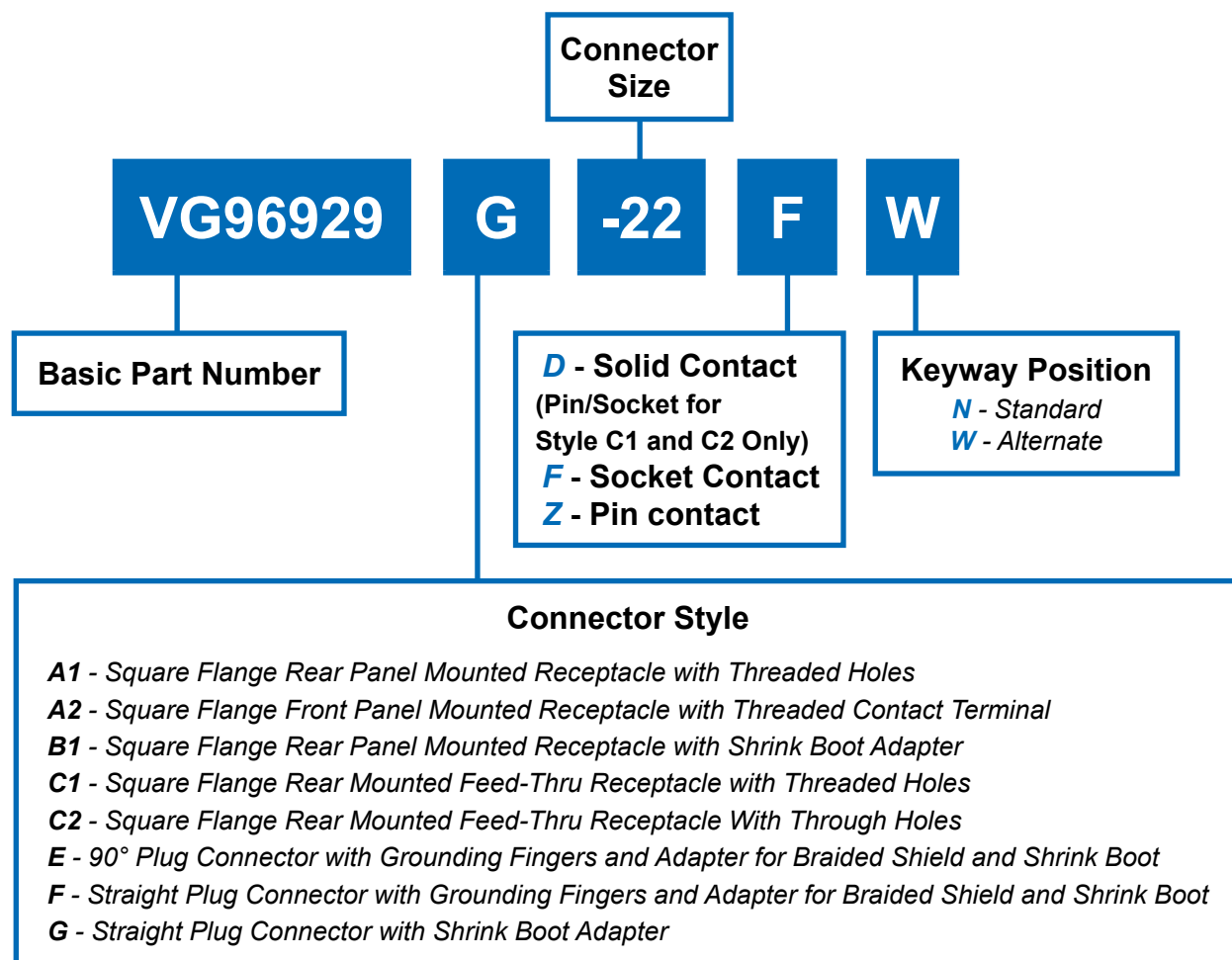


Panel Thickness for Types A1 - A2 - B1					
Shell Size	16	18	22	28	32
A	3.7	3.7	3.7	5.25	6.1

Panel Thickness for Types C1 - C2					
Shell Size	16	18	22	28	32
A	7.2	7.5	7.5	7.5	7.5



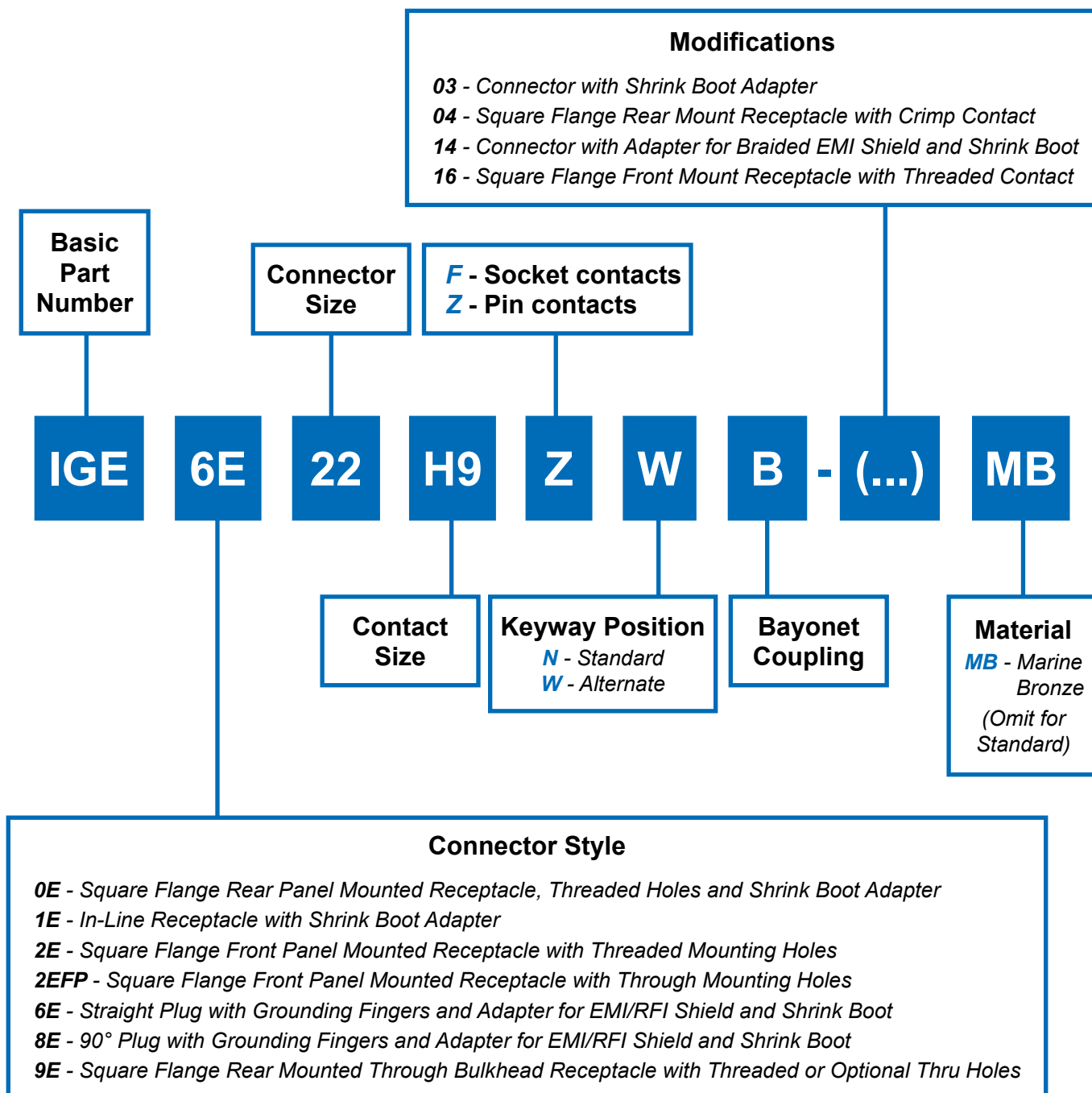
VG96929 Single Pole Power Connectors How to Order



Glenair Series IGE
Commercial Product Line
How to Order

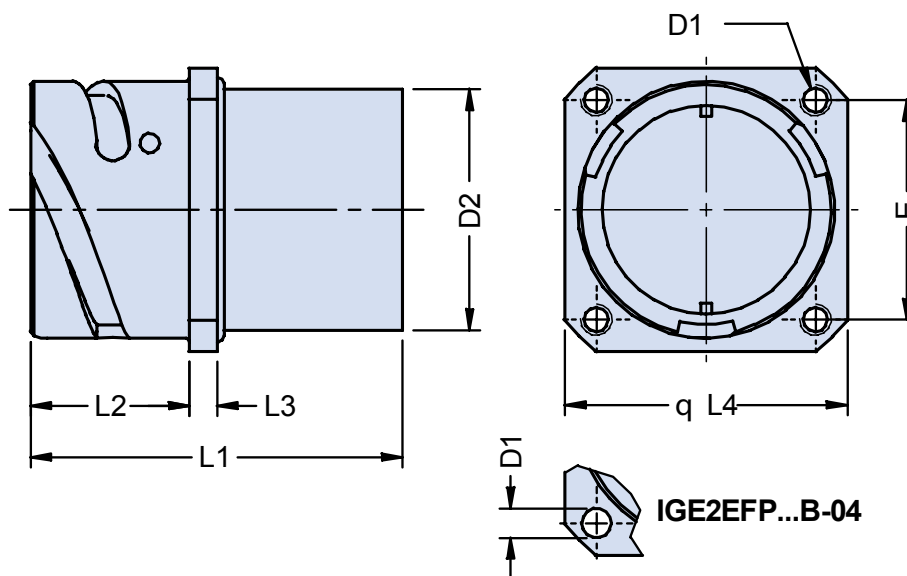
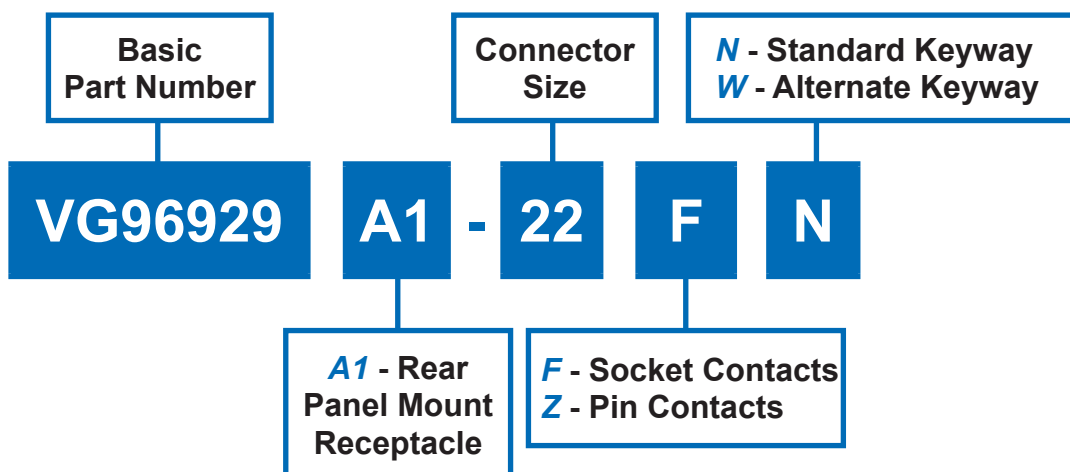


Introduction
 VG96929
 Connectors



VG96929 A1

Square Flange Rear Panel Mount Receptacle



APPLICATION NOTES

1. Rear panel mount square flange receptacle—crimp contacts. Through mounting holes.
2. Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

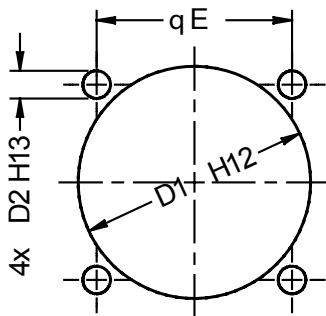
VG96929 A1

Square Flange Rear Panel Mount Receptacle

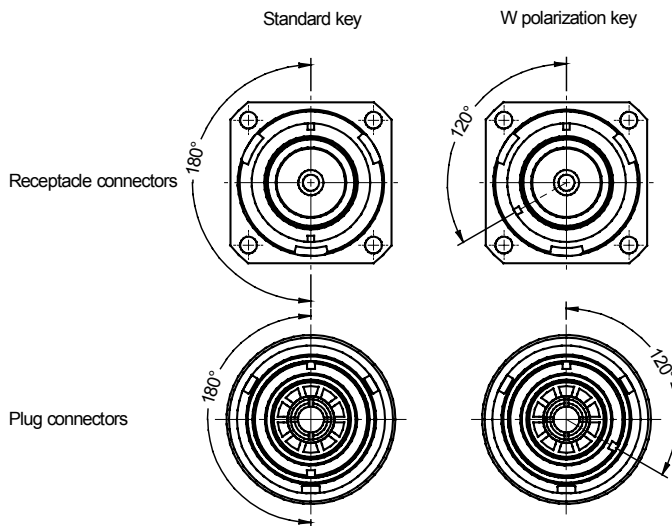


VG96929
Connectors

DIMENSIONS															
Cable mm ²	Size	D1	D2 +0 -0.15	D3 +0 -0.15	E ±0.1	K ±0.2	L1 max	L2 +0.4 -0	L4 ±1.5 (F) (Z)		L5 ±0.3	L6 ±0.3	L7 ±0.3	L8 min	Weight Gr. Max
50	18	M8	26.9	15.0	27.0	3	55	23.05	12.0	12.0	15	10	35.0	12	130
95	22	M12	33.2	18.7	31.8	6	66	23.05	13.5	12.0	25	8	41.0	22	165
150	28	M12	42.8	27.0	39.7	6	62	24.05	12.0	12.0	20	8	50.8	16	320
240	32	M16	49.2	31.7	44.5	8	78	28.90	14.0	14.0	30	8	57.0	27	370



Panel Cut-Out						
Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5

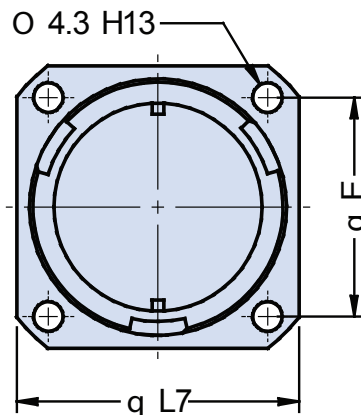
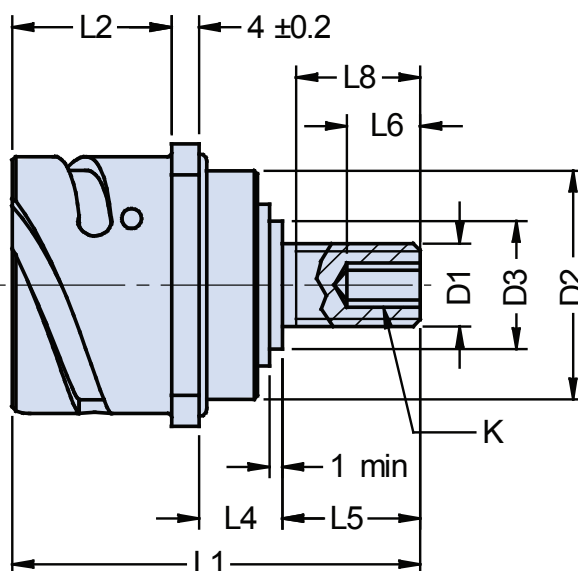
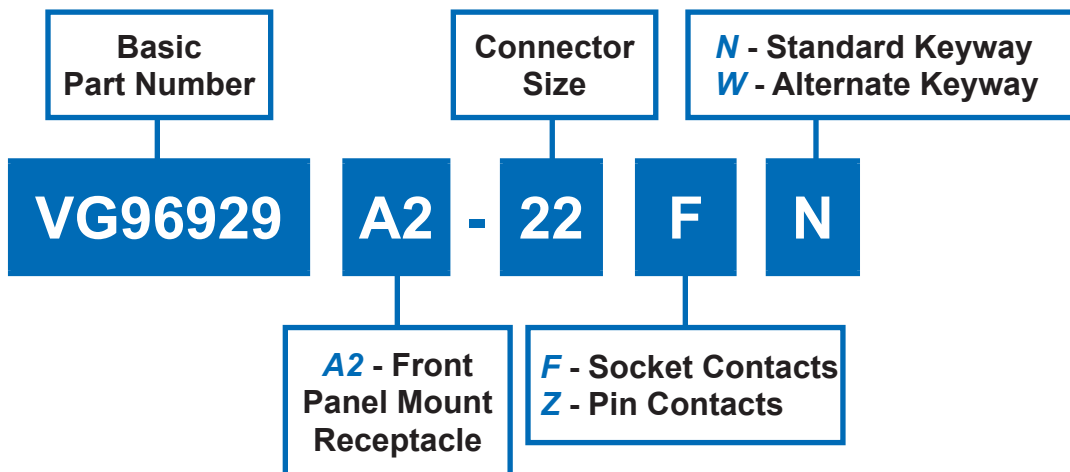


Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°
W: 120°

VG96929 A2
Square Flange Front Panel Mount Receptacle
with Set Screw Termination



APPLICATION NOTES

1. Front panel mount square flange receptacle—with set screw termination. Through mounting holes.
2. Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH
(For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

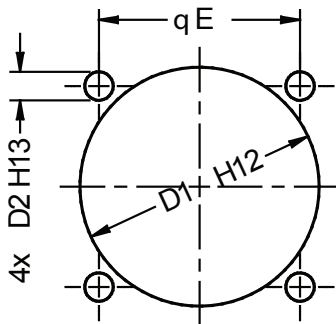
VG96929 A2

Square Flange Front Panel Mount Receptacle with Set Screw Termination

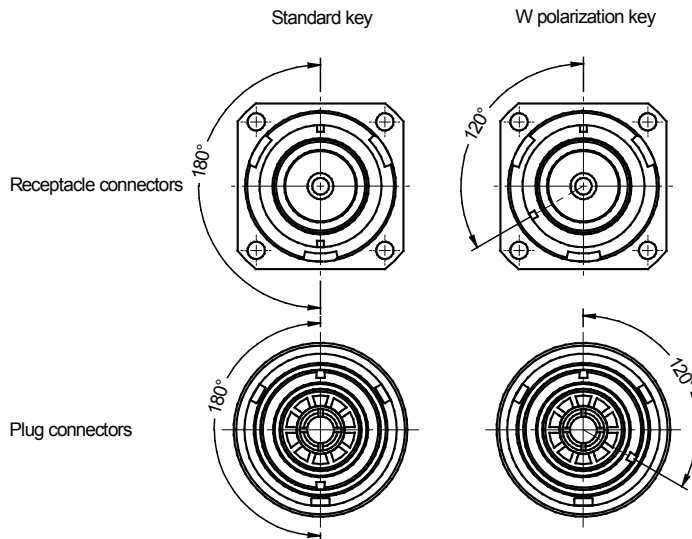


VG96929
Connectors

DIMENSIONS															
Cable mm ²	Size	D1	D2 +0 -0.15	D3 +0 -0.15	E ±0.1	K ±0.2	L1 max	L2 +0.4 -0	L4 ±1.5 (F) (Z)		L5 ±0.3	L6 ±0.3	L7 ±0.3	L8 min	Weight Gr. Max
50	18	M8	26.9	15.0	27.0	3	55	23.05	12.0	12.0	15	10	35.0	12	130
95	22	M12	33.2	18.7	31.8	6	66	23.05	13.5	12.0	25	8	41.0	22	165
150	28	M12	42.8	27.0	39.7	6	62	24.05	12.0	12.0	20	8	50.8	16	320
240	32	M16	49.2	31.7	44.5	8	78	28.90	14.0	14.0	30	8	57.0	27	370



