

IPT and IPT SE Bayonet-Lock Connectors

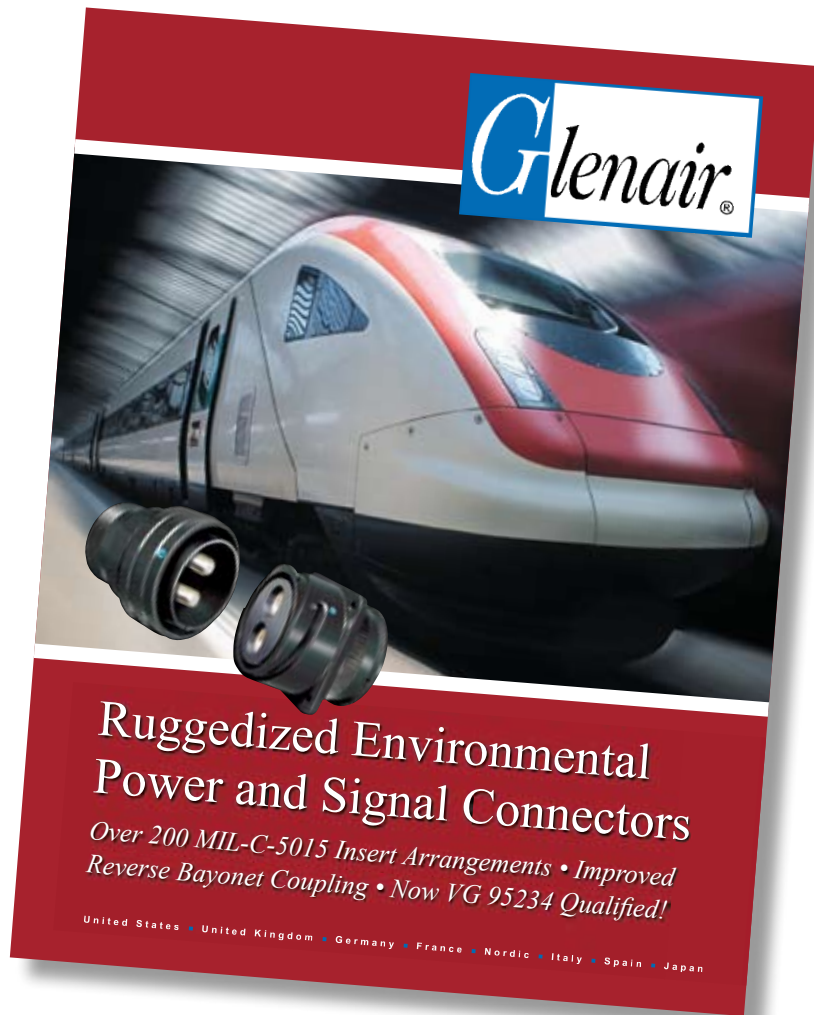
*High-Density MIL-C-26482 Type Connectors—VG95328
Qualified for Rugged Military and Industrial Applications*

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Glenair Series ITS

Reverse Bayonet Connectors



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A World of Interconnect Solutions

**Glenair IPT SE and IPT Series
Bayonet-Lock Connectors (MIL-C-26482 Type)
Table of Contents**



IPT SE Series

High Performance
Crimp Contact
MIL-C-26482 Type
Bayonet Connector

Section A



IPT Series

General Duty
Solder and Crimp Contact
MIL-C-26482 Type
Bayonet Connector

Section B



IPT SE and IPT
Connector Accessories
and Tools

Section C



IPT SE and IPT
Product Index

Section D



Glenair IPT SE and IPT Series Bayonet-Lock Connectors (MIL-C-26482 Type) Product Features and Specifications

Glenair IPT and IPT SE series connectors offer rugged, high vibration performance and rapid mating for both high-performance and general duty signal connector applications. The products are environmentally sealed and can be equipped with EMI/RFI shield termination backshell accessories. IPT SE is qualified to VG 95328. Both product series are in accordance with MIL-C-26482.

IPT AND IPT SE PRODUCT FEATURES AND SPECIFICATIONS

Feature	Description
Applications	Factory equipment, off-road vehicles, military vehicles, sensors, power generators, and other industrial applications
Shell Construction	Aluminum shell bodies provide durable performance in a lightweight package
Mating System	Three pin bayonet system, 1/2 turn to full mate.
Shell Surface Coatings	A range of conductive and non-conductive surface coatings including standard Cadmium finishes as well as RoHS compliant electrostatic paint.
Environmental Sealing	Individual wire sealing grommets and optional environmental backshells provide moisture protection to IP67.
Temperature Tolerance	F6, F7 and G3 plated connectors are tested to -55°C to 125°C. F2 and F8 plated connectors are tested to -40°C + 100°C.
Contacts	High performance crimp contacts and retention clips (IPT SE) and general duty crimp and solder contacts (IPT)
Contact Plating	Copper alloy with gold plating
Wire Gage	Contacts support wire sizes #16 - #20 gage (Size 16) and #20 - #24 (size 20)
Insert Materials	Resilient high-insulation synthetic insert (neoprene). IPT SE version includes hard plastic retention clip retainer.
Insert Arrangements	IPT SE: 18 different power and signal insert arrangements, featuring 16 and 20 gage contacts; 3 to 61 contacts. IPT: 44 different power and signal insert arrangements, featuring 16 and 20 gage contacts; 2 to 61 contacts.
EMI Shielding	Shield termination backshell accessories are available for all plug and receptacle configurations
Shell Styles	Complete range of shell styles is available, including front and rear mount flange receptacles, jam nut receptacles, bulkhead feedthrus, and straight and 90° plugs.
Polarization	5 keyway configuration with optional polarization.
Approvals	IPT SE is qualified to VG 95328. Both IPT and IPT SE meet all requirements of MIL-C-26482
Intermateability	Intermateable with all industry standard bayonet connectors designed to MIL-C-26482 and VG 95328 including Veam VPT, Amphenol PT and ITT Cannon KPT.

Glenair IPT SE Series
High Performance Crimp Contact
Bayonet-Lock Signal Connectors (MIL-C-26482 Type)



IPT SE Series
 Bayonet Lock
 Connectors

IPT SE Brings High-Performance Crimp Contact Termination to MIL-C-26482 Bayonet Connectors

Harsh Application Environments

The Glenair Series IPT SE 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.

Environmental protection to IP67 levels provides additional reliability and the flexibility to specify these rugged connectors in harsh

applications such as in machine tools and factory automation. Supplied crimp contacts are gold-plated copper alloy. Inserts are made from high-insulation synthetic rubber, oil and temperature resistant to -55° C to +125° C.

Intermateability

The Series IPT SE Connector is interchangeable and intermateable with the wide range of industry-standard bayonet connectors designed around MIL-C-26482 and/or qualified to VG 95328, including ITT Cannon KPT.

High Performance Crimp Version with Contact Retention Clips and Sealed Inserts—2 Contact Sizes: #20 and #16.

18 Signal Contact Insert Arrangements, 3 to 61 Contacts

Rear-Insertion/Front Release Snap-In Contacts

Intermateable with Other MIL-C-26482 Products

Ruggedized Contact Retention Clip

Environmentally Sealed System

Audible and Visual Coupling Indicators

Keyed Polarization

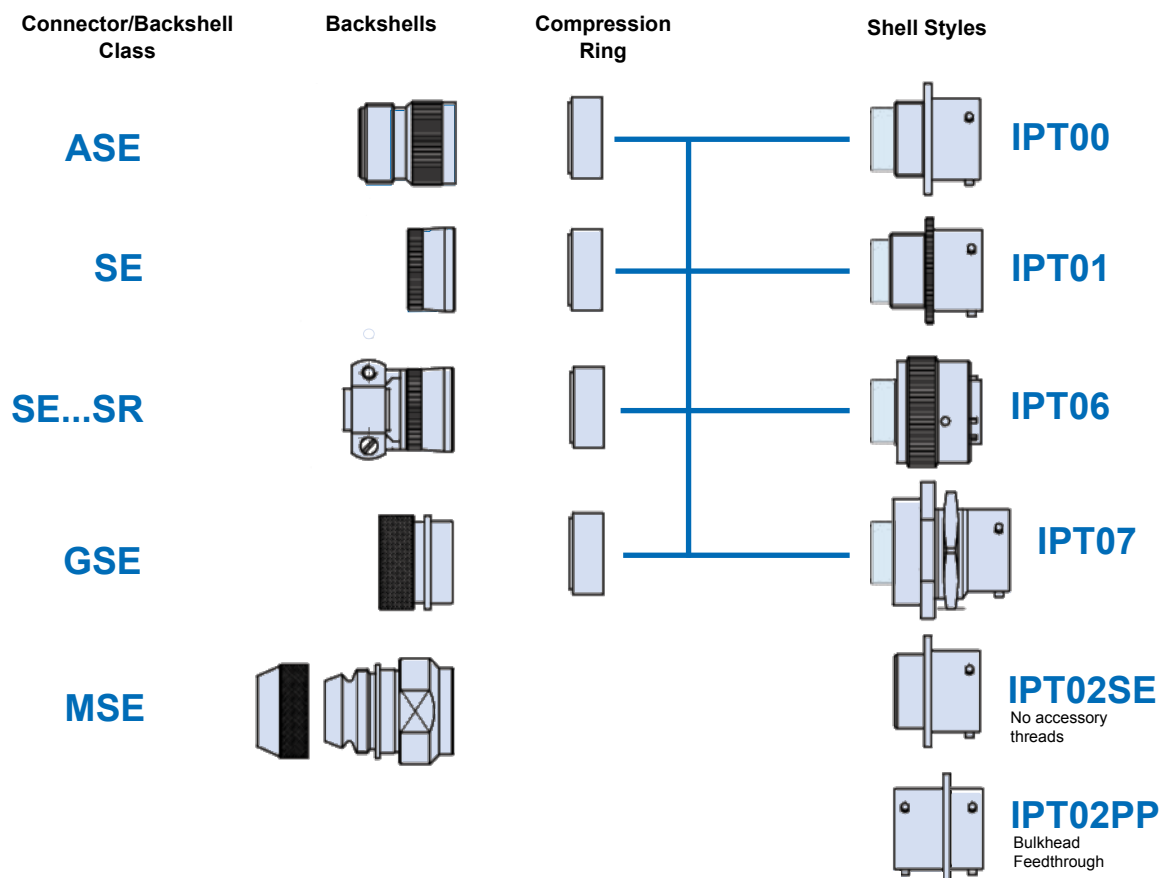


STANDARD FINISHES (For QQ-A-591 Aluminum Shells)

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good



Glenair IPT SE Series Bayonet-Lock High Performance Crimp Contact (MIL-C-26482 Type) Styles and Classes



ASE: For general-duty applications. This connector-backshell assembly is supplied with a general-duty backshell for the attachment of additional accessories such as MS 3057 cable clamps (ordered separately). Individual wire sealing grommet supplied.

SE: For general-duty environmental applications using unjacketed wire bundles. Additional environmental sealing is provided through an individual wire sealing grommet in the connector and an overall cable grommet seal in the backshell. No cable clamp supplied.

SE...SR: Same as class SE, but with cable clamp and bushing for strain-relief.

GSE: Plug with straight backshell for heatshrink boot.

MSE: Plug with backshell for EMI shield termination and/or heatshrink boot.

Glenair IPT SE Series Bayonet-Lock High Performance Crimp Contact (MIL-C-26482 Type) Technical Data

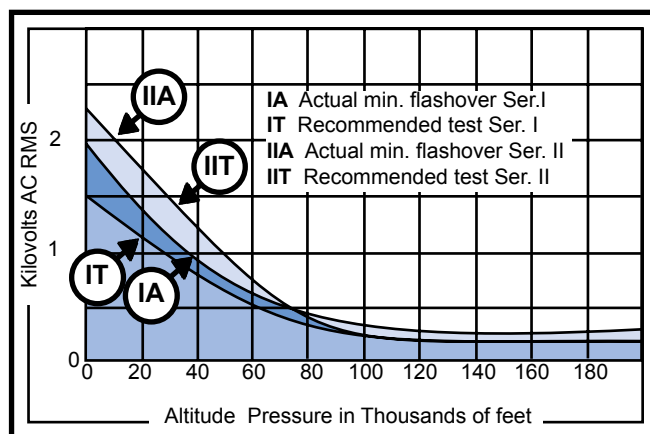
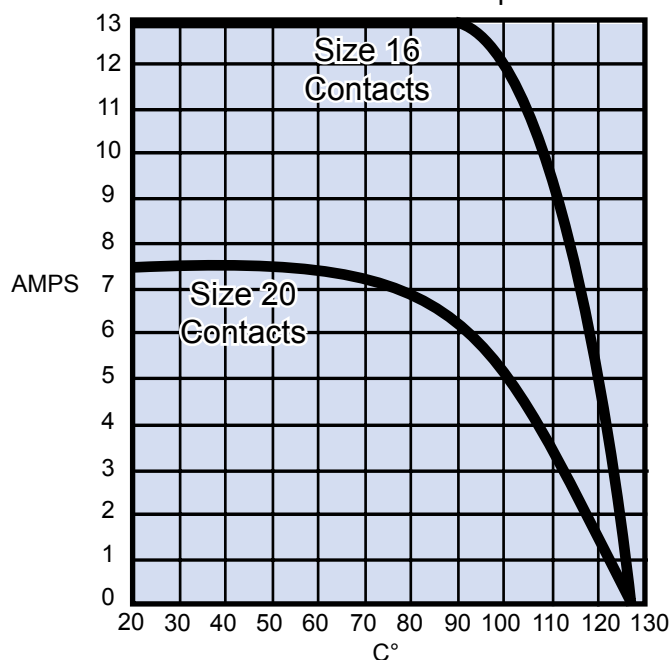


IPT SE Series
Bayonet Lock
Connectors

Service Rating			
Class	Operating voltage AC	Operating voltage DC	Test voltage AC
I	600	700	1500
II	1000	1250	2300

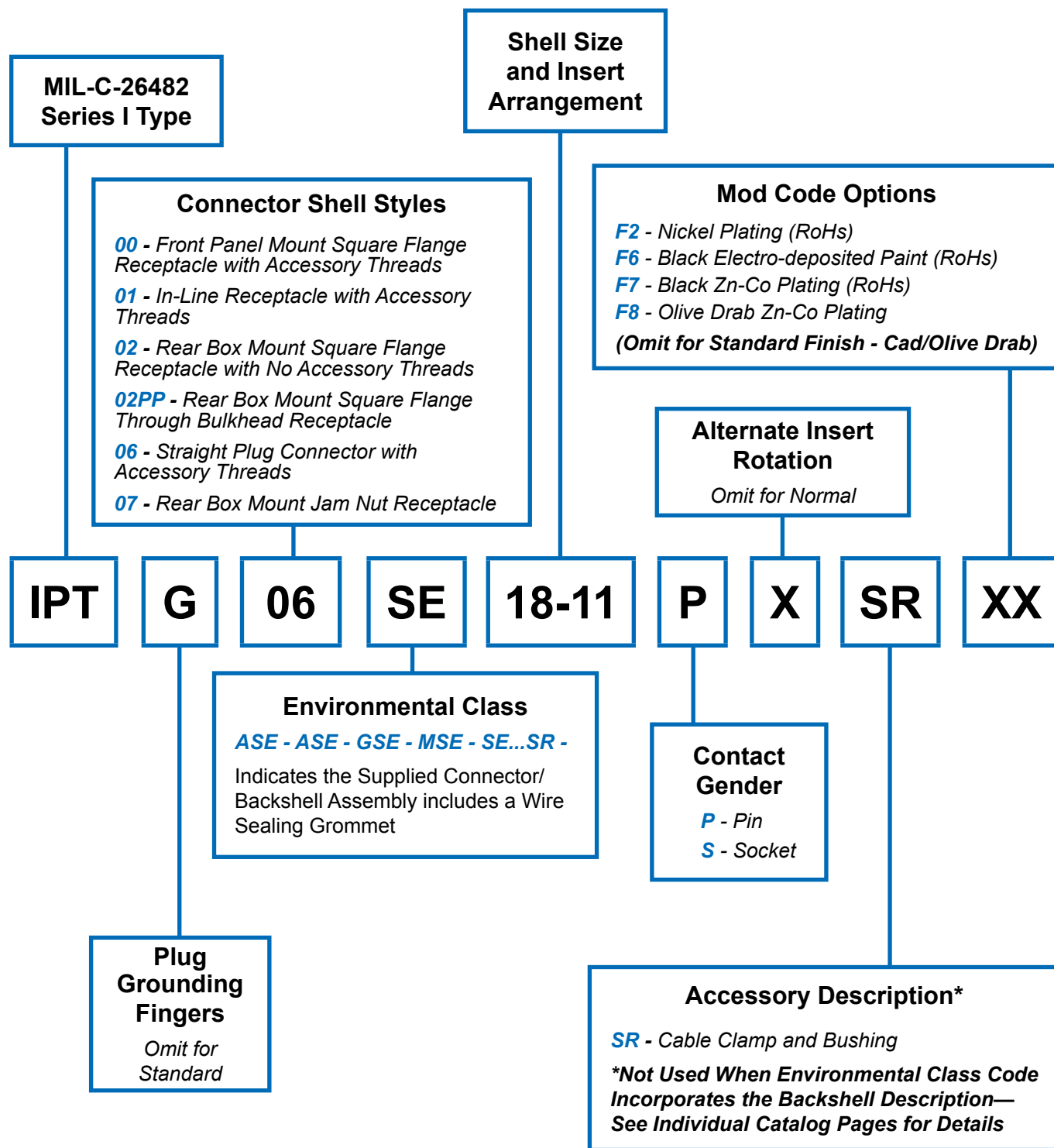
Potential Drop		
Contact size	Test current	Potential drop
20	7.5 A	25 mV
16	13.0 A	21 mV