Panel Cut-Out						
Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5



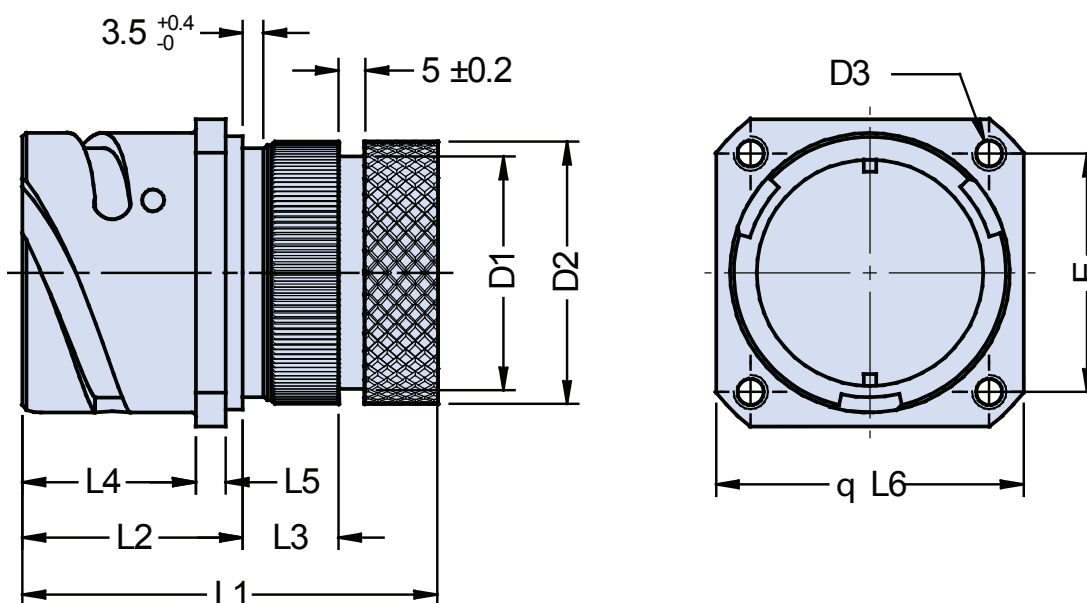
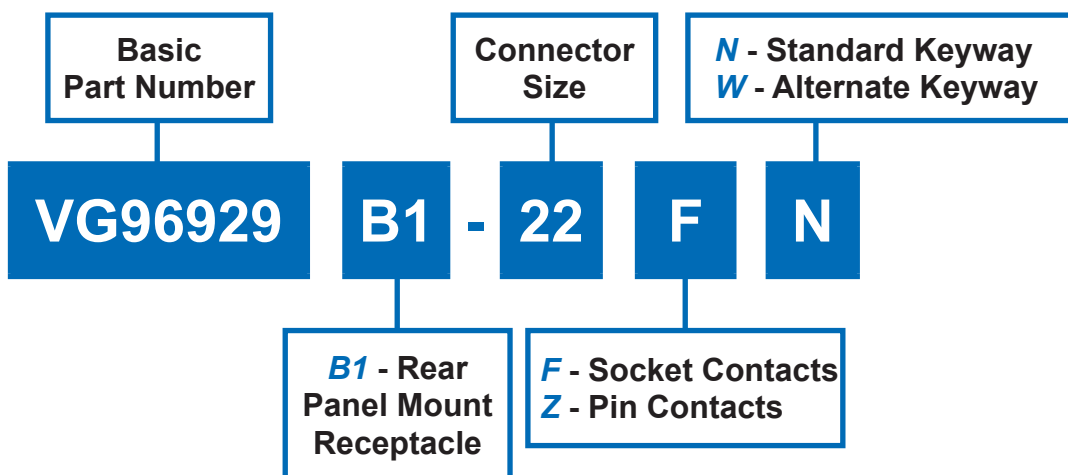
Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°

VG96929 B1
Square Flange Rear Panel Wall Mount Receptacle
with Shrink Boot Adapter



APPLICATION NOTES

1. Rear panel mount square flange receptacle with shrink boot adapter. Threaded mounting holes.
2. Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH
(For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

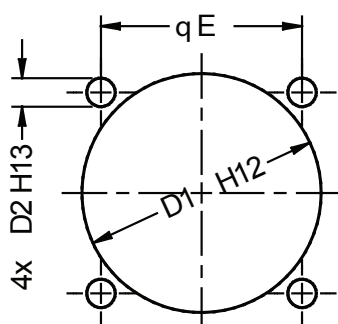
VG96929 B1

Square Flange Rear Panel Wall Mount Receptacle with Shrink Boot Adapter

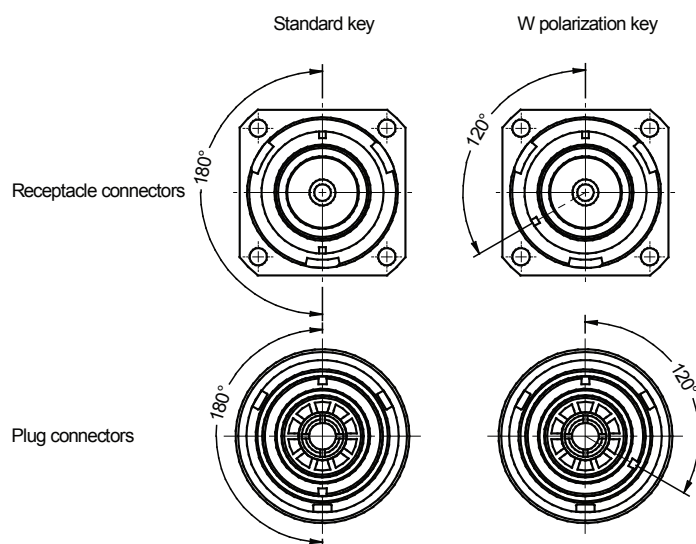


VG96929
Connectors

DIMENSIONS													
Cable mm ²	Size	D1 Max	D2 Max	D3	E ±0.1	L1 ±0.4	L2 ±2	L3 Opt	L4 ±0.4	L5 ±0.3	L6 ±0.3	L7 ±0.3	Weight Gr. Max
25	16	20.3	22.7	M4	24.6	41.0	29	-	20.00	3.2	32.5	5-	50
50	18	25.8	28.4	M4	27.0	50.0	32	-	23.05	4.0	35.0	86	86
95	22	33.0	35.3	M4	31.8	54.0	34	-	23.05	4.0	41.0	127	127
150	28	41.3	44.8	M5	39.7	65.3	38	18	24.05	4.0	50.8	250	250
240	32	46.1	49.6	M5	44.5	66.8	39	18	28.90	4.0	57.0	305	305



Panel Cut-Out						
Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5

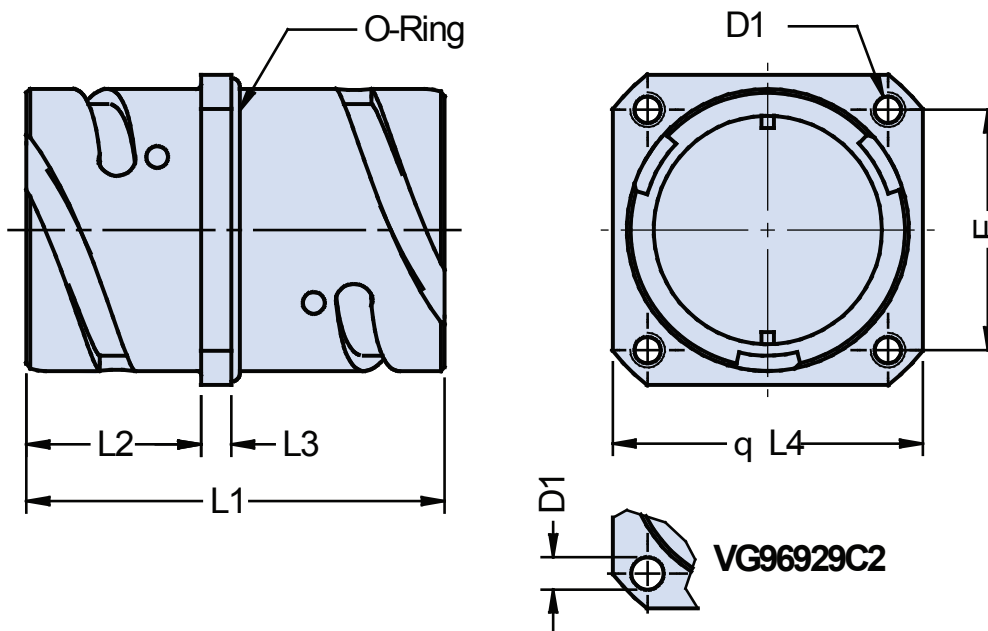
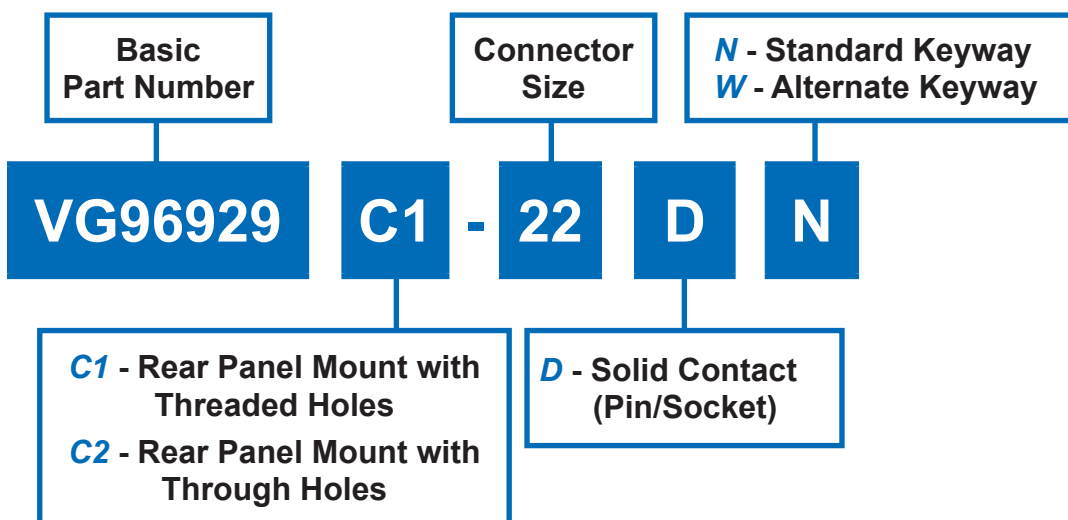


Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°
W: 120°

VG96929 C1 or C2
Square Flange Rear Mount Through Bulkhead
Receptacle with Threaded or Through Mounting Holes



APPLICATION NOTES

- Rear panel mount square flange receptacle—no accessory threads. Threaded (C1) or Through (C2) mounting holes.
- Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH
(For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

VG96929 C1 or C2

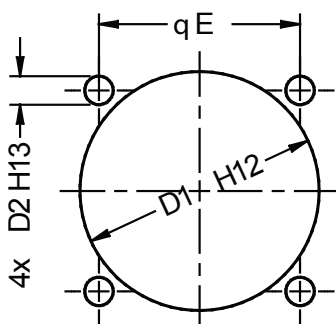
Square Flange Rear Mount Through Bulkhead Receptacle with Threaded or Through Mounting Holes



VG96929
Connectors

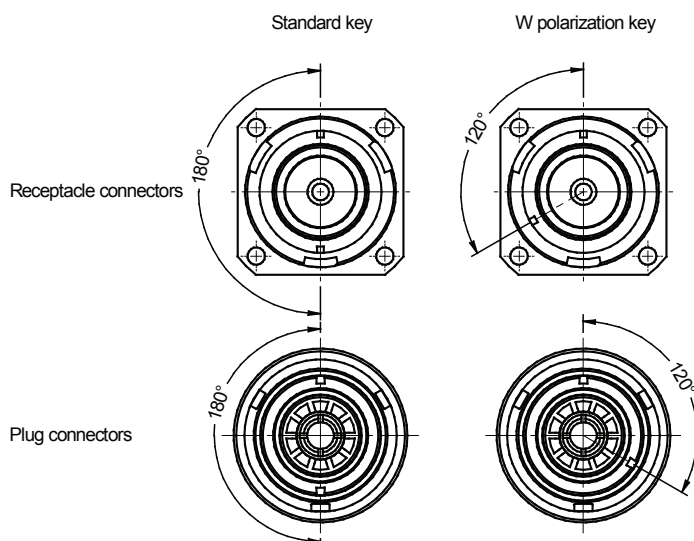
TABLE I: DIMENSIONS

Cable mm ²	Size	D1 max		E ±0.1	L1 max	L2		L3 ±0.2	L4 ±0.34	Weight gr. max
		C1	C2 H13			min	max			
95	22	M4	4.3	31.8	52.1	16	24.0	4.0	41.0	140
150	28	M5	5.3	39.7	52.1	18	23.6	4.0	50.8	235
240	32	M5	5.3	44.5	60.5	19	25.2	4.0	57.0	300



Panel Cut-Out

Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5



Alternate Keyway Positions

To avoid mismating of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°

VG96929 E

90° Plug Connector with Grounding Fingers and Adapter for EMI/RFI Braid and Shrink Boot

Basic
Part Number

VG96929

Connector
Size

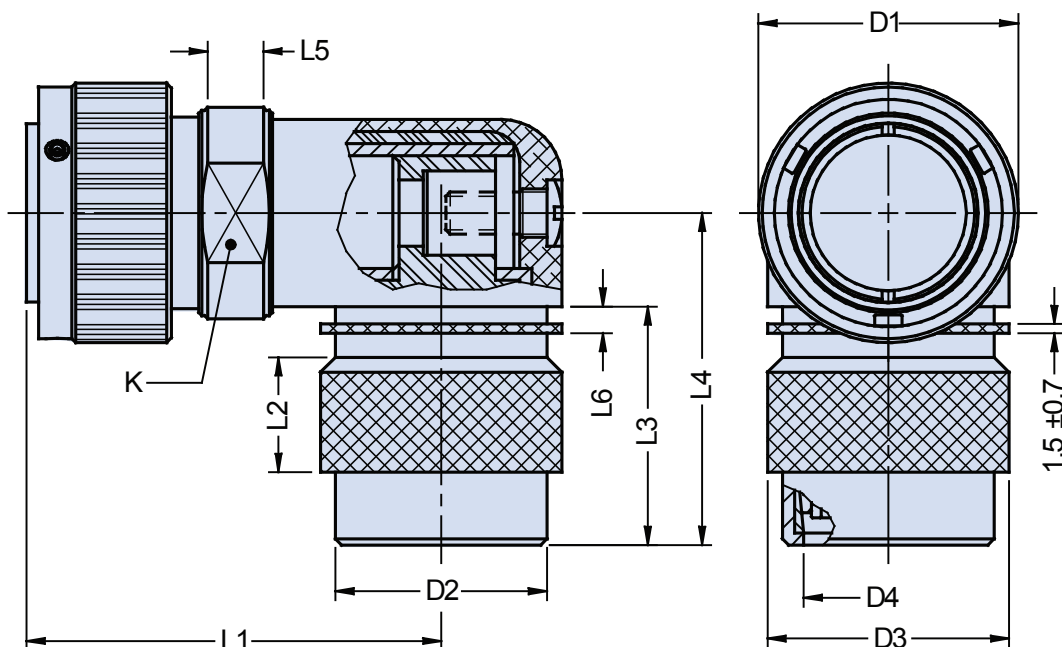
E - 22

N - Standard Keyway
W - Alternate Keyway

F N

E - 90° Plug Connector with Grounding Fingers and Adapter for EMI/RFI Braided Shield and Shrink Boot

F - Socket Contacts
Z - Pin Contacts



APPLICATION NOTES

- 90° Plug connector with grounding fingers for EMI/RFI braided shielding termination and shrink boot, and set screw termination.
- Material/Finish:
Shell, adapter and coupling nut - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

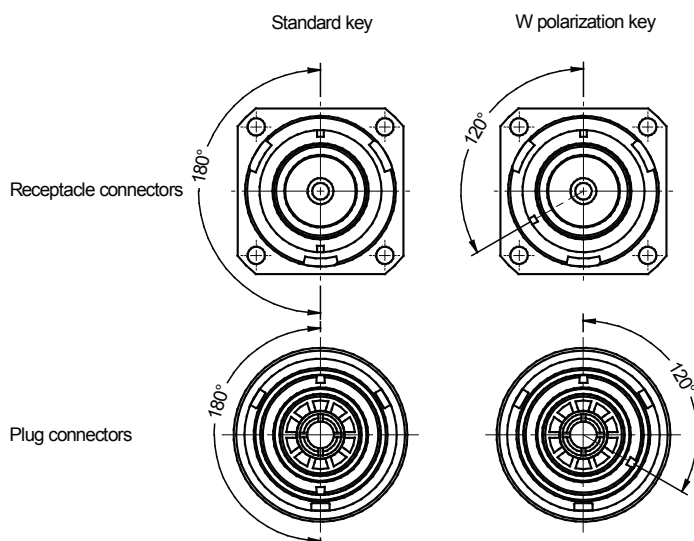
VG96929 E

90° Plug Connector with Grounding Fingers and Adapter for EMI/RFI Braid and Shrink Boot



VG96929
Connectors

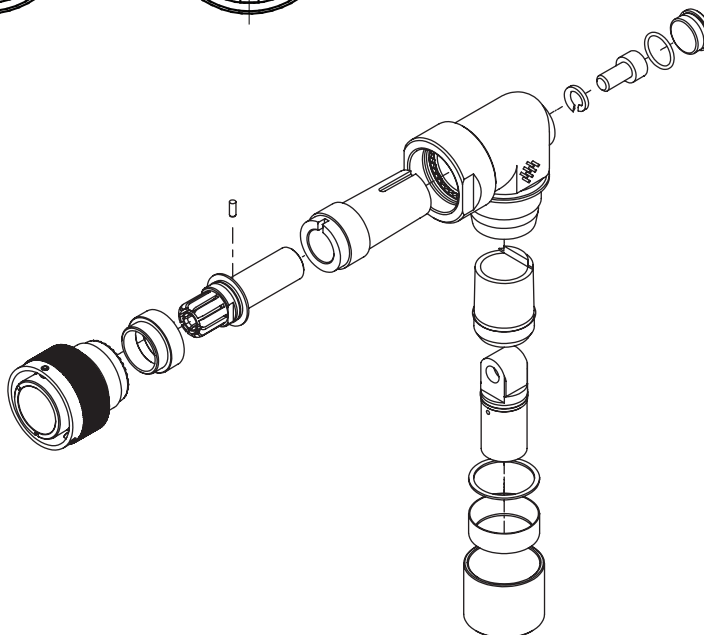
DIMENSIONS													
Cable mm ²	Size	D1 max	D2 max	D3 max	D4 ±0.3	K	L1 max	L2 opt	L3 max	L4 max	L5 min	L6 tol	Weight gr. Max
95	22	43.1	39.0	42.5	28	38	81	19.0	41.5	57	6.0	2.9	440
150	28	53.5	43.7	48.0	29	50	79	20.6	41.5	58	7.5	3.2	690
240	32	60.1	48.6	52.5	42	52	84	22.2	41.5	65	6.0	3.2	690



Alternate Keyway Positions

To avoid mismating of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°
W: 120°





VG96929 F

Straight Plug Connector with Grounding Fingers and Adapter for EMI/RFI Braid and Shrink Boot