Rated Current Versus Temperature





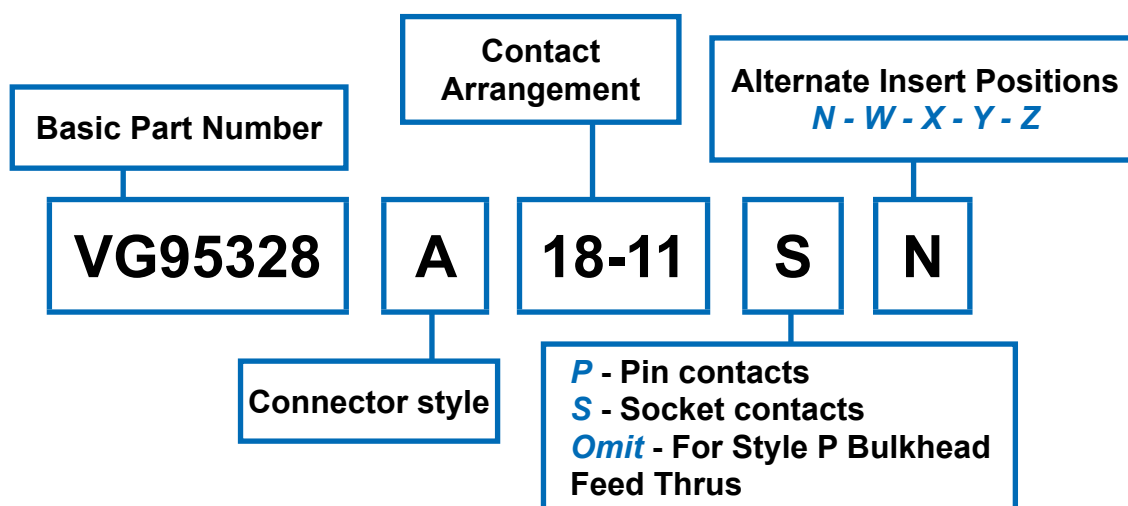
Glenair IPT SE Series Bayonet-Lock High Performance Crimp Contact (MIL-C-26482 Type) How to Order • Part Number Breakdown



VG95328 Part Number Cross Reference



IPT SE Series
Bayonet Lock
Connectors



Cross Reference		
<i>VG95328 Connectors</i>	<i>MS</i>	<i>Glenair</i>
<i>VG95328 A</i>	<i>MS 3120 E</i>	<i>IPT 00 SE</i>
<i>VG95328 B</i>	<i>MS 3120 F</i>	<i>IPT 00 SE ... SR</i>
<i>VG95328 C</i>	<i>MS 3122 E</i>	<i>IPT 02 SE</i>
<i>VG95328 D</i>	<i>MS 3124 E</i>	<i>IPT 07 SE</i>
<i>VG95328 E</i>	<i>MS 3124 F</i>	<i>IPT 07 SE ... SR</i>
<i>VG95328 F</i>	<i>N.A.</i>	<i>N. A.</i>
<i>VG95328 G</i>	<i>N.A.</i>	<i>N. A.</i>
<i>VG95328 H</i>	<i>MS 3112 E</i>	<i>IPT 02 E</i>
<i>VG95328 J</i>	<i>N.A.</i>	<i>IPT 06 GSE</i>
<i>VG95328 K</i>	<i>MS 3126 F</i>	<i>IPT 06 SE ... SR</i>
<i>VG95328 L</i>	<i>N.A.</i>	<i>N. A.</i>
<i>VG95328 M</i>	<i>N.A.</i>	<i>IPT G 06 MSE</i>
<i>VG95328 N</i>	<i>N.A.</i>	<i>IPT G 06 ASE</i>
<i>VG95328 P</i>	<i>MS 3119 E</i>	<i>IPT 02 PP</i>
<i>VG95328 R</i>	<i>N.A.</i>	<i>IPT 00 MSE</i>
<i>VG95328 S</i>	<i>N.A.</i>	<i>IPT 07 GSE</i>
<i>VG95328 T</i>	<i>N.A.</i>	<i>IPT 07 MSE</i>
<i>VG95328 U</i>	<i>N.A.</i>	<i>N. A.</i>
<i>VG95328 V</i>	<i>N.A.</i>	<i>IPT G 06 GSE</i>
<i>VG95328 W</i>	<i>N.A.</i>	<i>N. A.</i>

Cross Reference		
<i>VG95328 Accessories</i>	<i>MS</i>	<i>Glenair</i>
<i>VG95328 Z1 A</i>	<i>MS 3181 C</i>	<i>IPT 3181 C</i>
<i>VG95328 Z1 B</i>	<i>N.A.</i>	<i>IPT 3181 CF</i>
<i>VG95328 Z1 C</i>	<i>N.A.</i>	<i>N. A.</i>
<i>VG95328 Z2 A</i>	<i>MS 3180 C</i>	<i>IPT 3180 C</i>
<i>VG95328 Z2 B</i>	<i>N.A.</i>	<i>IPT 3180 CF</i>
<i>VG95328 Z2 C</i>	<i>N.A.</i>	<i>N. A.</i>
<i>VG95328 Z3 C</i>	<i>N.A.</i>	<i>IPT 3181 NF</i>
<i>VG95328 T07 A</i>	<i>N.A.</i>	<i>10-101949</i>
<i>VG95328 T07 B</i>	<i>N.A.</i>	<i>10-101949 S</i>
<i>VG95328 T07 C</i>	<i>MS 3115</i>	<i>IPT 3115</i>
<i>VG95328 T07 D</i>	<i>N.A.</i>	<i>N. A.</i>



Glenair IPT SE Series Bayonet-Lock High Performance Crimp Contact (MIL-C-26482 Type) Materials and Finishes

MATERIALS		
SHELLS	INSERTS (Temperature Range)	SURFACE FINISHES
Aluminum Alloy IAW QQ-A-591 Shells	High Insulation Synthetic Rubber (Chloroprene): -55°C/+125°C	Olive Drab Cadmium Plating IAW QQ-P-416
Stainless Steel Coupling Pins	High Insulation Synthetic Rubber (Fluoroelastomer): -55°C/+200°C	Bright Nickel Plating - F2 (RoHs)
Stainless Steel Spring	CONTACTS Copper Alloy with Gold Plating Over Nickel	Black Electrodeposited Paint - F6 (RoHs)
		Black Zn-Co Plating - F7 (RoHs)
		Olive Drab Zn-Co Plating - F8

STANDARD FINISHES (For QQ-A-591 Aluminum Shells)					
Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

MODIFICATION CODES	
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	GXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

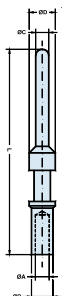
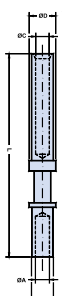
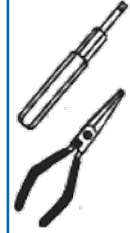
The Glenair IPT SE miniature bayonet-lock connector series features a 3 point bayonet coupling mating interface with stainless steel coupling pins for advanced durability. Resilient inserts provide outstanding dielectric performance and environmental protection. Individual wire sealing grommets elevate the environmental protection rating to IP67. Conductive metal shells and plating provide a reliable ground plane for EMI applications when connectors are combined with appropriate shield termination backshells. Ground springs are also available in plug versions to further enhance EMC. Shells are keyed with five total alternate key positions. Inserts may also be clocked for additional polarization protection. The connectors are temperature rated from -55°C to +125°C (see page A-3 for current ratings versus temperature). High performance crimp contacts facilitate rapid assembly and repair.

Glenair IPT SE Series Bayonet-Lock High Performance Crimp Contact Assembly Tools



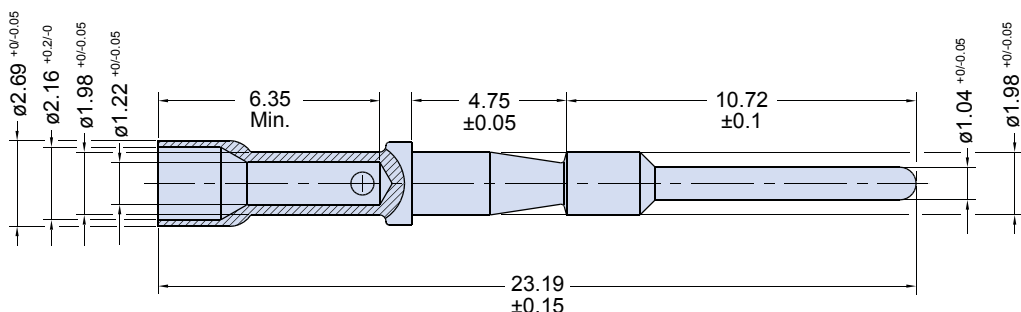
IPT SE Series
Bayonet Lock
Connectors

VG95328 Crimp Connector Assembly Tools

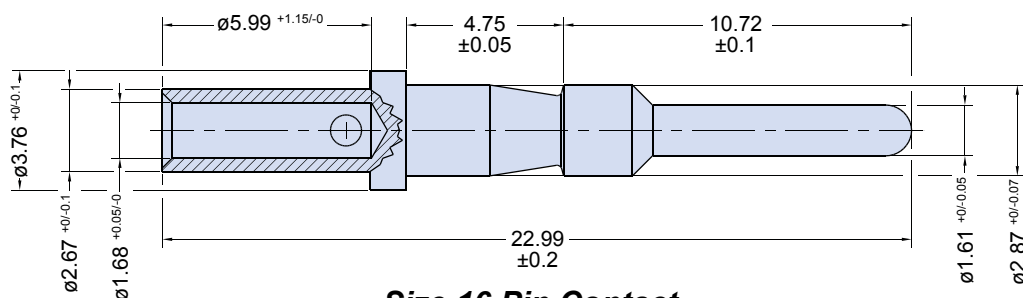
		Contact Size	Wires Cross Section						
			mm ²	AWG	Manual Crimping Tool	Pneumatic Crimping Tool	Turret	Insertion Tool	Removal Tool
10-314980-20P		20		20	M.105001 [AF8]	M.105003 [WA27F]	M.105011 [TH1A]	M.117349 [DAK20]	M.118290 [DRK20]
	10-314980-20S								
10-314980-16P				16	M.105001 [AF8]	M.105003 [WA27F]	M.105011 [TH1A]	M.117350 [DAK16]	M.118291 [DRK16]
	10-314980-16S								

DMC Part Numbers indicated in [parentheses]

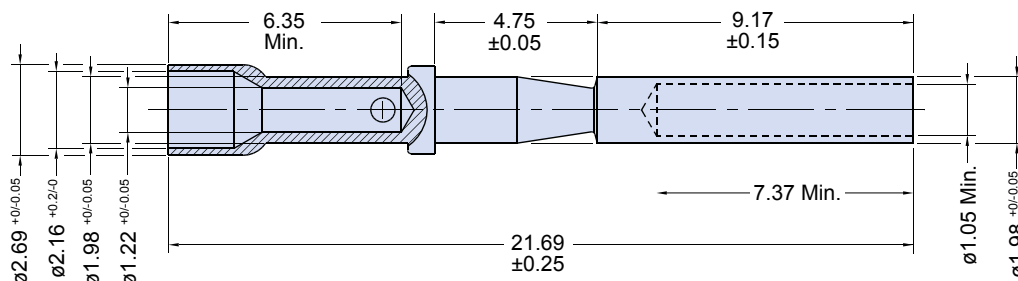
Crimp Contact Dimensions Pin and Socket



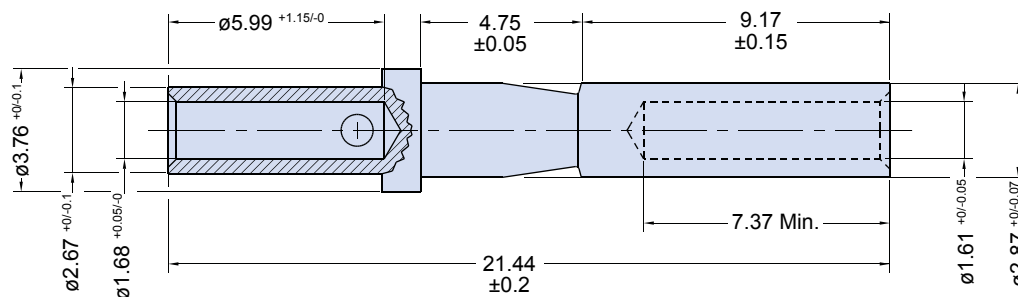
**Size 20 Pin Contact
10-314980-20P**



**Size 16 Pin Contact
10-314980-16P**



**Size 20 Socket Contact
10-314980-20S**



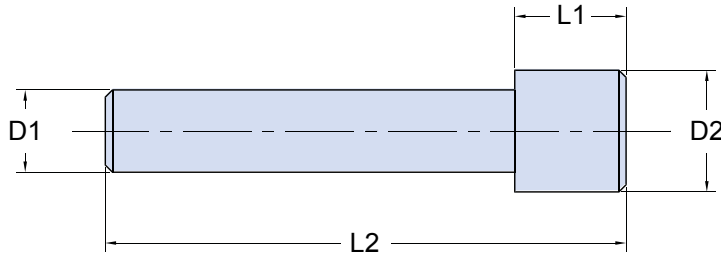
**Size 16 Socket Contact
10-314980-16S**

Glenair IPT SE Series Insert Arrangement Tables and Sealing Plugs



IPT SE Series
Bayonet Lock
Connectors

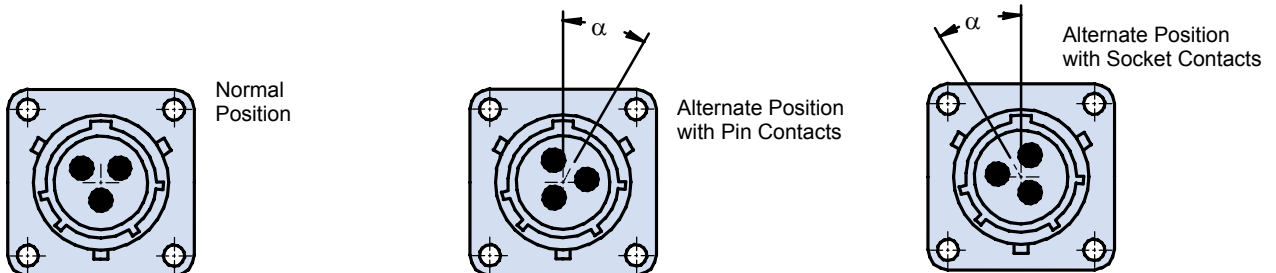
Sealing Plugs for Socket Cavity



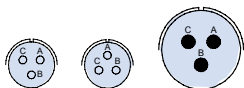
SEALING PLUG DIMENSIONS					
Part Number	D1 ±0.1	D2 ±0.2	L1 ±0.1	L2 ±0.3	Color
DIN 65194-20	1.62	2.3	3.5	14.5	Red
DIN 65194-16	2.30	3.4	3.1	14.5	Blue

Arrangement	Cl. Isol. Rating	Dim. contact size	
		20	16
8 - 3A	I	3	
8-33	I	3	
10 - 6	I	6	
12 - 3	II		3
12 - 10	I	10	
14 - 5	II		5
14 - 12	I	8	4
14 - 15	I	14	1
14 - 19	I	19	
16 - 8	II		8
16 - 23	I	22	1
16 - 26	I	26	
18 - 11	II		11
18 - 32	I	32	
20 - 16	II		16
20 - 41	I	41	
22 - 21	II		21
22 - 55	I	55	
24 - 61	I	61	

Arrangement	Degrees			
	W	X	Y	Z
8 - 3A	60	(120)		
8-33	90			
10 - 6	90			
12 - 3			180	
12 - 10	60	155	270	295
14 - 5	40	92	184	273
14 - 12	43	90		
14 - 15	17	110	155	234
14 - 19	30	165	315	
16 - 8	54	152	180	331
16 - 23	158	270		
16 - 26	60		275	338
18 - 11	62	119	241	340
18 - 32	85	138	222	265
20 - 16	238	318	333	347
20 - 41	45	126	225	
22 - 21	16	135	175	349
22 - 55	30	142	226	314
24 - 61	90	180	270	324

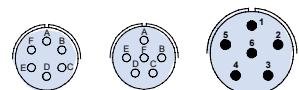


3 Contacts



Arrangement:	8-3A	8-33	12-3
Contact Size:	20	20	16
Service Rating:	I	I	II

6 Contacts



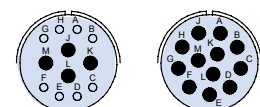
Arrangement:	10-6	10-98*	12-A6*
Contact Size:	20	20	16
Service Rating:	I	II	I