Basic
Part Number

VG96929

Connector
Size

F

- 22

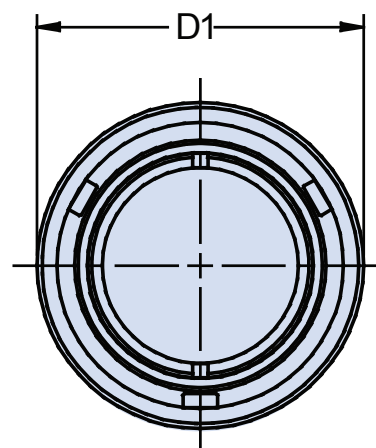
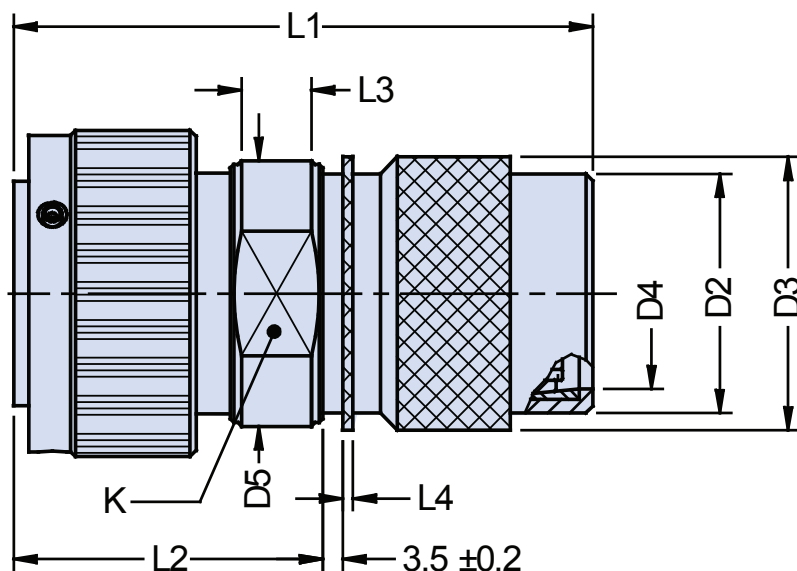
F

N

N - Standard Keyway
W - Alternate Keyway

F - Straight Plug Connector with
Grounding Fingers and Adapter for
EMI/RFI Braided Shield and Shrink Boot

F - Socket Contacts
Z - Pin Contacts



APPLICATION NOTES

1. Straight Plug connector with grounding fingers and adapter for EMI/RFI braided shielding termination and shrink boot.
2. Material/Finish:
Shell, adapter and coupling nut - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

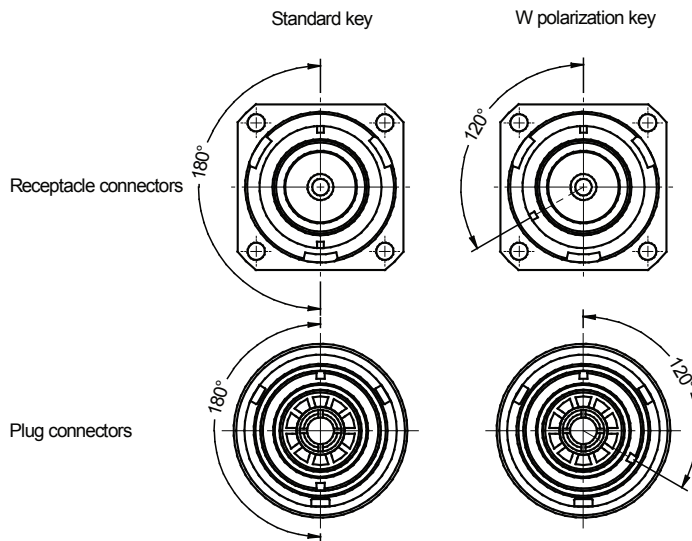
VG96929 F

Straight Plug Connector with Grounding Fingers and Adapter for EMI/RFI Braid and Shrink Boot



VG96929
Connectors

DIMENSIONS												
Cable mm ²	Size	D1 max	D2 max	D3 max	D4 min	D5 max	K	L1 max	L2 max	L3 min	L4 ±0.7	Weight gr. max
25	16	32.0	24.1	26.0	15.5	32.0	26	70	45.6	8	1.0	80
50	18	36.5	28.8	32.0	20.0	36.5	32	76	51.1	6	1.0	156
95	22	43.1	34.1	37.0	25.5	46.0	38	86	61.0	9	1.0	204
150	28	53.5	40.7	44.0	32.0	53.0	50	98	71.7	9	1.0	300
240	32	60.1	47.3	51.6	38.0	60.0	52	98	70.7	12	2.0	450



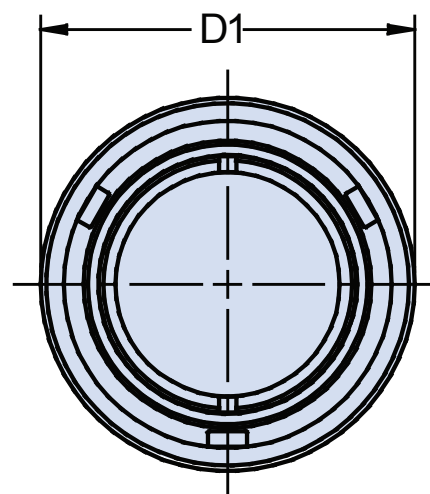
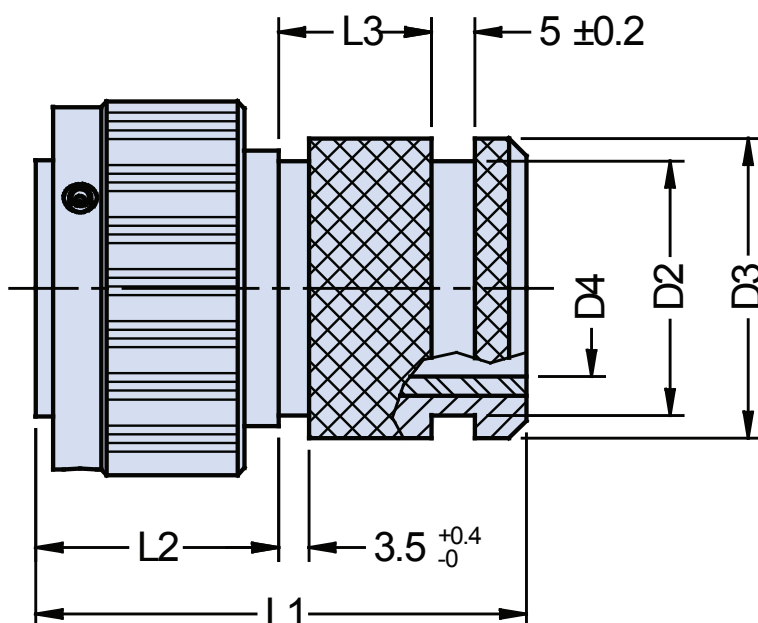
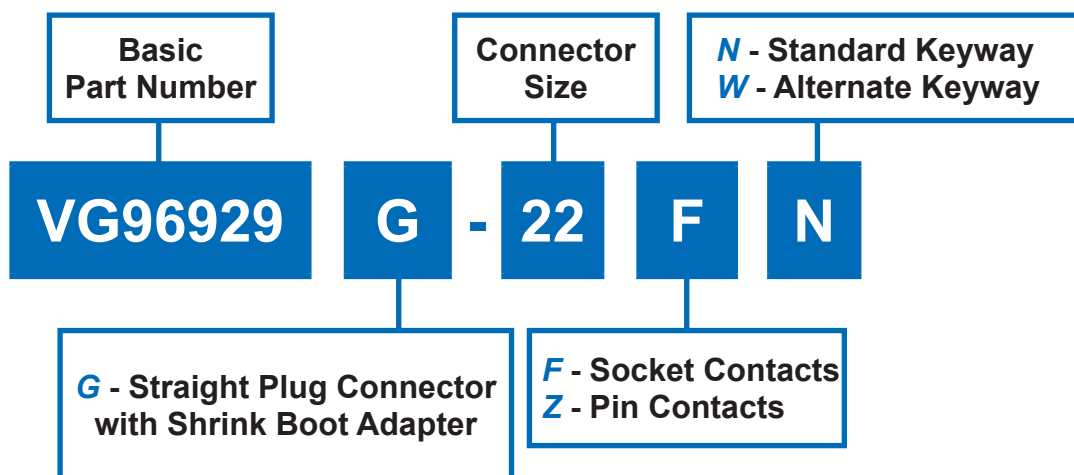
Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°

VG96929 G Straight Plug Connector with Shrink Boot Adapter



APPLICATION NOTES

1. Straight Plug connector with shrink boot adapter.
2. Material/Finish:
Shell, adapter and coupling nut - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

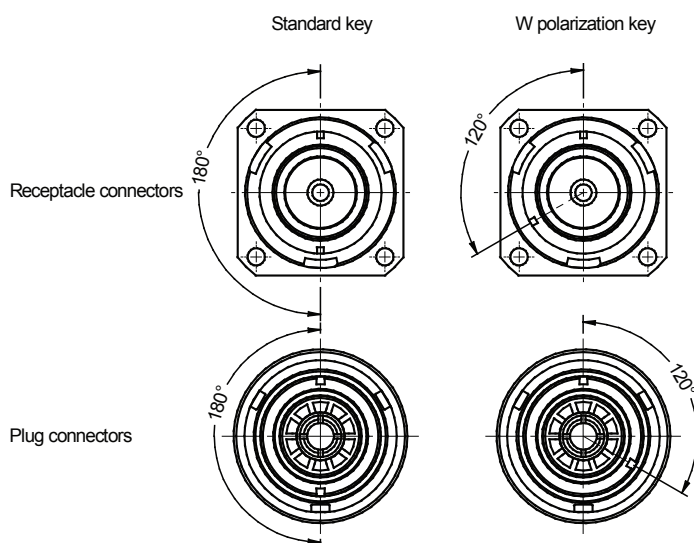
VG96929 G

Straight Plug Connector with Shrink Boot Adapter



VG96929
Connectors

DIMENSIONS									
Cable mm ²	Size	D1 max	D2 max	D3 max	D4 min	L1 max	L2 max	L3 opt	Weight gr. max
25	16	32.0	20.3	22.7	14.0	44	25	-	64
50	18	36.5	25.8	28.4	19.0	53	33	-	106
95	22	43.1	31.5	35.3	23.9	57	37	13.3	146
150	28	53.5	41.3	44.8	27.3	65	37	18.0	270
240	32	60.1	46.1	49.6	32.8	65	39	15.0	320



Alternate Keyway Positions

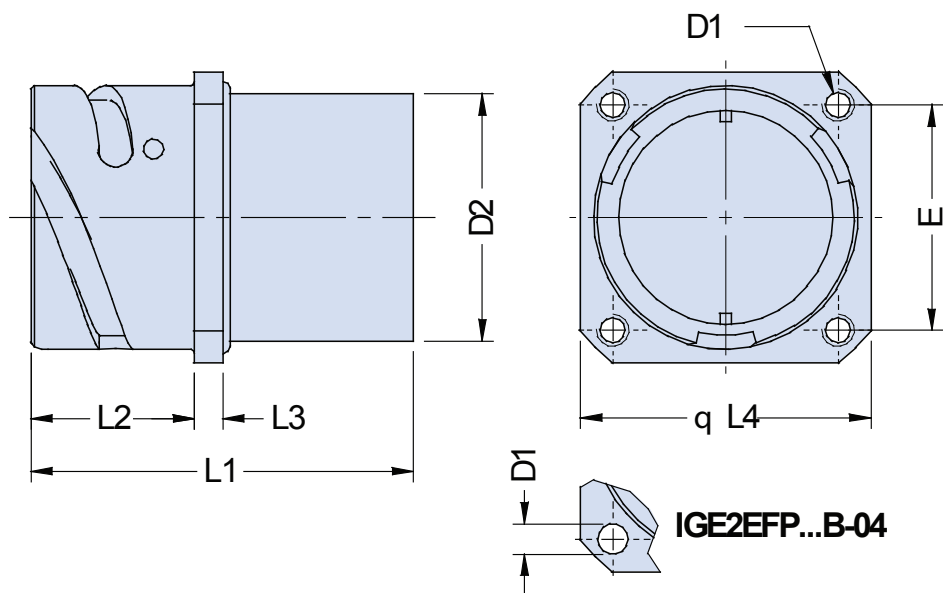
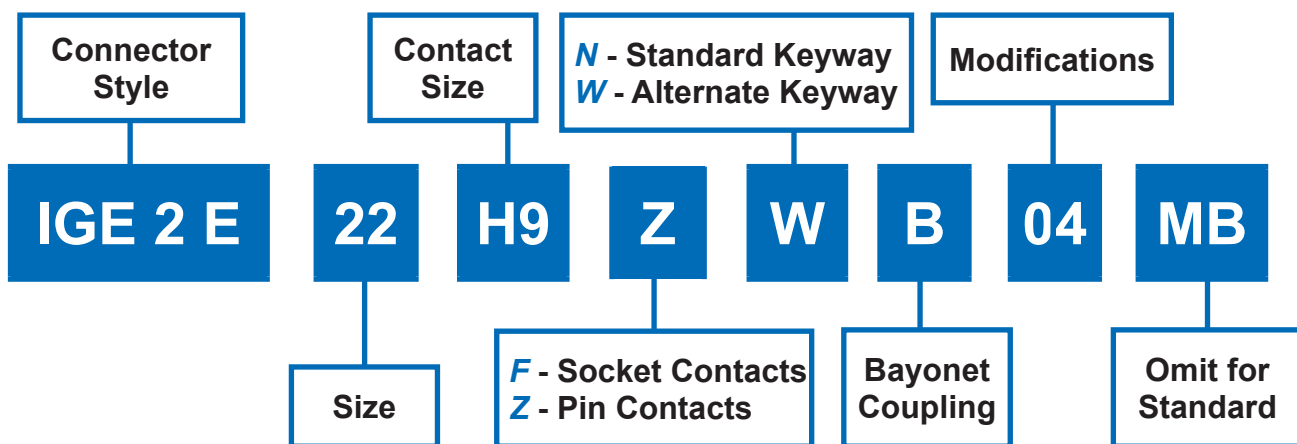
To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°
W: 120°



IGE 2 E ... B-04 MB

Square Flange Front Panel Mount Receptacle with Set Screw Termination



APPLICATION NOTES

- Rear panel mount square flange receptacle—with set screw termination. Through mounting holes.
- Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

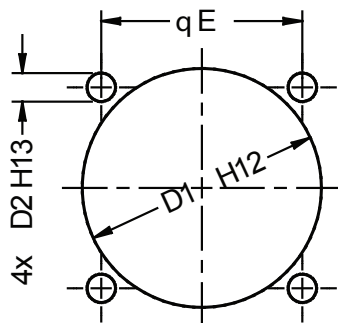
IGE 2 E ... B-04 MB

Square Flange Front Panel Mount Receptacle with Set Screw Termination

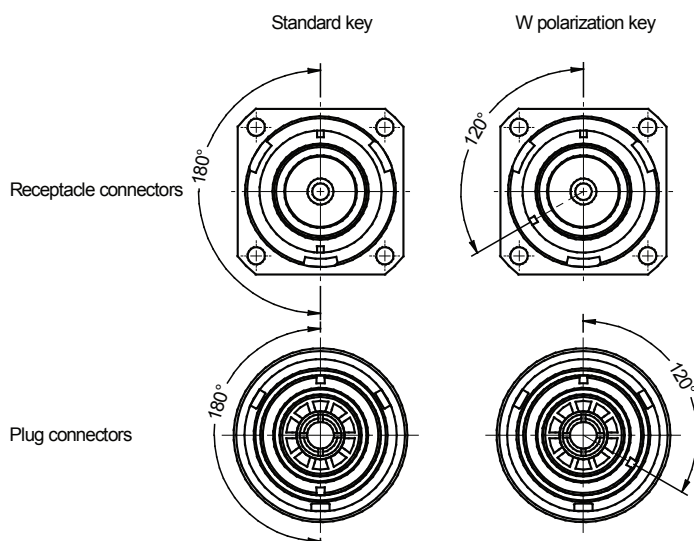


VG96929
Connectors

DIMENSIONS										
Cable mm ²	Size	D1 ±0.3 (FP) H 13	D2 ±0.1 5	E ±0.1	L1 max	L2 ±0.4	L3 ±0.3	L4 ±0.3	Weight for Alloy Version (gr. max)	
50	18	M4	4.3	27.0	27.0	50.0	23.15	4.0	35.0	150
95	22	M4	4.3	34.9	31.8	54.0	23.15	4.0	41.0	240
150	28	M4	5.3	44.4	39.7	65.3	24.15	4.0	50.8	420
240	32	M5	5.3	49.2	44.5	66.8	29.00	4.0	57.0	520



PANEL CUT-OUT						
Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5



Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

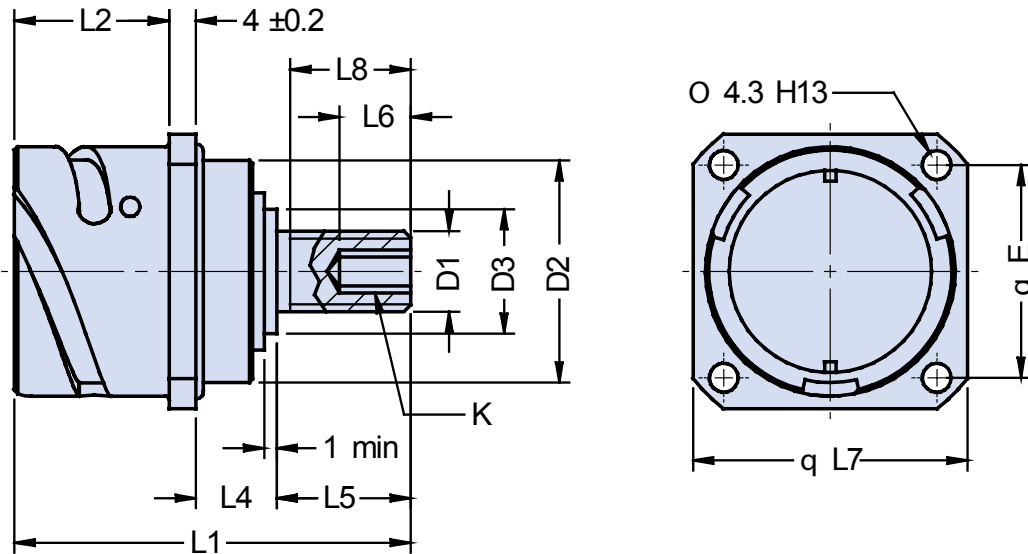
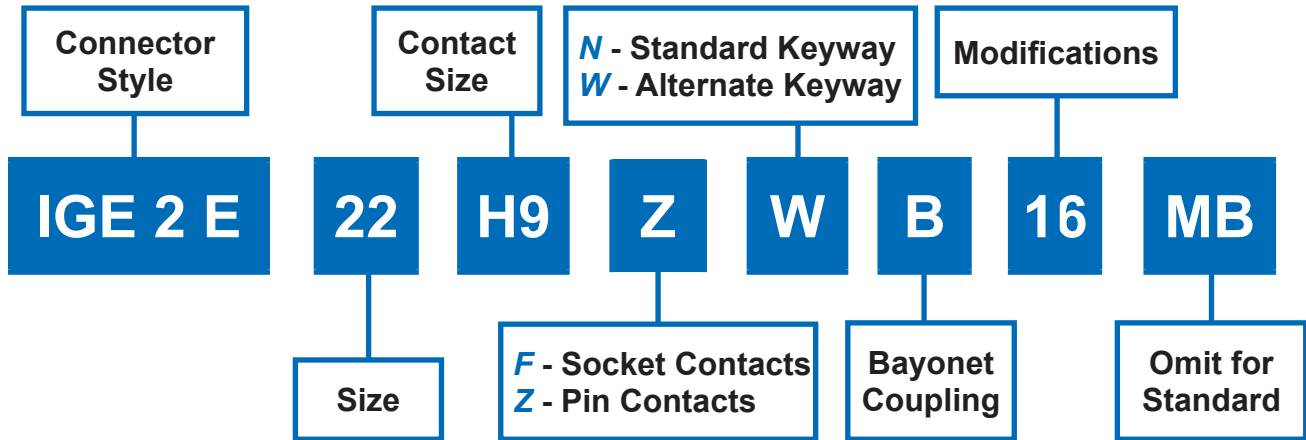
N: 180°

W: 120°



IGE 2 E ... B-16 MB

Square Flange Front Panel Mount Receptacle with Set Screw Termination



APPLICATION NOTES

- Front panel mount square flange receptacle—with set screw termination. Through mounting holes.
- Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

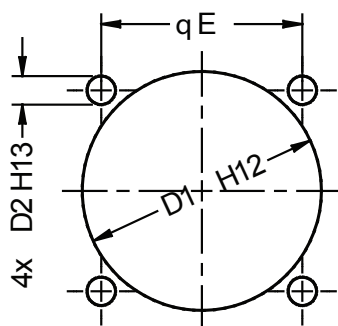
IGE 2 E ... B-16 MB

Square Flange Front Panel Mount Receptacle with Set Screw Termination

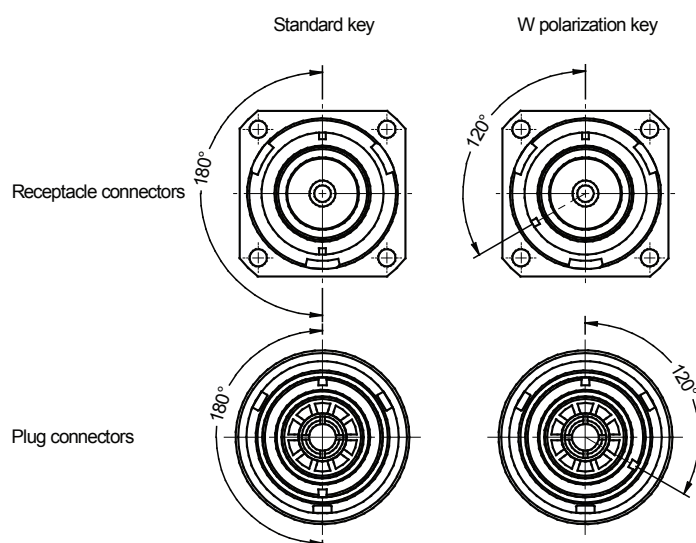


VG96929
Connectors

DIMENSIONS															
Cable mm ²	Size	D1	D2 +0 -0.15	D3 +0 -0.15	E ±0.1	K ±0.2	L1 max	L2 +0.4 -0	L4 ±1.5		L5 ±0.3	L6 ±0.3	L7 ±0.3	L8 Min	Weight for Alloy Version (gr. max)
									(F)	(Z)					
50	18	M8	26.9	15.0	27.0	3	55	23.05	12.0	12.0	15	10	35.0	12	195
95	22	M12	33.2	18.7	31.8	6	66	23.05	13.5	12.0	25	8	41.0	22	250
150	28	M12	42.8	27.0	39.7	6	62	24.05	12.0	12.0	20	8	50.8	16	430
240	32	M16	49.2	31.7	44.5	8	78	28.90	14.0	14.0	30	8	57.0	27	530



PANEL CUT-OUT						
Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5



Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

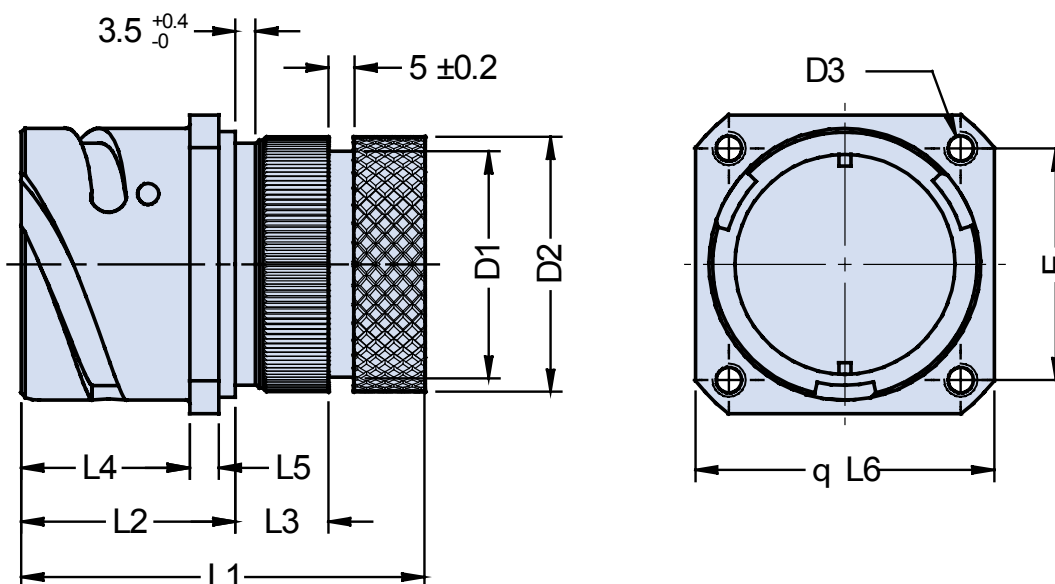
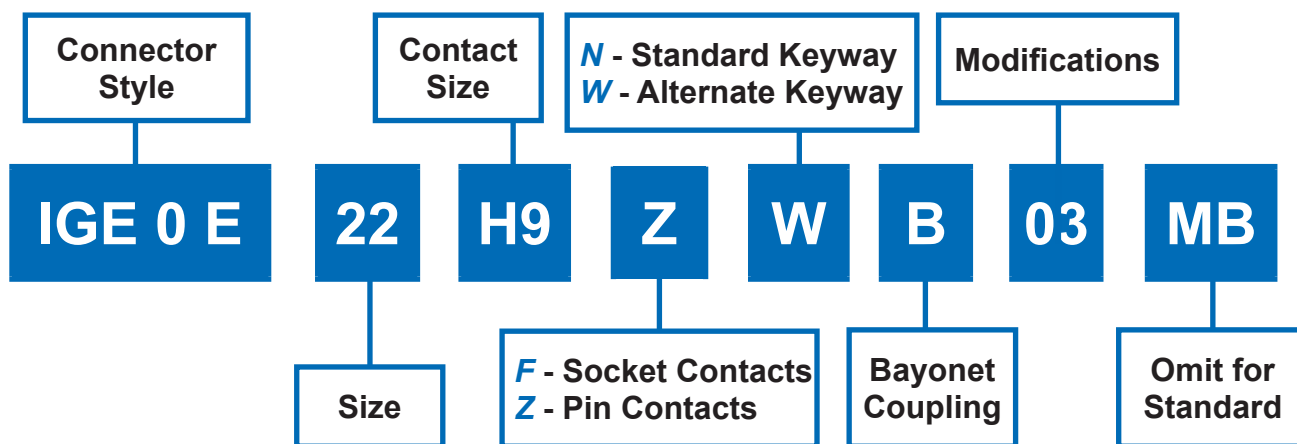
N: 180°

W: 120°



IGE 0 E ... B-03 MB

Square Flange Rear Panel Mount Receptacle with Shrink Boot Adapter



APPLICATION NOTES

- Rear panel mount square flange receptacle with shrink boot adapter. Threaded mounting holes.
- Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

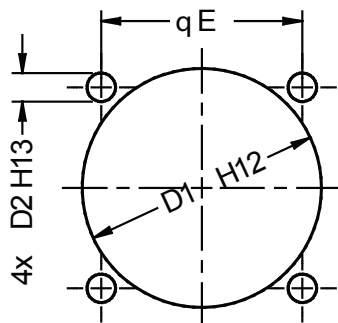
Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

IGE 0 E ... B-03 MB
Square Flange Rear Panel Mount Receptacle
with Shrink Boot Adapter

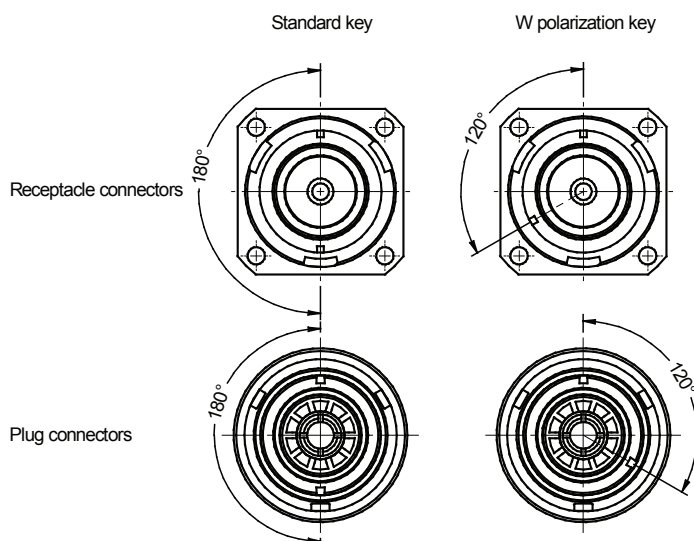


VG96929
Connectors

DIMENSIONS													
Cable mm ²	Size	D1 max	D2 max	D3	E ±0.1	L1 ±0.4	L2 ±2	L3 opt	L4 ±0.4	L5 ±0.3	L6 ±0.3	L7 ±0.3	Weight for Alloy Version (gr. max)
25	16	20.3	22.7	M4	24.6	41.0	29	-	20.00	3.2	32.5	50	120
50	18	25.8	28.4	M4	27.0	50.0	32	-	23.05	4.0	35.0	86	150
95	22	33.0	35.3	M4	31.8	54.0	34	-	23.05	4.0	41.0	127	240
150	28	41.3	44.8	M5	39.7	65.3	38	18	24.05	4.0	50.8	250	420
240	32	46.1	49.6	M5	44.5	66.8	39	18	28.90	4.0	57.0	305	520



PANEL CUT-OUT						
Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5



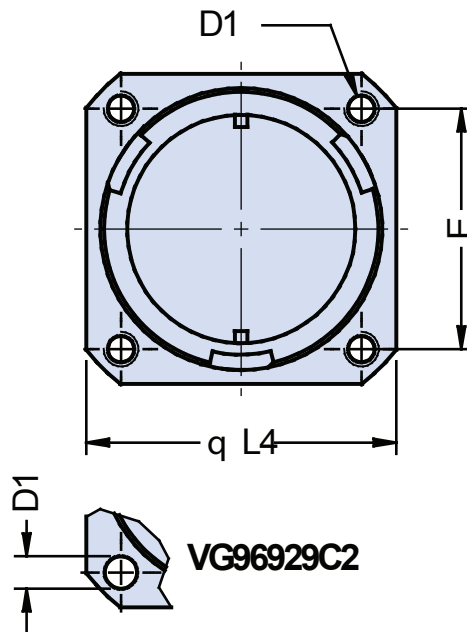
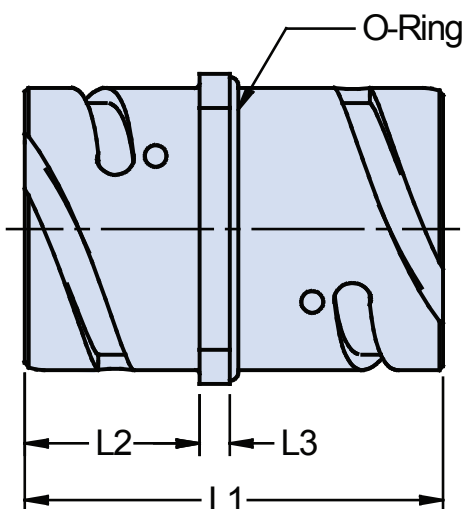
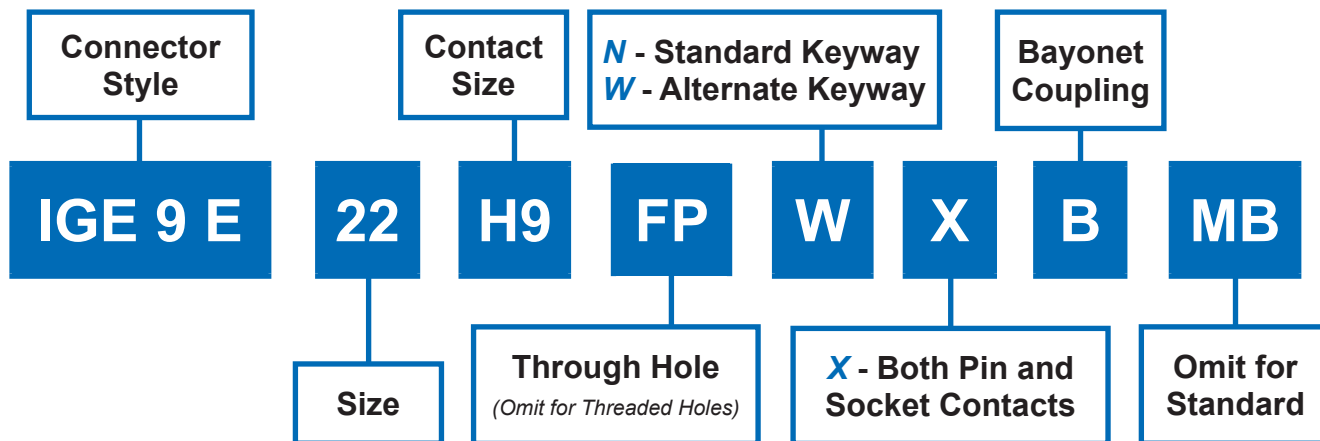
Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°

IGE 9 E ... X-B MB and IGE 9 EFP ... X-B MB
Square Flange Rear Mount Through Bulkhead
Receptacle with Threaded or Through Mounting Holes



APPLICATION NOTES

- Rear panel mount square flange receptacle—no accessory threads. Through (FP) or threaded (omit) mounting holes.
- Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH
(For QQ-A-591 Aluminum Shells)

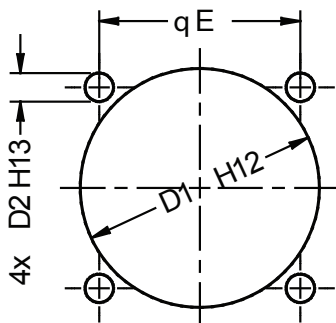
Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

IGE 9 E ... X-B MB and IGE 9 EFP ... X-B MB
Square Flange Rear Mount Through Bulkhead
Receptacle with Threaded or Through Mounting Holes

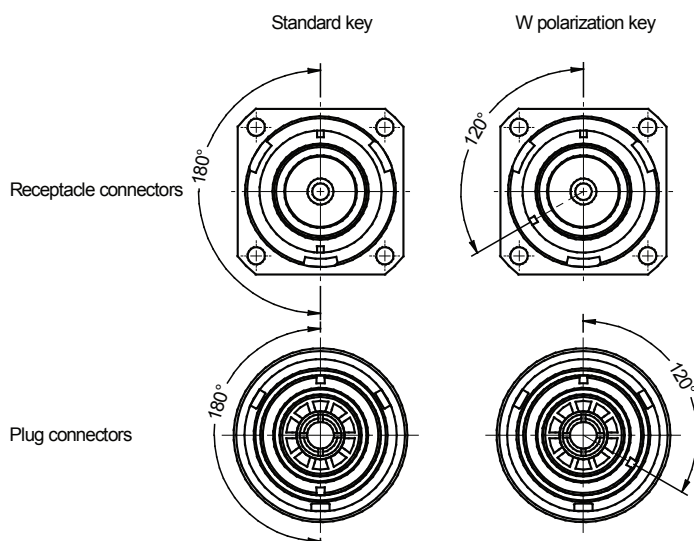


VG96929
Connectors

DIMENSIONS										
Cable mm ²	Size	D1 Max		E 0.1	L1 max	L2x		L3 0.2	L4 0.34	Weight for Alloy Version (gr. max)
		Threaded	Through (FP)			Min	Max			
95	22	M4	4.3	31.8	52.1	16	24.0	4.0	41.0	260
150	28	M5	5.3	39.7	52.1	18	23.6	4.0	50.8	390
240	32	M5	5.3	44.5	60.5	19	25.2	4.0	57.0	490



PANEL CUT-OUT						
Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5



Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

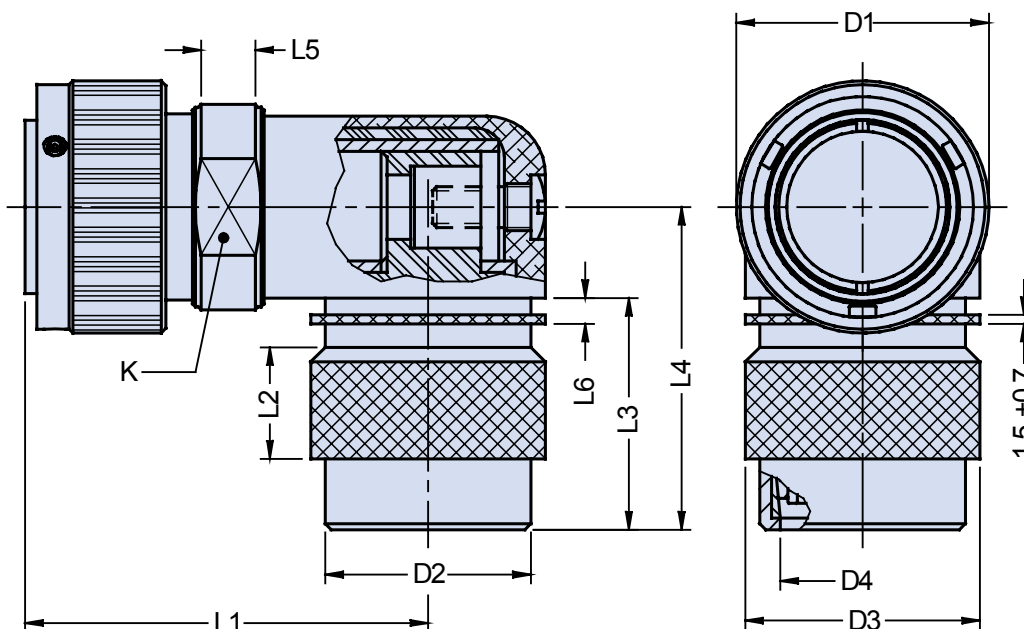
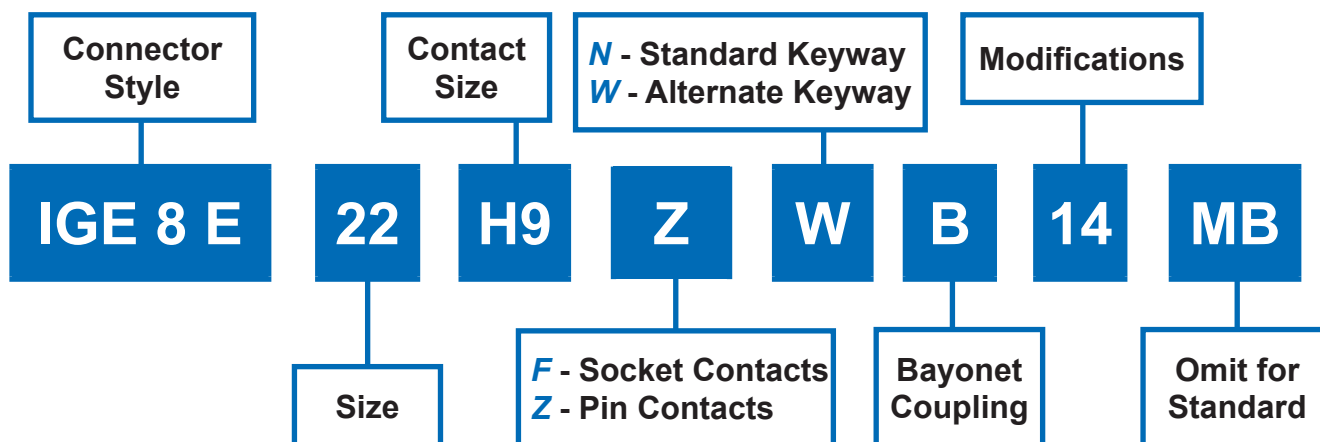
N: 180°

W: 120°



IGE 8 E ... B-14 MB

90° Plug Connector with Grounding Fingers and Adapter for EMI/RFI Braid and Shrink Boot