10 Contacts



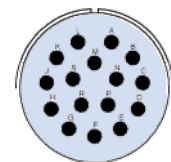
Arrangement:	12-10
Contact Size:	20
Service Rating:	I

12 Contacts



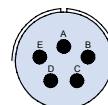
Arrangement:	14-12	14-12/3*
Contact Size:	8-20, 4-16	16
Service Rating:	I	I

16 Contacts



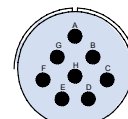
Arrangement:	20-16
Contact Size:	16
Service Rating:	II

5 Contacts



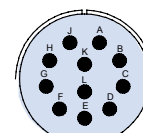
Arrangement:	14-5
Contact Size:	16
Service Rating:	II

8 Contacts



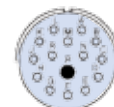
Arrangement:	16-8
Contact Size:	16
Service Rating:	II

11 Contacts



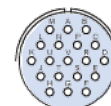
Arrangement:	18-11
Contact Size:	16
Service Rating:	II

15 Contacts



Arrangement:	14-15
Contact Size:	14-20, 1-16
Service Rating:	I

19 Contacts



Arrangement:	14-19
Contact Size:	20
Service Rating:	I

Contact
Legend



20



16

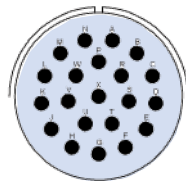
* Consult
Factory

Glenair IPT SE Series Available Insert Arrangements



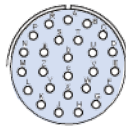
IPT SE Series
Bayonet Lock
Connectors

21 Contacts



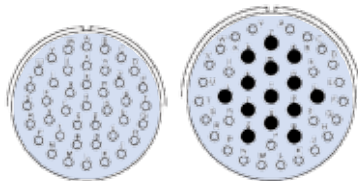
Arrangement:	22-21*
Contact Size:	16
Service Rating:	II

26 Contacts



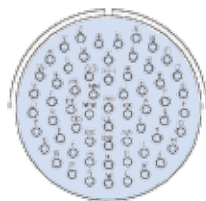
Arrangement:	16-26
Contact Size:	20
Service Rating:	I

41 Contacts



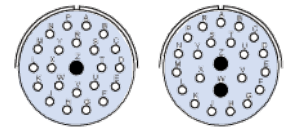
Arrangement:	20-41	22-41*
Contact Size:	20	27-20, 14-16
Service Rating:	I	I

61 Contacts



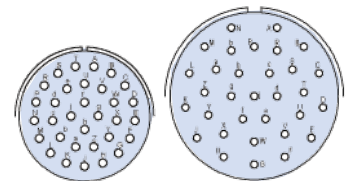
Arrangement:	24-61
Contact Size:	20
Service Rating:	I

23 Contacts



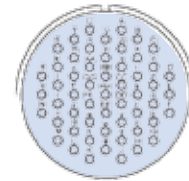
Arrangement:	16-23	16-99*
Contact Size:	22-20, 1-16	21-20, 2-16
Service Rating:	I	I

32 Contacts



Arrangement:	18-32	22-32*
Contact Size:	20	20
Service Rating:	I	I

55 Contacts



Arrangement:	22-55
Contact Size:	20
Service Rating:	I

Contact
Legend



20

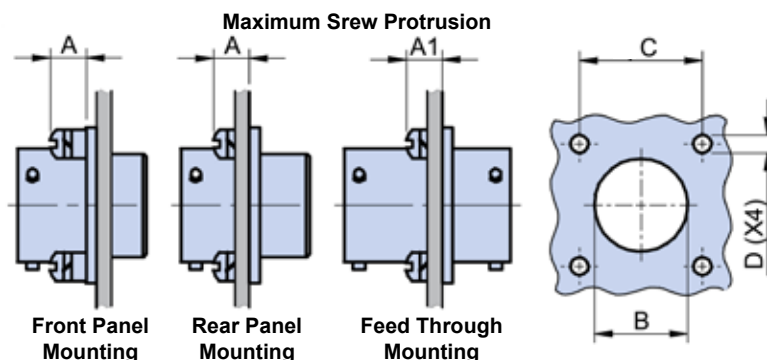


16

* Consult
Factory

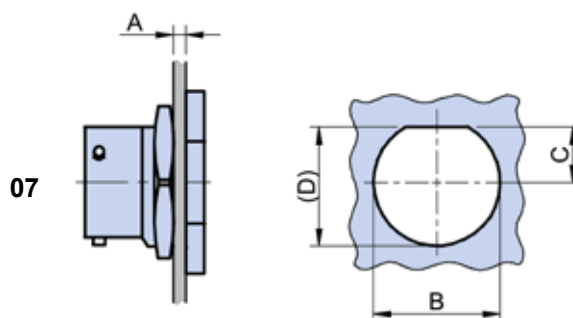
Glenair IPT SE Series Bayonet-Lock High Performance Crimp (MIL-C-26482 Type) Fastener Height Requirements and Panel Cutout Dimensions

For front panel mount square flange connectors (00) the "A" dimension indicates the measured maximums that mounting hardware can stand proud from the connector flange before it will interfere with connector mating. For rear box mount square flange connectors (02) the same "A" column maximum dimensions apply, but in this case the measurement taken includes the thickness of the panel wall or box (so the mounting hardware needs to be correspondingly shorter). Column "A1" defines the maximums for the 02PP bulkhead feedthrough product before mounting hardware interferes with mating.



Panel thickness and panel cutout for type 00, 02, 02PP connectors

Shell Size	A max	A1 max	B +0.2 / -0		C ±0.1	D ±0.12
			Front Panel	Rear Panel		
8	2.2	5.54	12.7	14.0	15.10	3.04
10	2.2	5.54	16.0	17.0	18.25	3.04
12	2.2	5.54	19.0	22.0	20.60	3.04
14	2.2	5.54	22.2	25.0	23.00	3.04
16	2.2	5.54	25.5	28.0	24.60	3.04
18	2.2	5.54	28.5	31.0	27.00	3.04
20	5.4	8.74	31.7	34.5	29.35	3.04
22	5.4	8.74	35.0	37.5	31.75	3.04
24	5.4	7.9	38.0	41.0	34.90	3.73

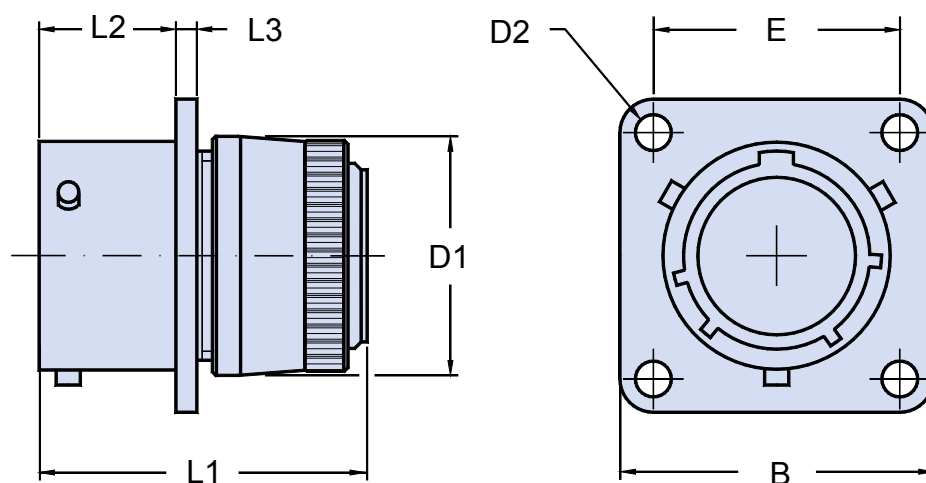
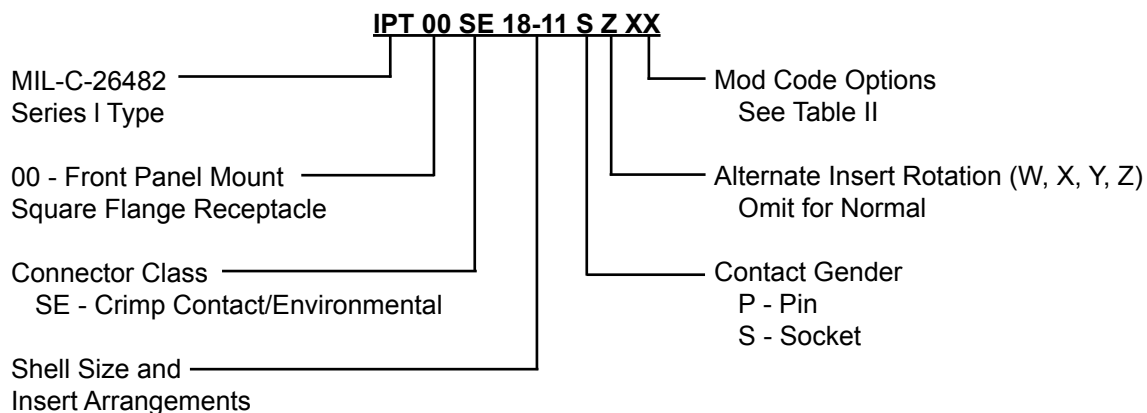