APPLICATION NOTES

- 90° plug connector with grounding fingers and adapter for EMI/RFI braided shielding termination and shrink boot. Set screw termination.
- Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

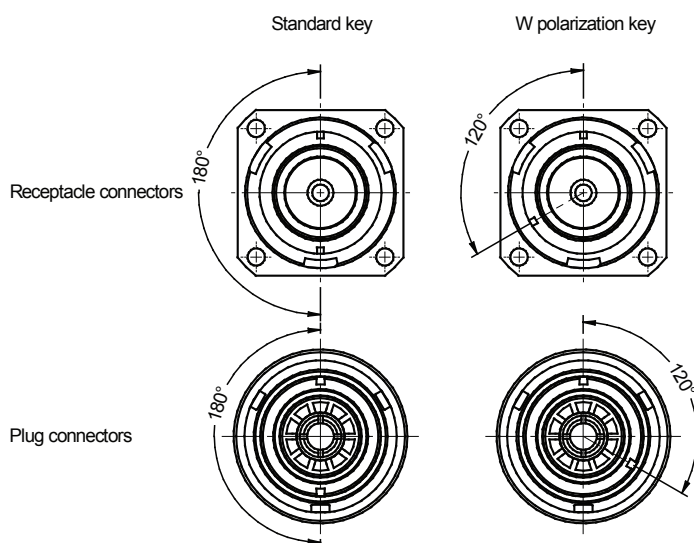
IGE 8 E ... B-14 MB

90° Plug Connector with Grounding Fingers and Adapter for EMI/RFI Braid and Shrink Boot



VG96929
Connectors

DIMENSIONS													
Cable mm ²	Size	D1 Max	D2 Max	D3 Max	D4 ±0.3	K	L1 Max	L2 opt	L3 Max	L4 Max	L5 Min	L6 tol	Weight for Alloy Version (gr. max)
95	22	43.1	39.0	42.5	28	38	81	19.0	41.5	57	6.0	2.9	750
150	28	53.5	43.7	48.0	29	50	79	20.6	41.5	58	7.5	3.2	1076
240	32	60.1	48.6	52.5	42	52	84	22.2	41.5	65	6.0	3.2	1340

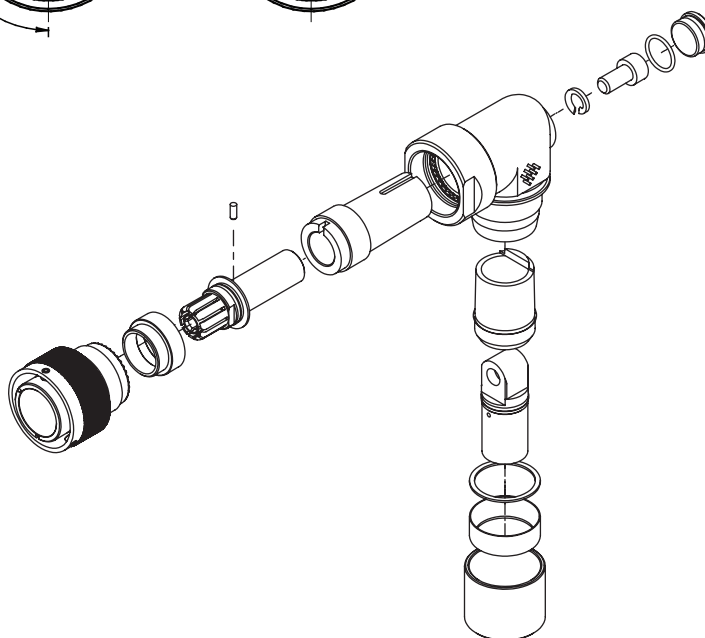


Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

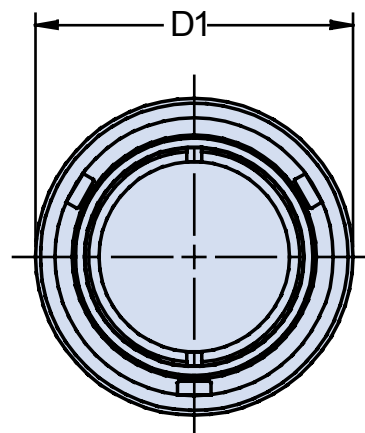
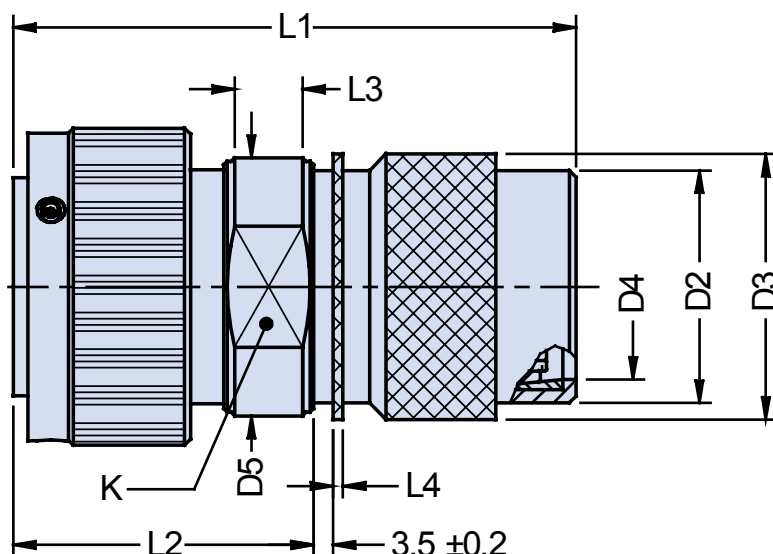
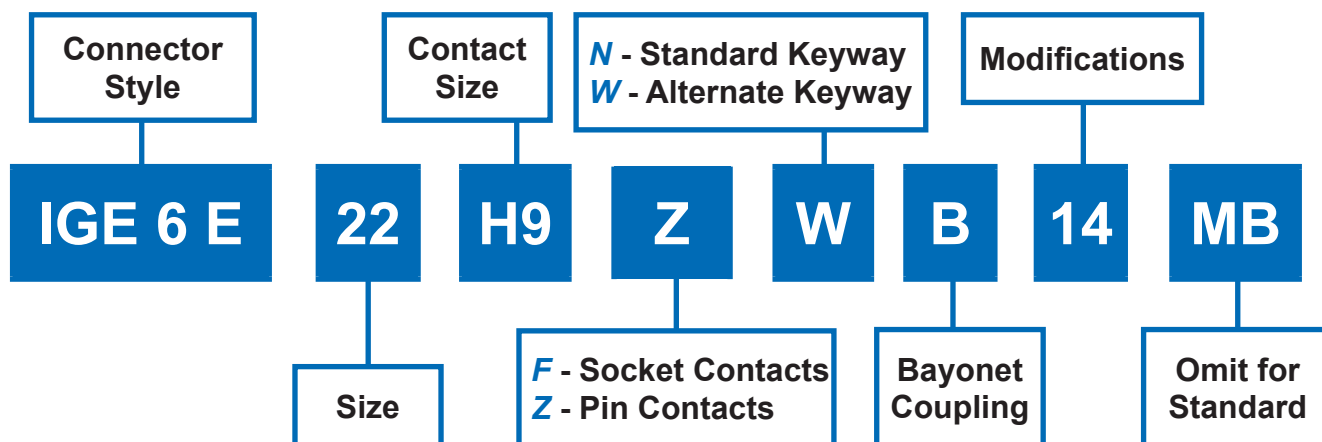
W: 120°





IGE 6 E ... B-14 MB

Straight Plug Connector with Grounding Fingers and Adapter for EMI/RFI Braid and Shrink Boot



APPLICATION NOTES

1. Straight plug connector with grounding fingers and adapter for EMI/RFI braided shielding termination and shrink boot.
2. Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

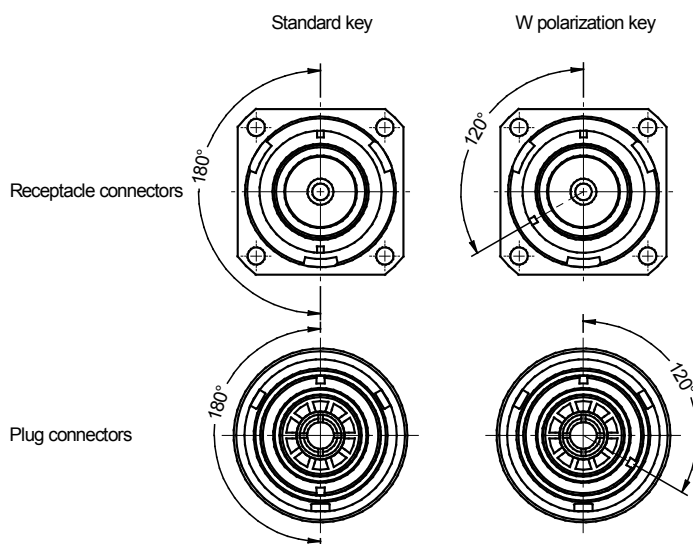
IGE 6 E ... B-14 MB

Straight Plug Connector with Grounding Fingers and Adapter for EMI/RFI Braid and Shrink Boot



VG96929
Connectors

DIMENSIONS												
Cable mm ²	Size	D1 Max	D2 Max	D3 Max	D4 Min	D5 Max	K	L1 Max	L2 Max	L3 Min	L4 ±0.7	Weight for Alloy Version (gr. max)
25	16	32.0	24.1	26.0	15.5	32.0	26	70	45.6	8	1.0	80
50	18	36.5	28.8	32.0	20.0	36.5	32	76	51.1	6	1.0	156
95	22	43.1	34.1	37.0	25.5	46.0	38	86	61.0	9	1.0	204
150	28	53.5	40.7	44.0	32.0	53.0	50	98	71.7	9	1.0	300
240	32	60.1	47.3	51.6	38.0	60.0	52	98	70.7	12	2.0	450



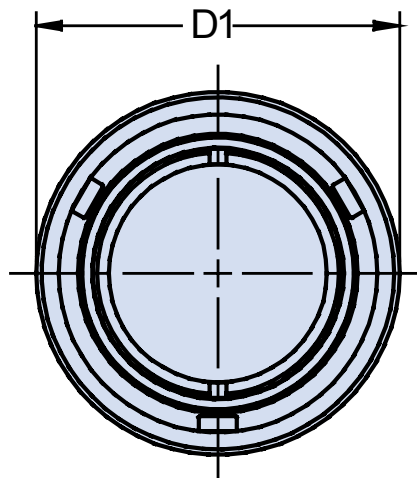
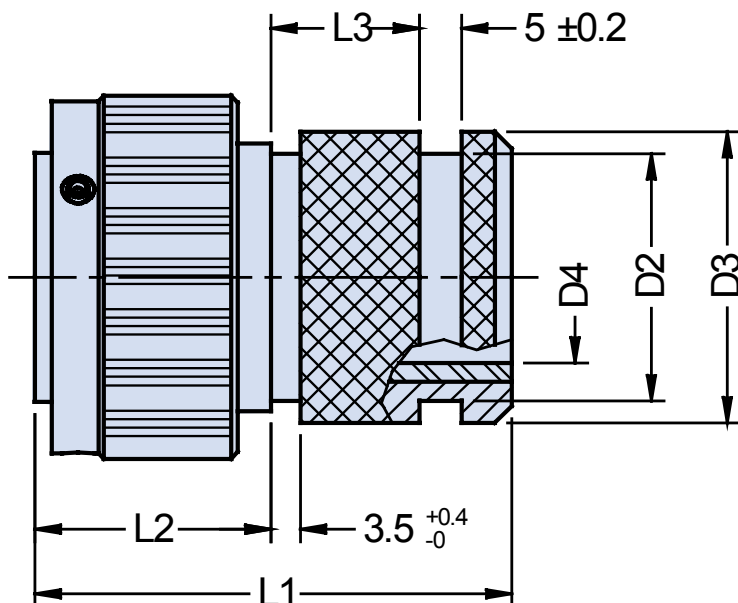
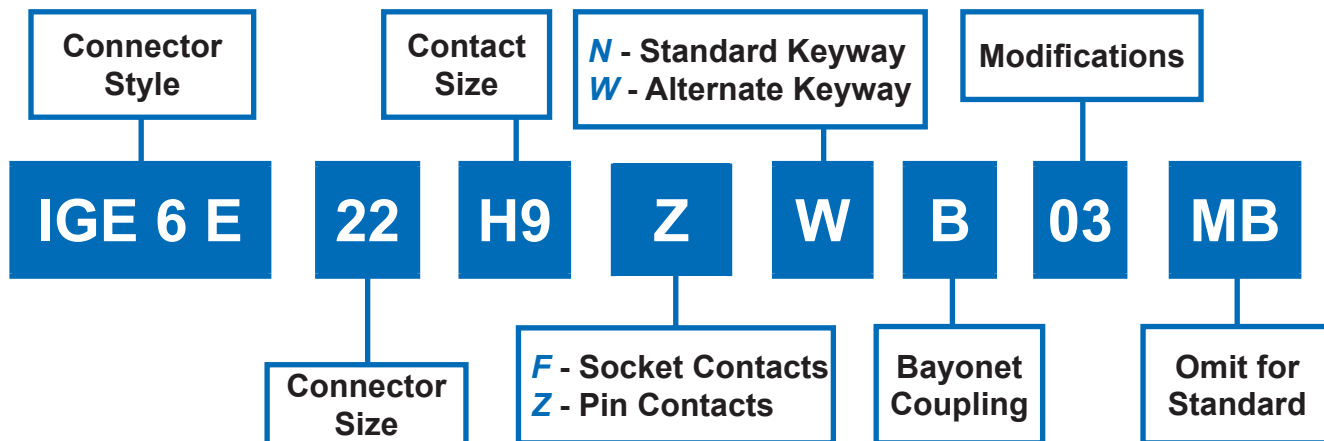
Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°

IGE 6 E ... B-03 MB
Straight Plug Connector
with Shrink Boot Adapter



APPLICATION NOTES

1. Straight plug connector with shrink boot adapter.
2. Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH
(For QQ-A-591 Aluminum Shells)

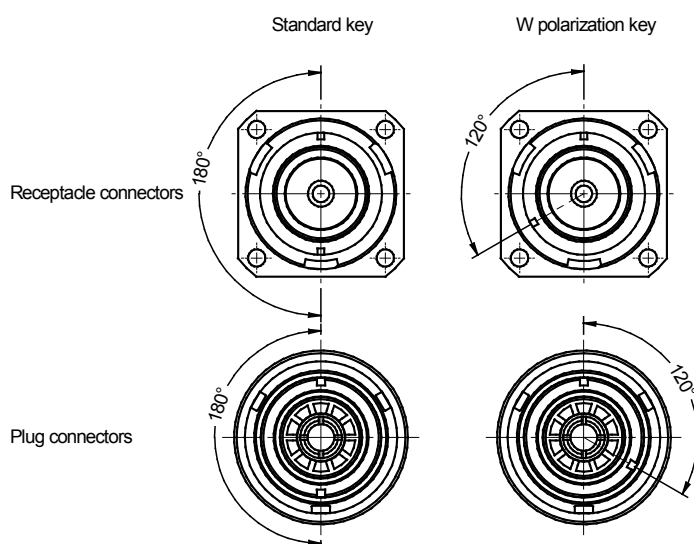
Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

IGE 6 E ... B-03 MB Straight Plug Connector with Shrink Boot Adapter



VG96929
Connectors

DIMENSIONS									
Cable mm ²	Size	D1 Max	D2 Max	D3 Max	D4 Min	L1 Max	L2 Max	L3 Opt	Weight for Alloy Version (gr. max)
25	16	32.0	20.3	22.7	14.0	44	25	-	115
50	18	36.5	25.8	28.4	19.0	53	33	-	185
95	22	43.1	31.5	35.3	23.9	57	37	13.3	250
150	28	53.5	41.3	44.8	27.3	65	37	18.0	460
240	32	60.1	46.1	49.6	32.8	65	39	15.0	540



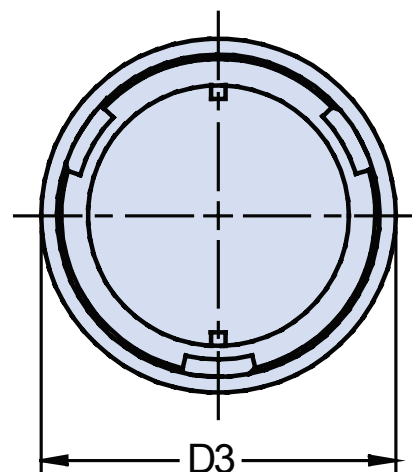
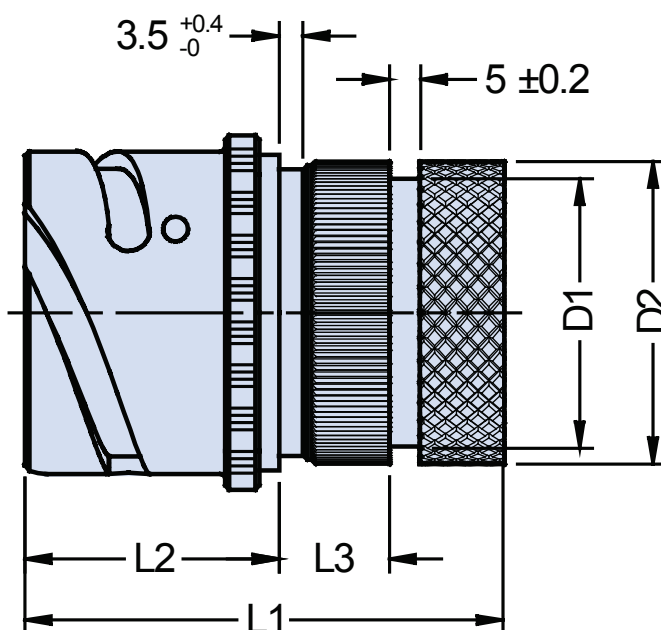
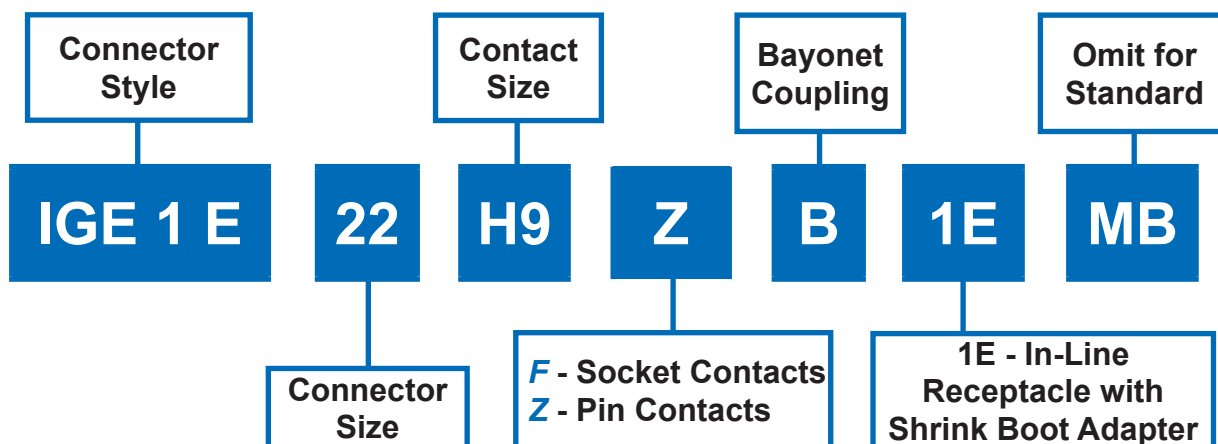
Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°