Panel thickness and panel cutout for type 07 connectors

Shell Size	A min - max	B +0.2 / -0	C +0 / -0.25	D
8	1.6 - 3.2	14.5	6.35	13.6
10	1.6 - 3.2	17.7	7.95	16.8
12	1.6 - 3.2	22.7	9.55	20.9
14	1.6 - 3.2	25.7	11.25	24.1
16	1.6 - 3.2	28.8	12.80	27.2
18	1.6 - 3.2	32.0	14.40	30.4
20	1.6 - 6.3	35.1	16.10	33.6
22	1.6 - 3.2	38.4	17.6	36.8
24	1.6 - 3.2	41.5	19.25	40.0

IPT 00 SE

Front Panel Mount Square Flange Receptacle with General Duty Backshell



APPLICATION NOTES

1. Front panel mount square flange receptacle includes sealing grommet and backshell for use with individual wires. Also includes general duty backshell for the attachment of various backend connector accessories; through mounting holes.
2. Connector Class "SE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 00 SE

Front Panel Mount Square Flange Receptacle with General Duty Backshell

TABLE I: DIMENSIONS

Shell Size	B Max.	D1 Max	D2 Min.	E ±0.15	L1 Max.	L2 + 0.8 - 0	L3 Max.	Max- Weight in Grams
8	21.03	15.44	2.9	15.08	40	10.94	2.0	10
10	24.23	18.64	2.9	18.26	40	10.94	2.0	14
12	26.59	21.79	2.9	20.62	40	10.94	2.0	22
14	28.98	25.00	2.9	23.01	40	10.94	2.0	29
16	31.34	28.19	2.9	24.61	40	10.94	2.0	37
18	33.73	31.34	2.9	26.97	40	10.94	2.0	45
20	36.90	34.54	2.9	29.36	44	14.12	2.8	50
22	40.08	37.69	2.9	31.75	44	14.12	2.8	55
24	43.25	40.89	3.6	34.92	44	14.86	2.8	65

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

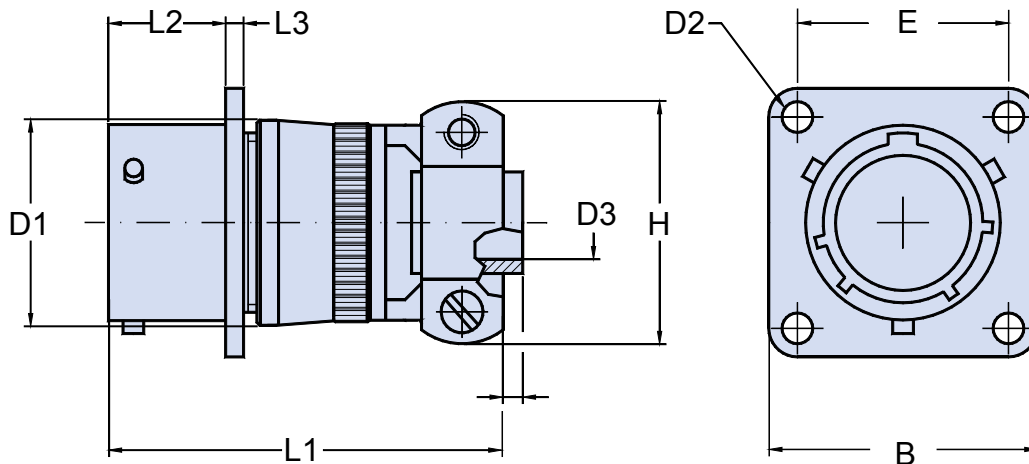
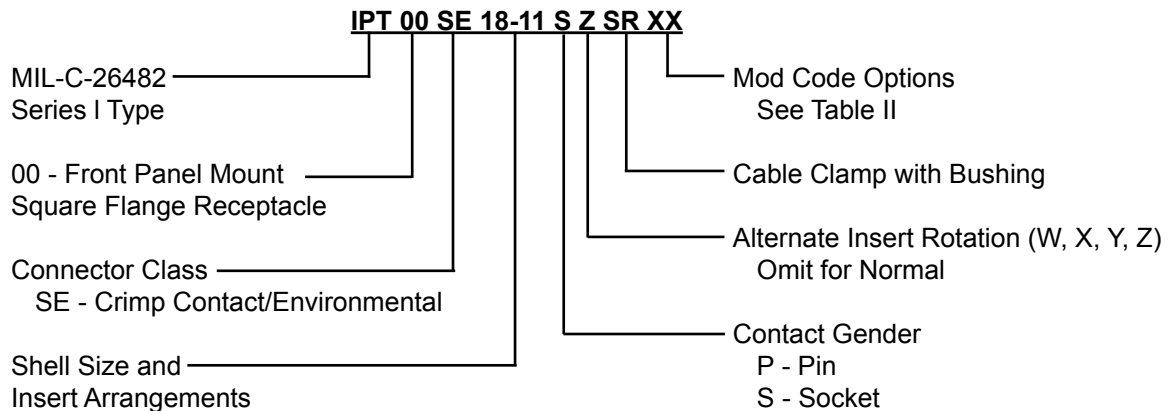
Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 SE...SR

Front Panel Mount Square Flange Receptacle with Backshell, Cable Clamp and Bushing



IPT SE Series
Bayonet Lock
Connectors



APPLICATION NOTES

1. Front panel mount square flange receptacle with cable clamp and bushing for cable protection; through mounting holes.
2. Connector Class "SE" (crimp contact/environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 00 SE...SR

Front Panel Mount Square Flange Receptacle with Backshell, Cable Clamp and Bushing

TABLE I: DIMENSIONS

Shell size	B Max.	D1 Max.	D2 Min.	D3 + 0.3 - 0.7	E ±0.15	H Max.	L1 Max.	L2 + 0.8 - 0	L3 Max.	Max. Weight in Grams
8	21.03	15.44	2.9	3.2	15.08	21.1	61.5	10.94	2.0	20
10	24.23	18.64	2.9	4.8	18.26	22.7	61.5	10.94	2.0	22
12	26.59	27.79	2.9	7.9	20.62	25.9	61.5	10.94	2.0	29
14	28.98	25.00	2.9	9.5	23.01	29.0	61.5	10.94	2.0	40
16	31.34	28.19	2.9	12.7	24.61	30.6	64.4	10.94	2.0	51
18	33.73	31.34	2.9	15.9	26.97	37.4	64.4	10.94	2.0	62
20	36.90	34.54	2.9	15.9	29.36	37.4	71.1	14.12	2.8	70
22	40.08	37.69	2.9	19.1	31.75	42.1	71.1	14.12	2.8	75
24	43.25	40.89	3.6	20.3	34.92	44.5	73.6	14.96	2.8	87

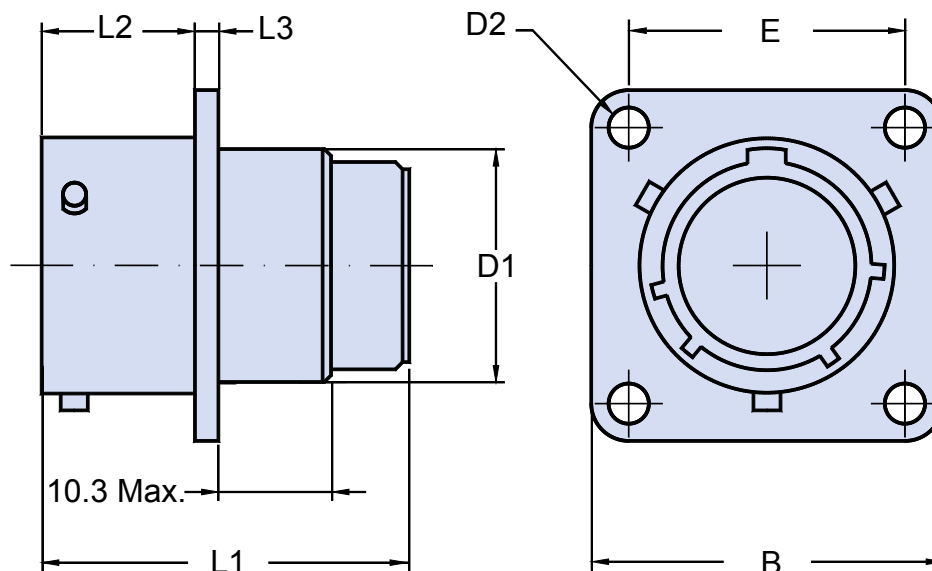
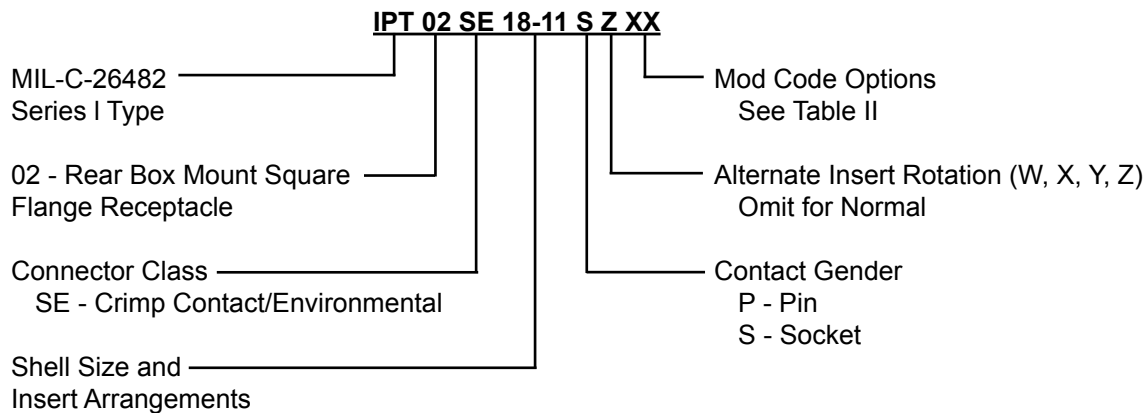
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 02 SE Rear Box Mount Square Flange Receptacle



APPLICATION NOTES

1. Box mount receptacle with through mounting holes; no rear accessory threads.
2. Connector Class "SE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.



IPT 02 SE

Rear Box Mount Square Flange Receptacle

TABLE I: DIMENSIONS

Shell size	B Max.	D1 + 0.8 - 0.6	D2 Min.	E ± 0.15	L1 Max.	L2 + 0.8 - 0	L3 Max.	Maximum Weight in Grams
8	21.03	11.2	2.9	15.08	33.5	10.94	2.0	6
10	24.23	14.3	2.9	18.26	33.5	10.94	2.0	7
12	26.59	17.5	2.9	20.62	33.5	10.94	2.0	10
14	28.98	20.7	2.9	23.01	33.5	10.94	2.0	12
16	31.34	23.9	2.9	24.61	33.5	10.94	2.0	14
18	33.73	27.0	2.9	26.97	33.5	10.94	2.0	17
20	36.90	30.2	2.9	29.36	34.7	14.12	2.8	21
22	40.08	33.4	2.9	31.75	36.0	14.12	2.8	25
24	43.25	36.6	3.6	34.92	36.0	14.96	2.8	27

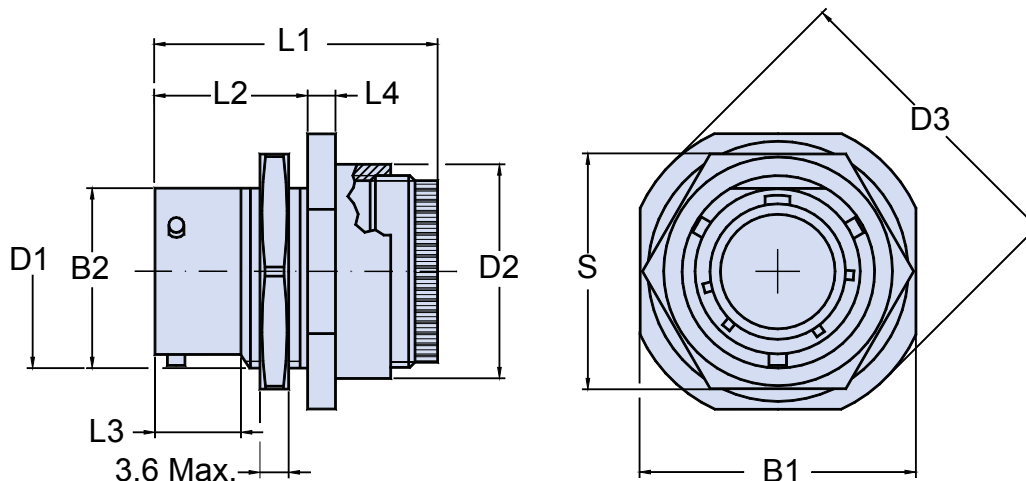
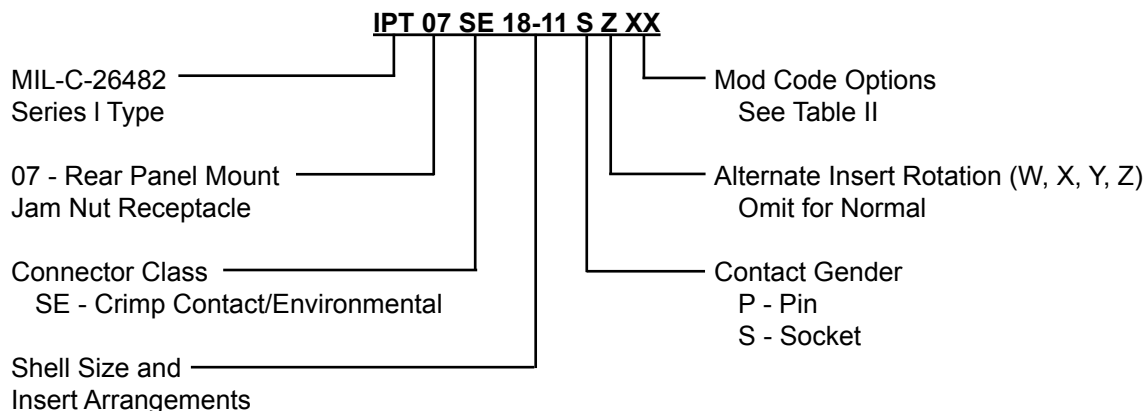
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHS)	Key Polarization (Omit for N version) B, C, E, F = Alternates
F6 - Black Electrodeposited Paint (RoHS)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHS)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 07 SE **Rear Panel Mount Jam Nut** **Receptacle Connector with Backshell**



APPLICATION NOTES

1. Rear panel mount jam nut receptacle connector with simple backshell for open wire bundles.
2. Connector Class "SE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 07 SE

Rear Panel Mount Jam Nut Receptacle Connector with Backshell

TABLE I: DIMENSIONS

Shell size	B1 Max.	B2 + 0 - 0.25	D1	D2 Min.	D3 + 0 - 0.8	L1 Max.	L2 + 0.8 - 0	L3 Min.	L4 ± 0.5	S ± 0.43	Maximum Weight in Grams
8	24.3	13.46	0.5625 - 24 UNEF	19.0	27.3	39.3	17.5	9.75	3.0	19.05	20
10	27.4	16.64	0.6875 - 24 UNEF	22.2	30.5	39.3	17.5	9.75	3.0	22.23	21
12	32.2	20.78	0.8750 - 20 UNEF	25.4	35.3	39.3	17.5	9.75	3.0	26.97	30
14	35.4	23.93	1.0000 - 20 UNEF	28.5	38.5	39.3	17.5	9.75	3.0	30.18	39
16	38.6	27.08	1.1250 - 18 UNEF	31.7	41.6	39.3	17.5	9.75	3.0	33.32	49
18	41.7	30.25	1.2500 - 18 UNEF	34.9	44.8	39.3	17.5	9.75	3.0	36.53	57
20	46.5	33.43	1.3750 - 18 UNEF	38.8	49.6	43.4	22.3	11.32	3.8	39.67	78
22	49.7	36.60	1.5000 - 18 UNEF	42.0	52.7	43.4	22.3	11.32	3.8	42.88	97
24	52.8	39.78	1.6250 - 18 UNEF	45.2	55.9	43.4	23.1	12.16	3.8	46.02	115