IGE 1 E ... B-03 MB In-Line Receptacle with Shrink Boot Adapter



APPLICATION NOTES

1. In-line receptacle with shrink boot adapter.
2. Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

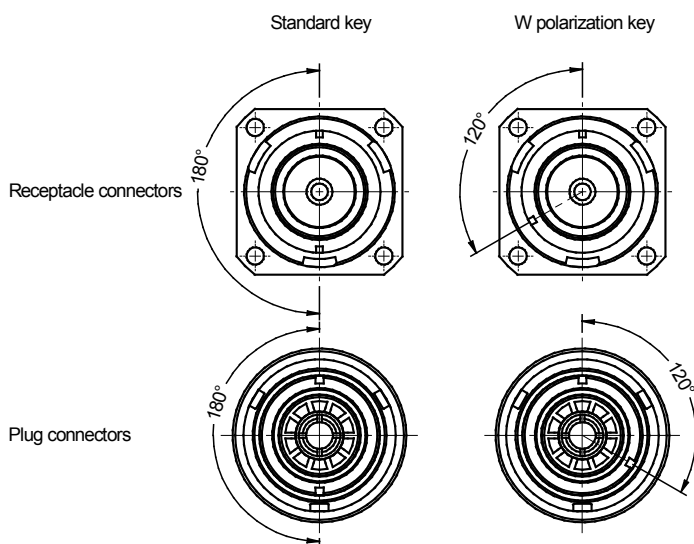
Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

IGE 1 E ... B-03 MB In-Line Receptacle with Shrink Boot Adapter



VG96929
Connectors

DIMENSIONS								
Cable mm ²	Size	D1 Max	D2 Max	D3 ±0.3	L1 ±0.4	L2 ±2	L3 Opt	Weight for Alloy Version (gr. max)
25	16	20.3	22.7	32.5	41.0	29	-	50
50	18	25.8	28.4	35.0	50.0	32	-	86
95	22	31.5	35.3	41.0	54.0	34	-	127
150	28	41.3	44.8	50.8	65.3	38	18	250
240	32	46.1	49.6	57.0	66.8	39	18	305



Alternate Keyway Positions

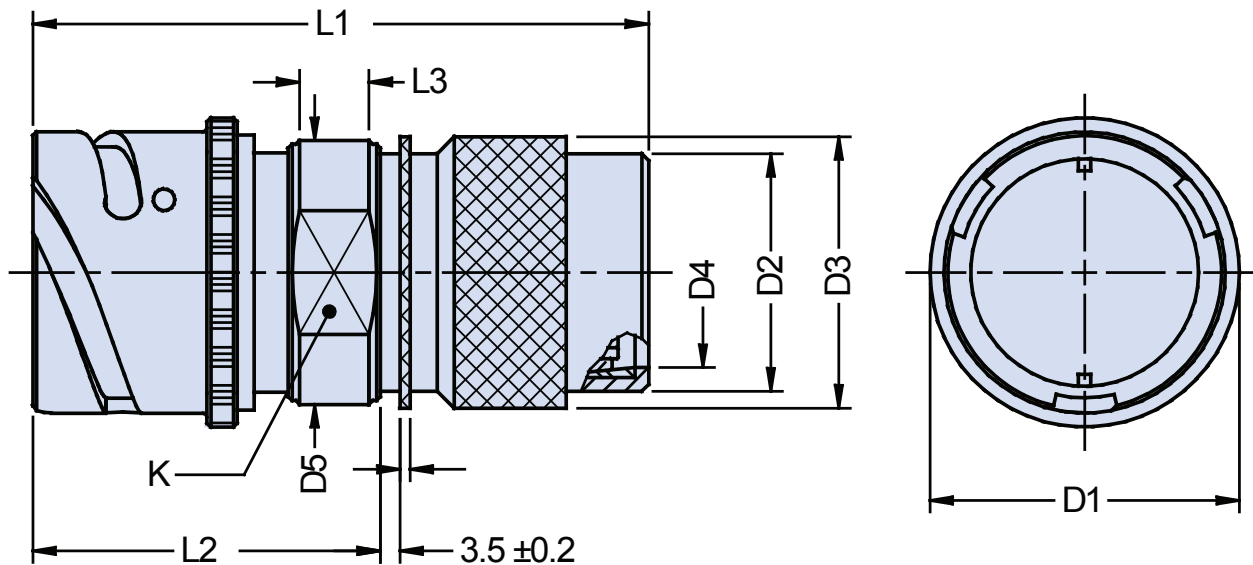
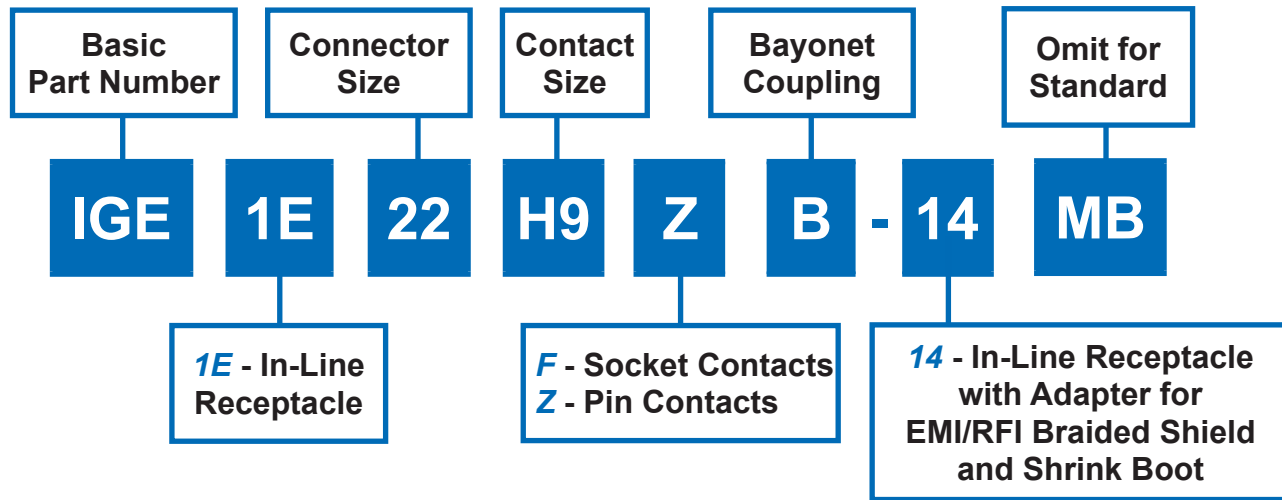
To avoid mismating of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°

IGE 1E ... B-14

In-Line Receptacle with Adapter for EMI/RFI Braided Shield and Shrink Boot



APPLICATION NOTES

1. In-Line Receptacle with adapter for EMI/RFI braided shield and shrink boot.
2. Material/Finish:
 - Shell, adapter and coupling nut - Aluminum alloy/olive drab passivation.
 - Insert - PTFE (Teflon)/N.A.
 - Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

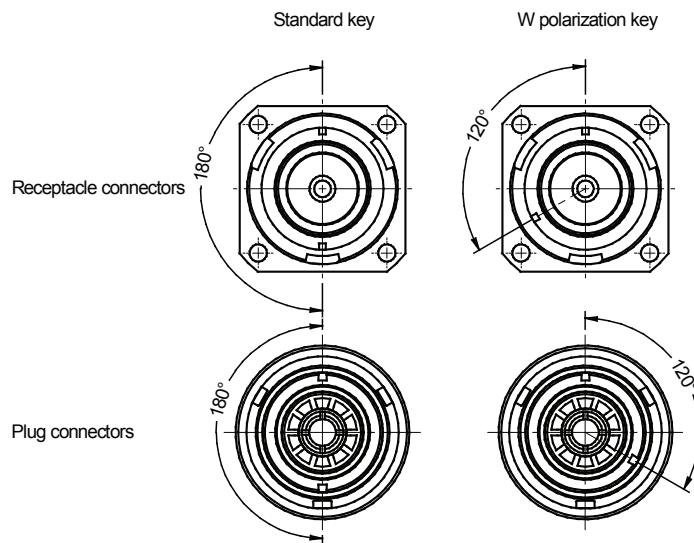
IGE 1E ... B-14

In-Line Receptacle with Adapter for EMI/RFI Braided Shield and Shrink Boot



VG96929
Connectors

DIMENSIONS												
Cable mm ²	Size	D1 ±0.3	D2 max	D3 max	D4 min	D5 max	K	L1 max	L2 max	L3 min	L4 ±0.7	Weight for Alloy Version (gr. max)
25	16	32.0	24.1	26.0	15.5	32.0	26	70	45.6	8	1.0	80
50	18	35.0	28.8	32.0	20.0	36.5	32	76	51.1	6	1.0	156
95	22	41.0	34.1	37.0	25.5	46.0	38	86	61.0	9	1.0	204
150	28	50.8	40.7	44.0	32.0	53.0	50	98	71.7	9	1.0	300
240	32	57.0	47.3	51.6	38.0	60.0	52	98	70.7	12	2.0	450



Alternate Keyway Positions

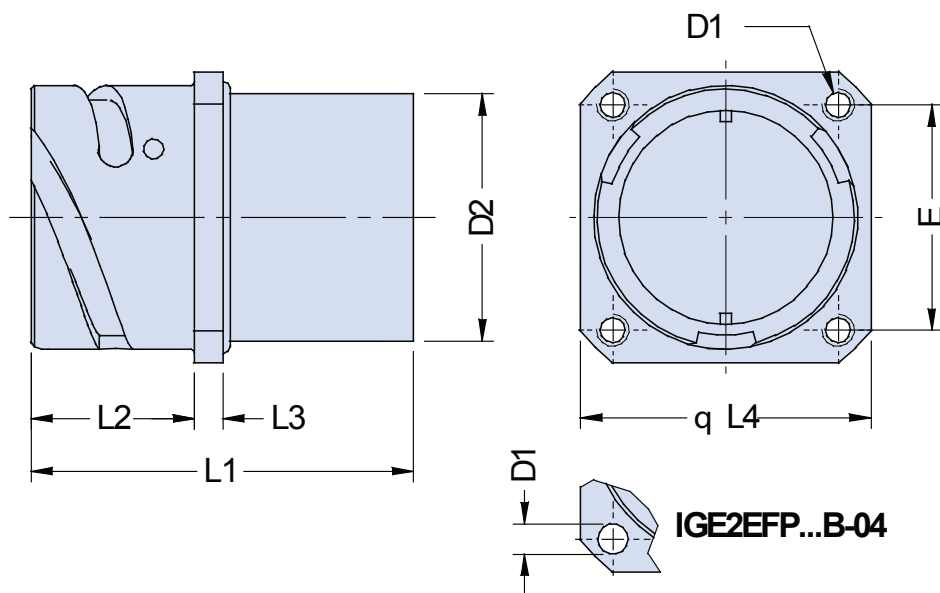
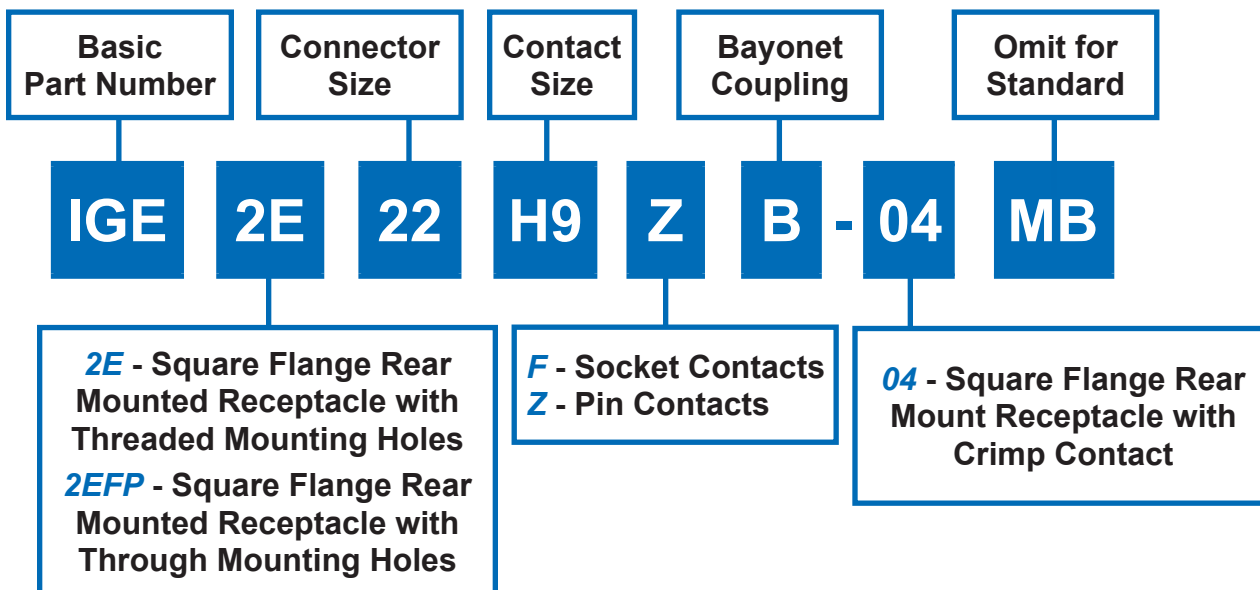
To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°



IGE 2E ... B-04 and IGE 2EFP ... B-04 MB Square Flange Rear Panel Mount Receptacle with Threaded or Through Mounting Holes



APPLICATION NOTES

- Square flange rear mounted receptacle with threaded (2E) or Through (2EFP) mounting holes.
- Material/Finish:
 Shell - Aluminum alloy/olive drab passivation.
 Insert - PTFE (Teflon)/N.A.
 Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

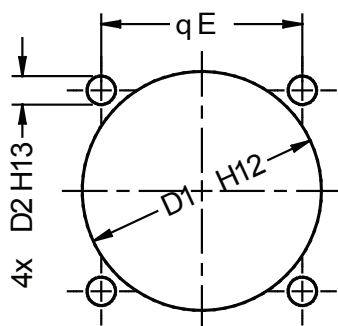
Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

IGE 2E ... B-04 and IGE 2EFP ... B-04 MB Square Flange Rear Panel Mount Receptacle with Threaded or Through Mounting Holes

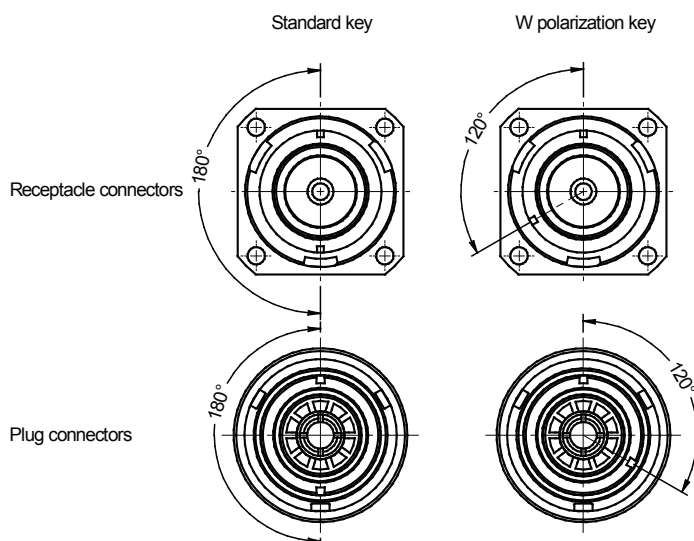


VG96929
Connectors

DIMENSIONS										
Cable mm ²	Size	D1 ±0.3 (FP) H 13	D2 ±0.1 5	E ±0.1	L1 max	L2 ±0.4	L3 ±0.3	L4 ±0.3	Weight for Alloy Version (gr. max)	
25	16	M4	4.3	22.2	24.6	41.0	20.00	3.2	32.5	50
50	18	M4	4.3	27.0	27.0	50.0	23.15	4.0	35.0	86
95	22	M4	4.3	34.9	31.8	54.0	23.15	4.0	41.0	127
150	28	M5	5.3	44.4	39.7	65.3	24.15	4.0	50.8	250
240	32	M5	5.3	49.2	44.5	66.8	29.00	4.0	57.0	305



Panel Cut-Out						
Size	D1		A2	D2 C2	B1 C1	E
	Front	Back				
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5



Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°



IGE 0E ... ZL

Square Flange Rear Panel Mount Receptacle with Rapid Bayonet Joint

Basic
Part Number

IGE

Connector
Size

0E

Contact
Size

22

Bayonet
Coupling

Z

Omit for
Standard

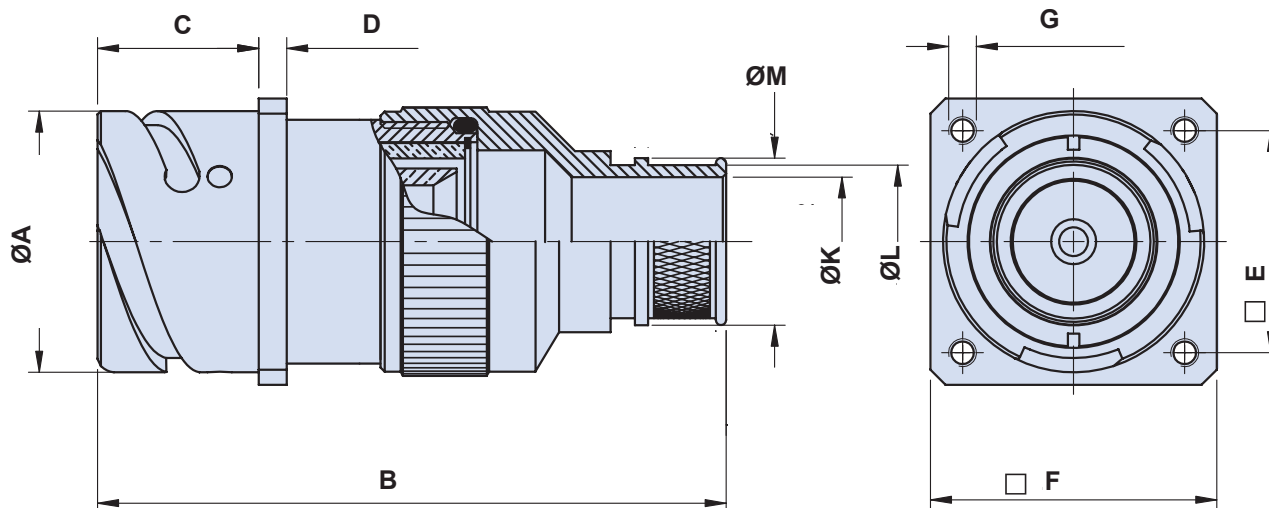
B - 04

MB

0E - Fixed Connector with
Square Flange with 4
Threaded Holes for Rear
Panel Mounting

F - Socket Contacts
Z - Pin Contacts

Backshell for Use with
Heat Shrink Boot
ZL - without **BAND-IT**[®]
ZLF - with **BAND-IT**[®]



APPLICATION NOTES

- Square flange rear mounted receptacle with adapter for EMI/RFI braided shield using stainless steel **BAND-IT**[®] band and shrink boot.
- Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

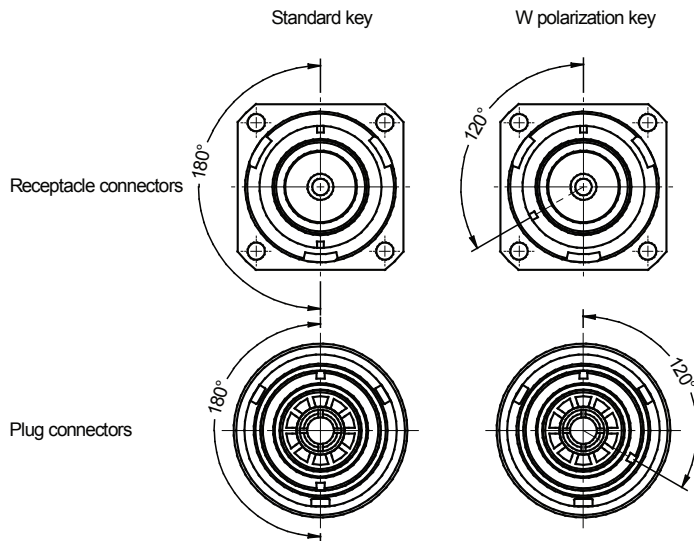
IGE 0E ... ZL Square Flange Rear Panel Mount Receptacle with Rapid Bayonet Joint



VG96929
Connectors

DIMENSIONS												
Cable mm ²	Size	ØA 0 / -0.1	B Max	C ±0.2	D ±0.2	E ±0.1	F ±0.2	G Thread	ØK ±0.1	ØL ±0.1	ØM ±0.1	Weight for Alloy Version (gr. max)
95	22	37.4	90	23.05	4.0	31.8	41.0	M4	19.0	21.7	23.3	170

Please consult the factory for additional sizes.



Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

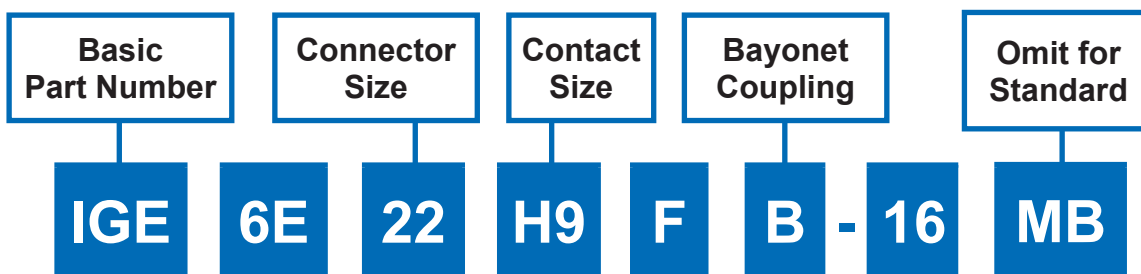
N: 180°

W: 120°



IGE 6E ... 03-16

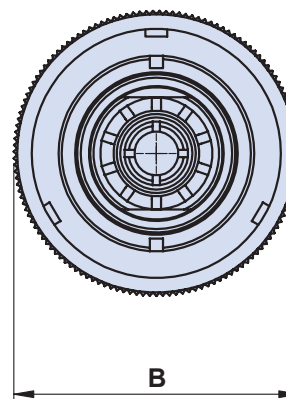
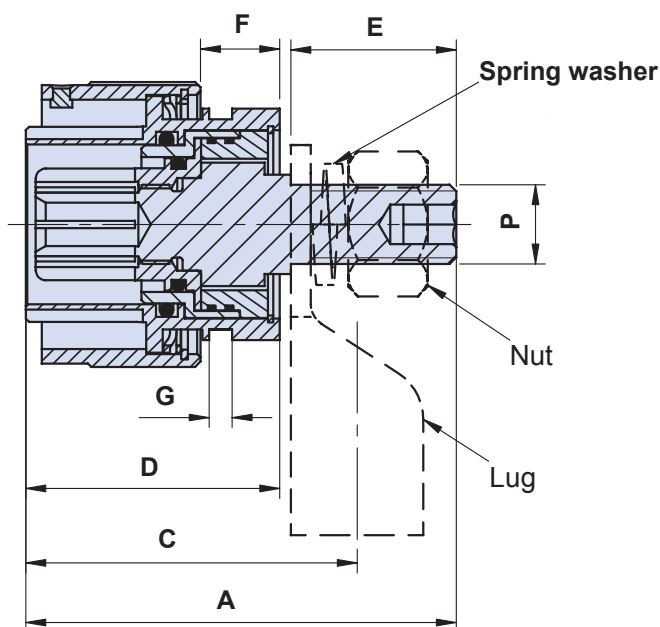
Straight Plug with Rapid Bayonet Joint



6E - Straight Plug Connector, with Threaded Contact Suitable for Lug Type Termination. To be used with Heat Shrinkable Tubing.

F - Socket Contacts
Z - Pin Contacts

16 - Threaded Contact on the Plug Connector



APPLICATION NOTES

1. Straight plug connector with special threaded contact suitable for lug type termination.
2. Material/Finish:
Shell - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
3. All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

IGE 6E ... 03-16

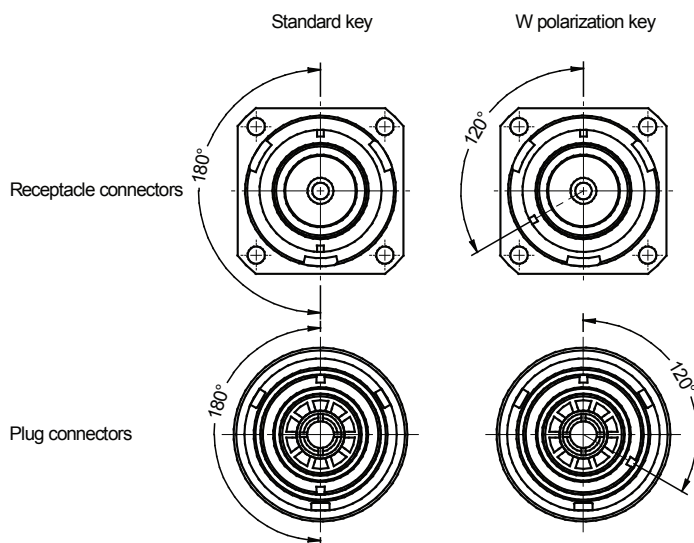
Straight Plug with Rapid Bayonet Joint



VG96929
Connectors

DIMENSIONS										
Cable mm ²	Size	A 0 / -0.1	B Max	C ±0.1	D ±0.1	E ±0.1	F ±0.1	G ±0.1	P Thread	Weight for Alloy Version (gr. max)
95	22	37.4	43.2	50.1	38.5	25.0	12.0	3.5	H12	180

Please consult the factory for additional sizes.



Alternate Keyway Positions

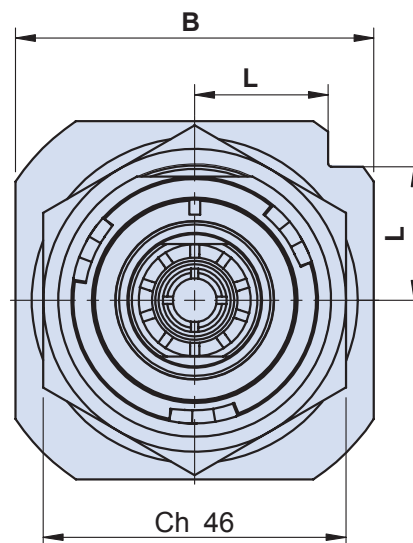
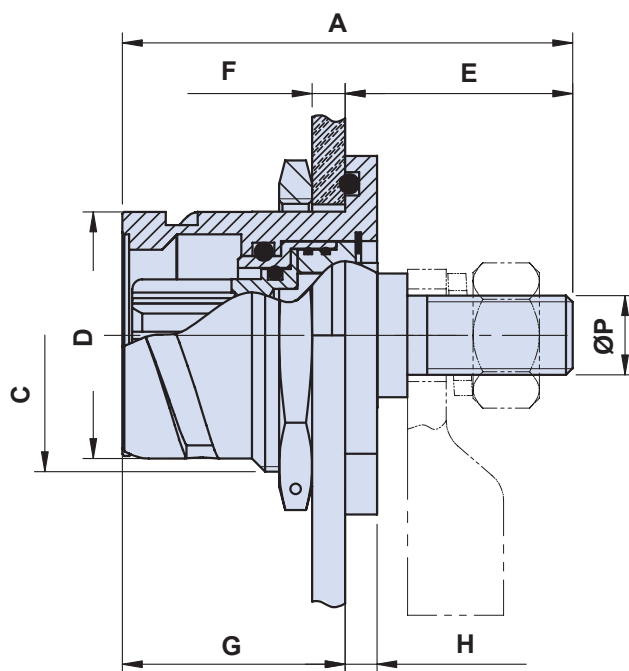
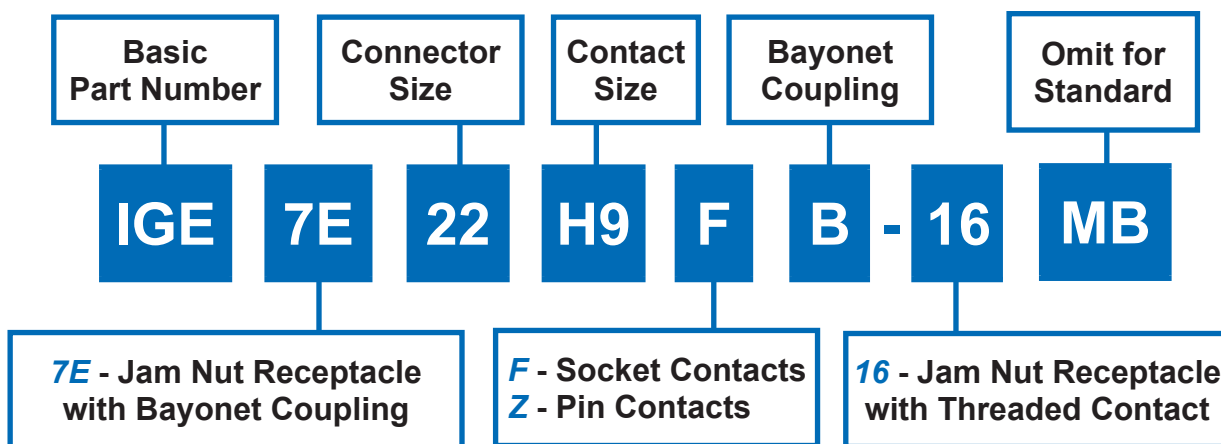
To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°



IGE 7E Jam Nut Receptacle with Rapid Bayonet Joint



APPLICATION NOTES

- Jam nut receptacle with rapid bayonet coupling, central power contact, single pole, double crown and threaded end termination.
- Material/Finish:
Shell, adapter and coupling nut - Aluminum alloy/olive drab passivation.
Insert - PTFE (Teflon)/N.A.
Contact - Copper alloy/silver plating (See pages 5 and 6 for additional contact information).
- All dimensions are metric unless otherwise noted.

STANDARD FINISH (For QQ-A-591 Aluminum Shells)

Requirements	Cadmium with Olive Drab Passivation IAW QQ-P-416
Thermal Shock	-55°C + 125°C
Salt Spray After Thermal Shock	500 hour
Electrical Conductivity	Very Good
Abrasion Resistance	Very Good

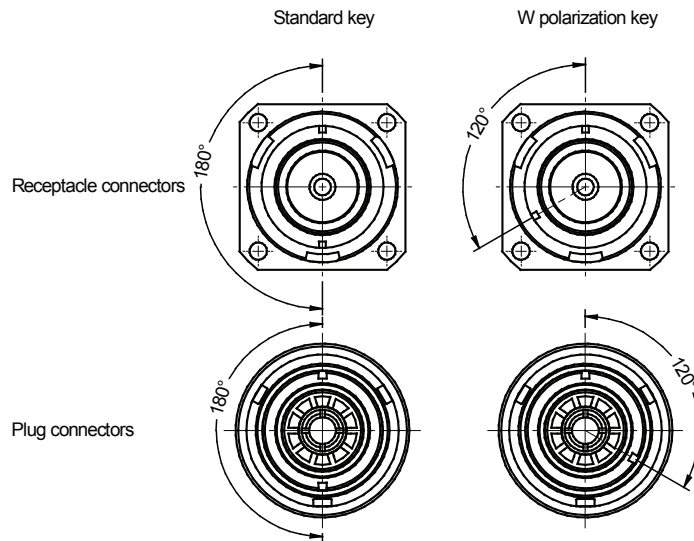
IGE 7E Jam Nut Receptacle with Rapid Bayonet Joint



VG96929
Connectors

DIMENSIONS													
Cable mm ²	Size	ØA ±0.1	B ±0.2	P Metric Thread	C Inches	ØD 0 / -0.1	E ±0.1	F ±0.2	G ±0.2	H ±0.2	L ±0.1	Ch	Weight for Alloy Version (gr. max)
95	22	68.0	54.0	M12	1 5/8 - 18	4.0	34.0	24 ÷ 9.1	33.7	4.8	20.0	Ch 46	150

Please consult the factory for additional sizes.



Alternate Keyway Positions

To avoid mismatching of similar connectors, VG96929 connectors are available with keyway in two different positions as shown below:

N: 180°

W: 120°

ITS 05 - XX Dummy Storage Receptacle

Basic
Part Number

Shell
Size

ITS

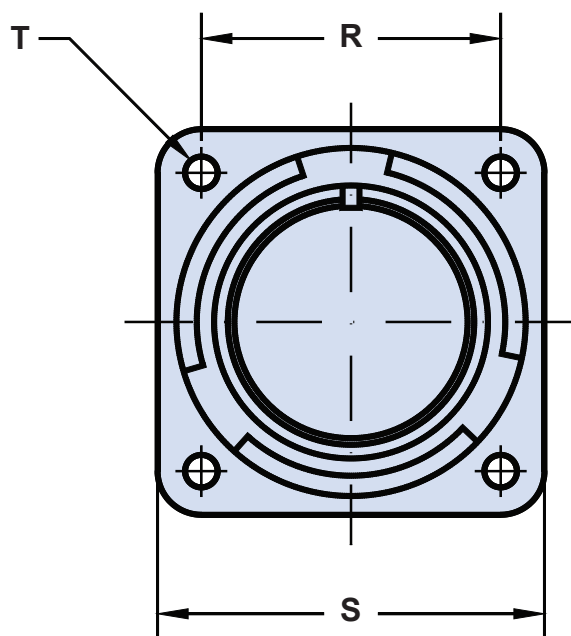
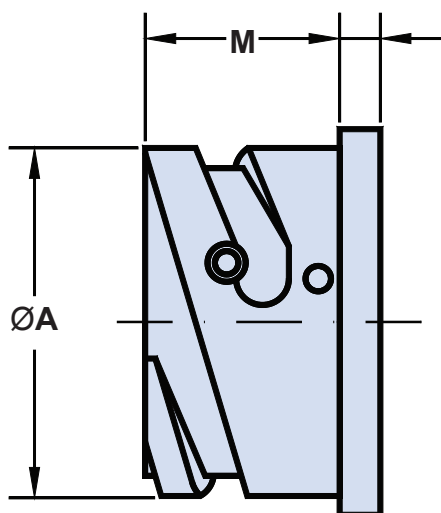
05

- 22

MB

**05 - Dummy
Receptacle**

**Omit for
Standard**



APPLICATION NOTES

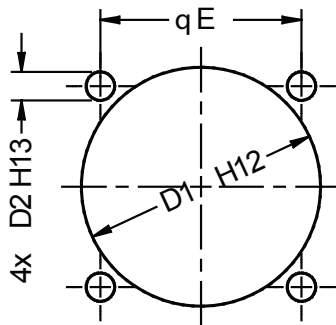
1. Dummy receptacle to protect the plug connector when not in use.
2. Material/Finish:
Shel1 - Aluminum alloy/olive drab passivation.
3. All dimensions are metric unless otherwise noted.

ITS 05 - XX Dummy Stowage Receptacle



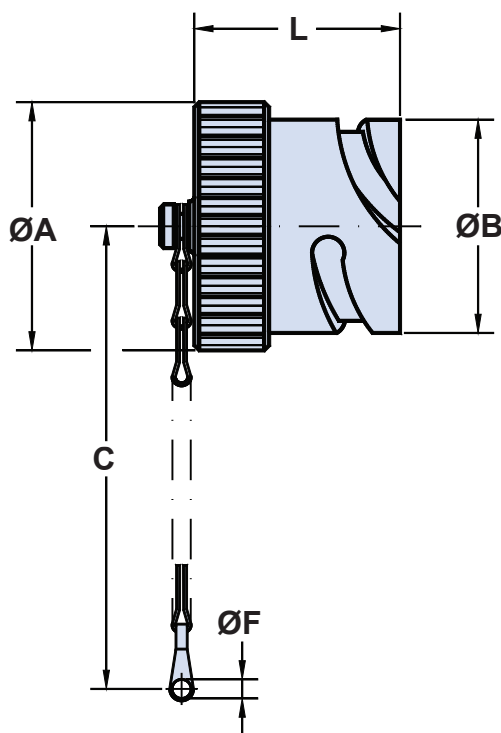
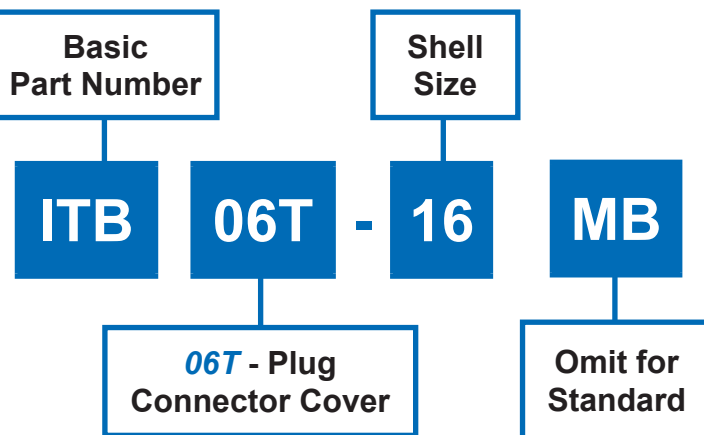
VG95234
Accessories

DIMENSIONS								
Part Number	Shell Size	$\varnothing A$ +0 -0.1	K ± 0.2	M +0.2 -0	R ± 0.1	S +0.2	$\varnothing T$ +0.1 -0	Weight (gr. max)
ITS 05-16	16	27.2	3.3	14.5	24.60	32.5	3.2	25
ITS 05-18	18	30.7	4.0	19.1	27.00	35.0	3.2	35
ITS 05-22	22	37.3	4.0	19.6	31.75	41.0	3.2	45
ITS 05-28	28	46.7	4.0	20.7	39.70	50.9	3.7	60
ITS 05-32	32	53.4	4.0	22.3	44.5	57.0	4.3	70



Panel Cut-Out						
Size	D1		D2		B1 C1	E
	Front	Back	A2	C2		
16	-	27.7	M4	M4	4.5	24.6
18	27.4	31.1	M4	M4	4.5	27.0
22	33.7	37.8	M4	M4	4.5	31.8
28	43.3	47.1	M4	M5	5.5	39.7
32	49.7	53.8	M4	M5	5.5	44.5

ITB 06T
Plug Connector Cover
with Stainless Steel Chain



APPLICATION NOTES

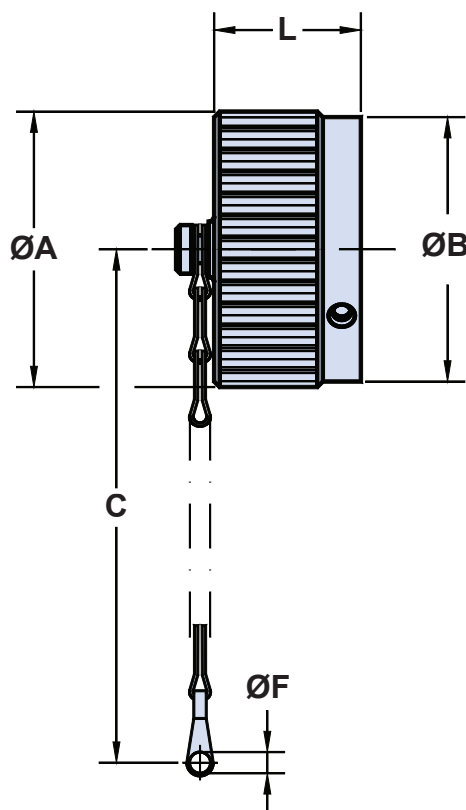
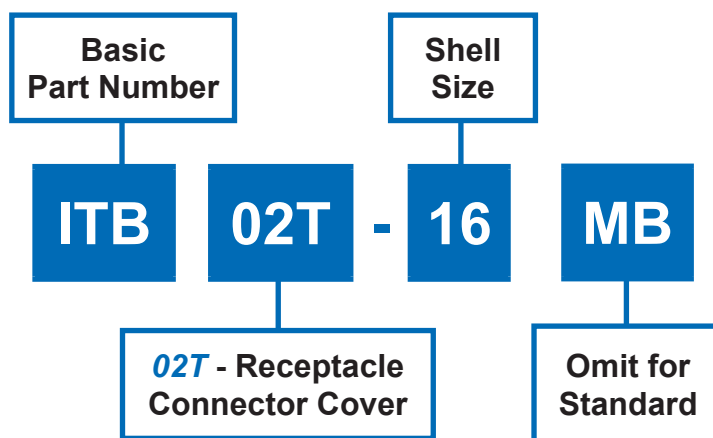
1. Plug Connector Cover with stainless steel chain.
2. Material/Finish:
Cover - Aluminum alloy/olive drab passivation.
Chain - Stainless steel/passivated.
3. All dimensions are metric unless otherwise noted.

DIMENSIONS

Part Number	Shell Size	ØA max	ØB ±0.1	C min	ØF +0.2 -0	L max	Weight (gr. max)
ITB 06T-16	16	32.5	27.4	123	4.3	24.0	35
ITB 06T-18	18	36.4	30.8	123	4.3	33.0	45
ITB 06T-22	22	43.5	37.4	138	4.8	33.0	55
ITB 06T-28	28	54.0	46.7	206	4.8	33.0	70
ITB 06T-32	32	60.0	53.4	206	5.6	34.2	80

Glennair®

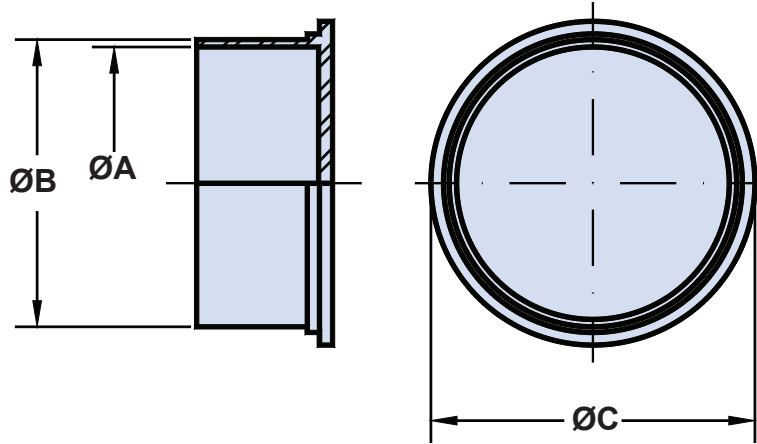
VG95234 Accessories



DIMENSIONS

- | Part Number | Shell Size | ØA max | ØB ±0.1 | C min | ØF +0.2 -0 | L max | Weight (gr. max) |
|-------------|------------|--------|---------|-------|------------|-------|------------------|
| ITB 02T-16 | 16 | 32.5 | 31.6 | 108 | 4.3 | 15.5 | 20 |
| ITB 02T-18 | 18 | 36.4 | 35.1 | 123 | 4.3 | 21.2 | 25 |
| ITB 02T-22 | 22 | 43.5 | 41.7 | 123 | 4.3 | 21.2 | 30 |
| ITB 02T-28 | 28 | 54.0 | 52.0 | 206 | 5.68 | 21.2 | 40 |
| ITB 06T-32 | 32 | 60.0 | 58.7 | 206 | 5.6 | 21.2 | 50 |

**IT 90376 ... Y/R and TP02
Protective Plastic Dust Cover
for Plug or Receptacle Connectors**



DIMENSIONS				
Part Number	Style and Shell Size	ØA ±0.25	ØB ±0.25	ØC ±0.78
IT90376-18Y	Receptacle 16	26.11	27.63	31.75
TP02-18	Receptacle 18	30.40	33.15	37.00
IT90376-24R	Receptacle 22	37.16	38.94	43.18
TP02-28	Receptacle 28	46.45	49.05	52.00
TP02-32	Receptacle 32	53.15	55.75	60.00
IT90376-16R	Plug 16	23.80	29.29	30.99
IT90376-18R	Plug 18	27.76	29.34	33.78
IT90376-22R	Plug 22	34.04	35.81	40.38
IT90376-28R	Plug 28	43.56	45.46	49.53
IT90376-32R	Plug 32	49.91	51.82	56.39

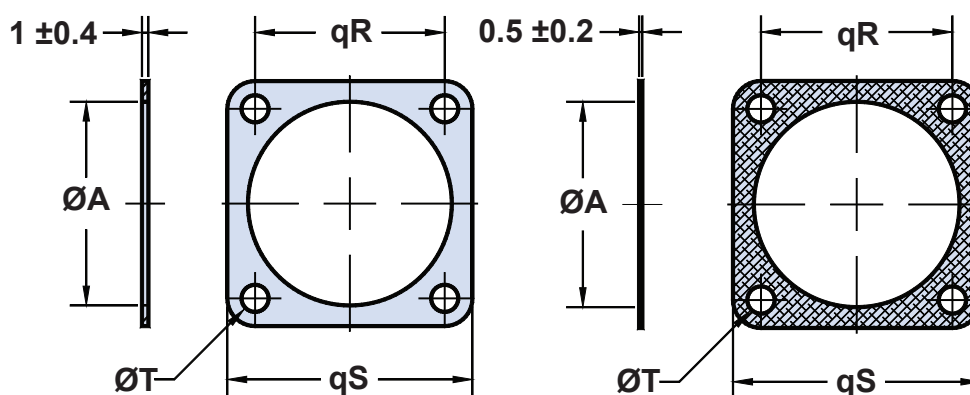
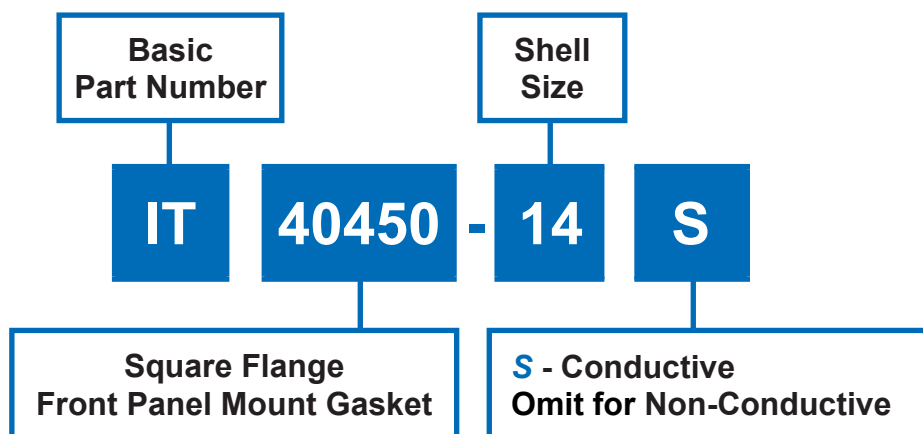
APPLICATION NOTES

1. Protective Plastic Dust Cover.
2. All dimensions are metric unless otherwise noted.

IT 40450-XX or IT 40450-XXS
Fixed Connector Gasket
for Square Flange Front Panel Mounting



VG95234
Accessories

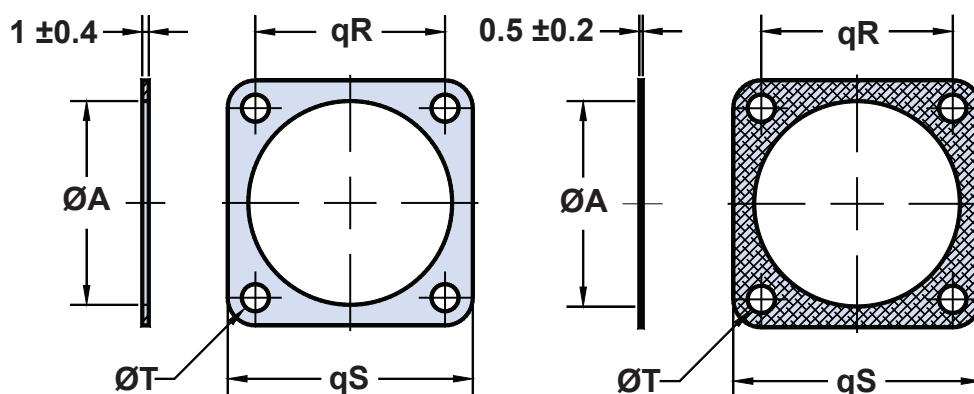
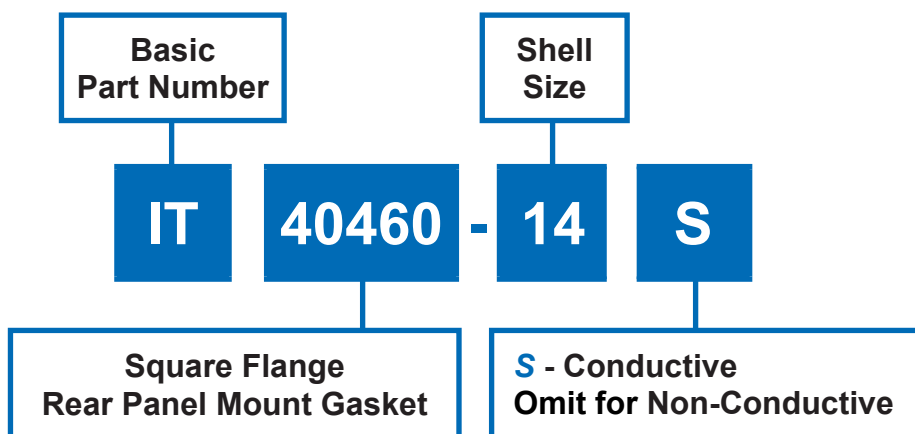


DIMENSIONS					
Part Number	Shell Size	ØA +1	R ±0.2	S ±0.5	ØT +0.5
IT40450-10	10SL	15.7	18.2	25.4	4.2
IT40450-14	14S	22.1	23.0	30.0	4.2
IT40450-16	16S-16	25.3	24.6	32.5	4.2
IT40450-18	18	28.4	27.0	35.0	4.2
IT40450-20	20	31.6	29.4	38.0	4.2
IT40450-22	22	34.8	31.8	41.0	4.2
IT40450-24	24	38.0	34.9	44.5	4.2
IT40450-28	28	44.3	39.7	50.8	5.1
IT40450-32	32	50.7	44.5	57.0	5.1
IT40450-36	36	57.0	49.2	63.5	5.1
IT40450-40	40	61.9	55.5	69.9	5.1

APPLICATION NOTES

1. Conductive or non-conductive gasket for square flange front panel mounted connectors.
2. All dimensions are metric unless otherwise noted.

IT 40460-XX or IT 40460-XXS
Fixed Connector Gasket
for Square Flange Rear Panel Mounting



DIMENSIONS					
Part Number	Shell Size	ØA +1	R ±0.2	S ±0.5	ØT +0.5
IT40460-10	10SL	18.2	18.2	25.4	4.2
IT40460-14	14S	24.6	23.0	30.0	4.2
IT40460-16	16S-16	27.4	24.6	32.5	4.2
IT40460-18	18	30.8	27.0	35.0	4.2
IT40460-20	20	34.2	29.4	38.0	4.2
IT40460-22	22	37.4	31.8	41.0	4.2
IT40460-24	24	40.9	34.9	44.5	4.2
IT40460-28	28	46.7	39.7	50.8	5.1
IT40460-32	32	53.4	44.5	57.0	5.1
IT40460-36	36	59.6	49.2	63.5	5.1
IT40460-40	40	65.5	55.5	69.9	5.1

APPLICATION NOTES

1. Conductive or non-conductive gasket for square flange rear panel mounted connectors.
2. All dimensions are metric unless otherwise noted.

Other Ruggedized Electrical Power and Signal Connectors for Rail, Mass Transit, Industrial and Military Applications

Glenair manufactures a broad range of qualified electrical power and signal connectors for electrical vehicles, industrial equipment, as well as rail, mass-transit and harsh environment military applications. Many of the connector products, backshells and accessories are manufactured to comply with the MIL-DTL-5015 or MIL-DTL-26482 specifications, which include hundreds of versatile power and signal connector designs ideally suited for electrical power and signal interconnect cabling. The addition of reverse bayonet coupling to these robust military style connectors improves their reliability and mating performance in rugged, vibration and shock applications. Glenair is also able to offer many of these same connector families qualified to NATO and VG standards including VG95234 and VG95328. Specialty application connectors, such as our popular VG qualified CB connector for radio and audio applications are also available.

The Glenair Power Product Group has been manufacturing these products since 1985 in the company's facility located in Bologna, Italy. The Power Product Group factory consists of two 4000 square meter plants in Villanova and Fossatone which are certified to UNI EN ISO 9001, NATO AQAP110 and ISO 9001:2000.

A worldwide sales and support network, including dedicated teams in Italy and the United States provides application engineering and order assistance. Glenair's worldwide network of sales and support professionals are also factory trained to support the Power Product Groups entire line of ruggedized electrical power and signal connectors, cables and power distribution products.

The Glenair Power Product Group Line



ITS Connector Series

The Glenair ITS connector series is based on the MIL-DTL-5015 standard, but feature an improved reverse bayonet coupling technology in place of the threaded coupling used in MIL-DTL-5015. The 3-point bayonet coupling mechanism reduces coupling time and provides easier mating when the connector is in an awkward position. Positive locking of the three stainless steel pins provides reliable resistance to vibration and shock, and prevents connector de-coupling in even the most rugged applications such as locomotives, mass-transit cars and military vehicles. The products are qualified to the VG 95234 standard. The ITS-RG Series incorporates a ruggedized outer coating of rubber for additional mechanical strength and to prevent shell damage due to rough handling.



ITH Series

The ITH Series is most notable for its rigid inserts and crimp contacts that provide both better electrical insulation as well as reduced assembly time. The reverse bayonet ITH Series connector is also based on the MIL-DTL-5015 standard, but supports only a reduced selection of insert arrangements. All connectors in the series conform to the NATO VG95234, French (NFF 61030) and British (BS 6853) electrical standards, as well as EEC compliance directives for electromagnetic compatibility. EMI shield termination accessories are available for both overall as well as individual wire shields.



IPT and IPT SE Bayonet-Lock Connectors

The Glenair IPT series is built in accordance with MIL-C-26482 and is applied in countless applications where reliability and miniaturization are required. Used in military applications, the IPT series features reliable coupling and a complete range of backshell accessories. A VG qualified version of the product, VG95328 is also available.



IGE Series Connectors

Our IGE series connector delivers outstanding performance in high-current power applications, mainly in military systems such as ground-vehicle support. IGE series connectors are used for the transmission of high currents with low voltage such as is required in military vehicles or industrial equipment. The connector uses a unipolar contact junction with high performance dielectric materials. Several O-rings inside and outside the connectors provide watertightness up to 1 bar, while the bayonet coupling system avoids accidental unmatings in high-vibration applications.



UniPower™ Single Pole Connectors

UniPower™ is a single pole electrical connector used by the entertainment, construction and power utility industries for temporary high current applications. Glenair UniPower™ Power Distribution Connectors provide safe and reliable power distribution connections, typically in threephase or other polyphase power distribution systems. CE Approved for use in Europe only. Consult factory for other regional approvals.



CB Series "PogoPin" Connectors

The Glenair CB connector is designed to address audio equipment and field radio interconnect requirements in military and other demanding applications. The ultra-miniature reverse bayonet connector utilizes spring-loaded, wiping contacts that ensure reliable electrical and environmental performance with each mating. The product is qualified to the VG95351 and VG96934 standards.



IT Connector Series

The Glenair IT series conforms to the MIL-DTL-5015 threaded-coupling connector standard for power and signal applications in both industrial and military applications. Insert arrangements from 1 to 150 contacts, with contact sizes from 20 awg to 4/0 awg are available. These connectors are intermateable with other industry standard MIL-DTL-5015 connector families. A wide range of connector backshells and accessories are available, including protective covers for both plugs and receptacles.



ITZ Series Connectors

The need for a threaded MIL-DTL-5015 type connector with an improved double-start stub ACME style thread profile led to the development of the Glenair ITZ connector series. Available in the complete range of 5015 insert arrangements, this connector family offers faster and more reliable coupling than standard, fine-thread MIL-DTL-5015 connectors.

CSOX

CSOX is a worldwide standard for the connection of lighting equipment in the show-business field.



VG95234 (German Military BWB)

The VG95234 is the German military BWB standard equivalent of our commercial ITS reverse bayonet connector. As with the ITS, the series is based on the MIL-DTL-5015 standard, but feature an improved reverse bayonet coupling. The 3-point bayonet mechanism reduces coupling time and provides easier mating when the connector is in an awkward position. Positive locking of the three stainless steel pins provides reliable resistance to vibration and shock, and prevents connector de-coupling in even the most rugged applications such as military vehicles.



VG95328 Qualified Bayonet-Lock Connectors

The Glenair Series VG95328 Bayonet-Lock Signal Connector is ideally suited for all general and environmental applications that require a high-performance military type cylindrical connector with crimp-removable contacts. Qualified to VG95328, the bayonet mechanism provides fast and easy coupling, especially when the connector is situated in an awkward or hard to reach location.

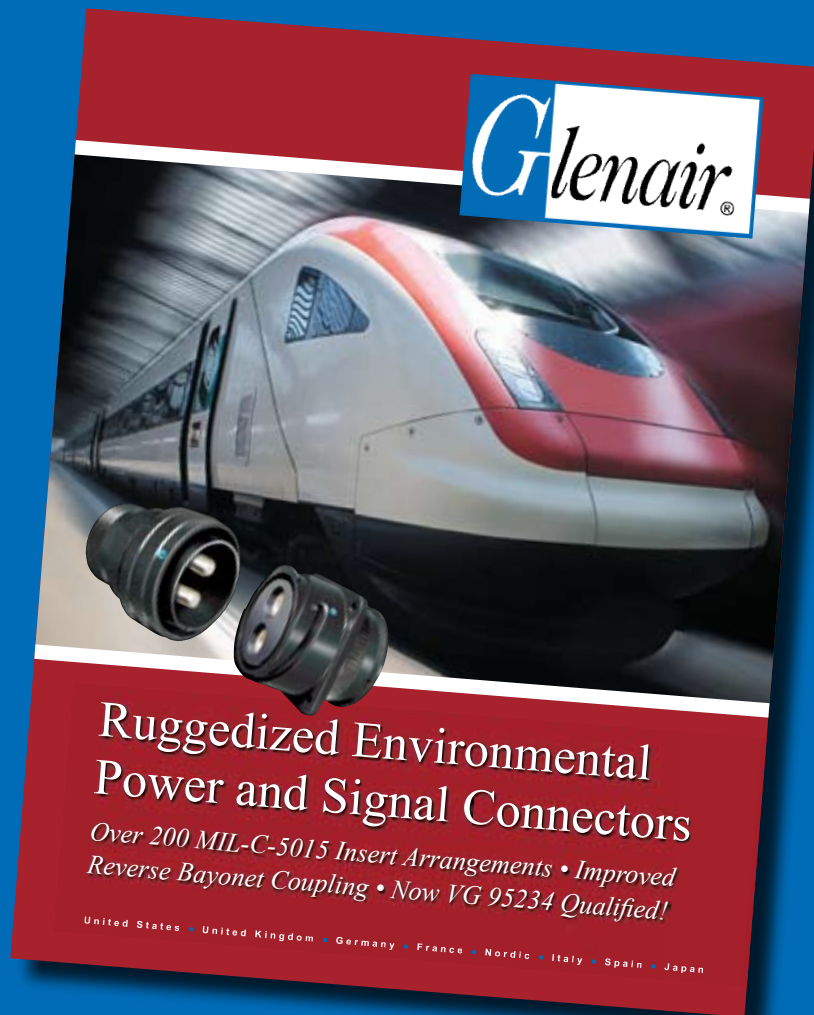


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More Options Than Ever Before!

Glenair Commercial Series ITS Reverse Bayonet Connectors



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