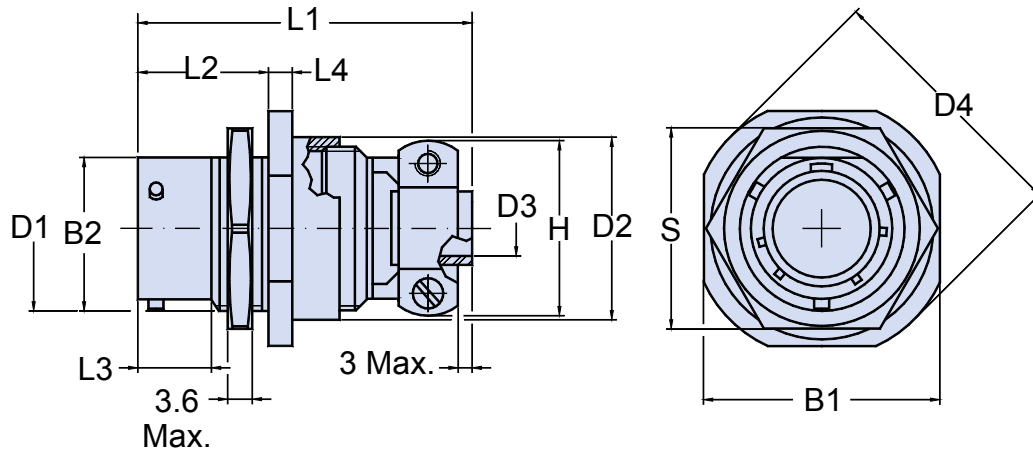
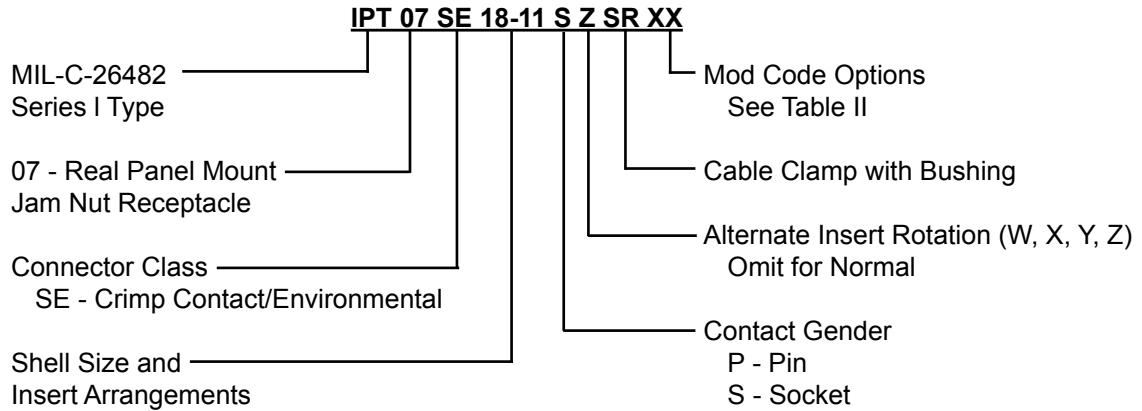
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 07 SE...SR
Rear Panel Mount Jam Nut
Receptacle Connector and Backshell
with Cable Clamp and Bushing



APPLICATION NOTES

1. Rear panel mount jam nut receptacle connector and backshell with cable clamp and bushing.
2. Connector/Backshell Class "SE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 07 SE...SR

Rear Panel Mount Jam Nut Receptacle Connector and Backshell with Cable Clamp and Bushing

TABLE I: DIMENSIONS

Shell size	B1 Max.	B2 +0 -0.25	D1	D2 Min.	D3 + 0.3 - 0.7	D4 + 0 - 0.8	L1 Max.	L2 + 0.8 - 0	L3 Min.	L4 ± 0.15	S ± 0.43	Maximum Weight in Grams
8	24.3	13.46	0.5625 - 24 UNEF	19.0	3.2	27.3	61.5	17.5	9.75	3.0	19.05	25
10	27.4	16.64	0.6875 - 24 UNEF	22.2	4.8	30.5	61.5	17.5	9.75	3.0	22.23	25
12	32.2	20.78	0.8750 - 20 UNEF	25.4	7.9	35.3	61.5	17.5	9.75	3.0	26.97	37
14	35.4	23.93	1.0000 - 20 UNEF	28.5	9.5	38.5	61.5	17.5	9.75	3.0	30.18	50
16	38.6	27.08	1.1250 - 18 UNEF	31.7	12.7	41.6	64.4	17.5	9.75	3.0	33.32	63
18	41.7	30.25	1.2500 - 18 UNEF	34.9	15.9	44.8	64.4	17.5	9.75	3.0	36.53	74
20	46.5	33.43	1.3750 - 18 UNEF	38.8	15.9	49.6	71.1	22.3	11.32	3.8	39.67	97
22	49.7	36.60	1.5000 - 18 UNEF	42.0	19.1	52.7	71.1	22.3	11.32	3.8	42.88	117
24	52.8	39.78	1.6250 - 18 UNEF	45.2	20.3	55.9	73.6	23.1	12.16	3.8	46.02	137

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

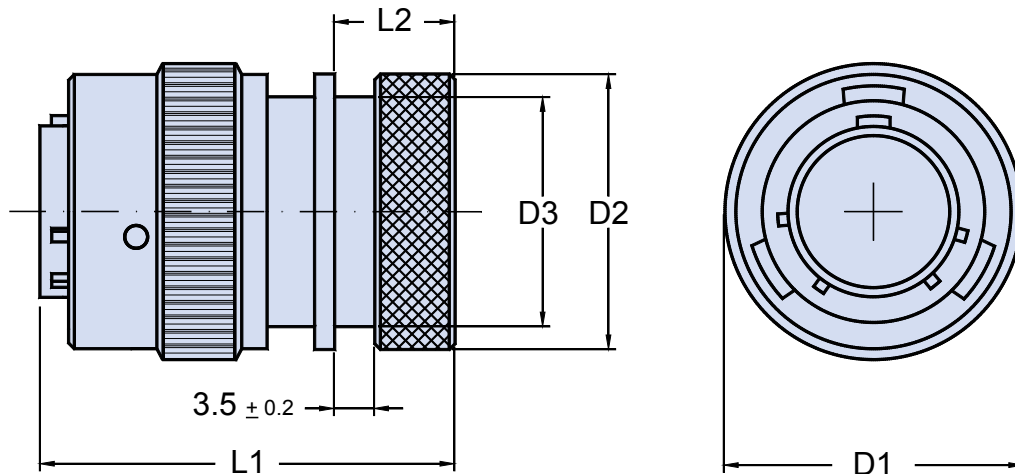
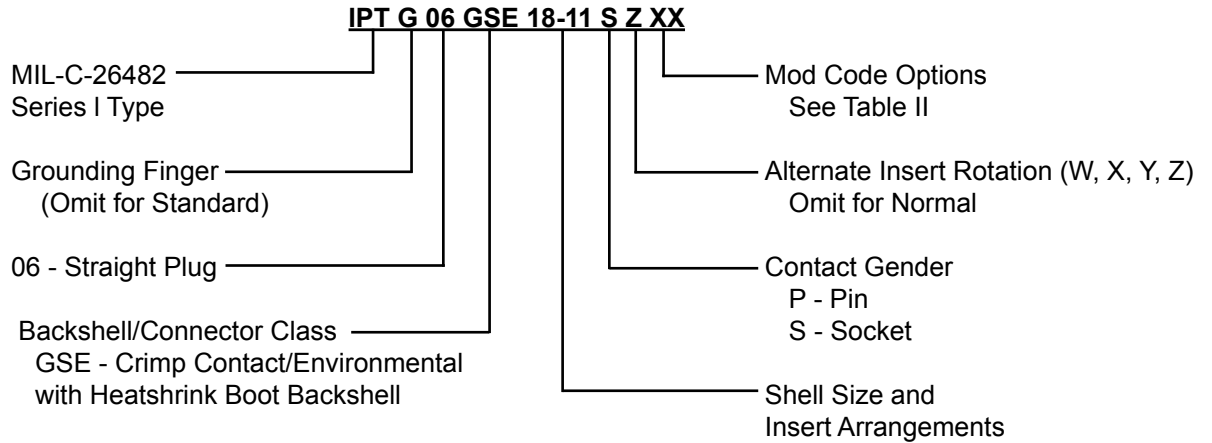
STANDARD FINISHES (For QQ-A-591 Aluminum Shells)

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 SE Straight Plug Connector



IPT SE Series
Bayonet Lock
Connectors



APPLICATION NOTES

1. Straight plug Connector.
2. Connector Class "GSE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 06 SE Straight Plug Connector

TABLE I: DIMENSIONS

Shell size	D1 Max.	D2 + 0 - 0.5	D3 + 0 - 0.5	L1 Max.	L2 ± 0.5	Maximum Weight in Grams
8	19.8	15.6	13.3	39	12.2	14
10	23.5	18.4	16.1	39	12.2	16
12	26.5	23.7	21.4	39	12.2	23
14	30.0	24.5	22.2	39	12.2	30
16	33.1	29.8	26.2	39	14.5	43
18	35.3	32.0	28.5	39	14.5	46
20	38.8	36.1	32.5	44	15.8	63
22	42.0	38.5	34.8	44	15.8	78
24	45.1	41.6	37.9	44	14.9	84

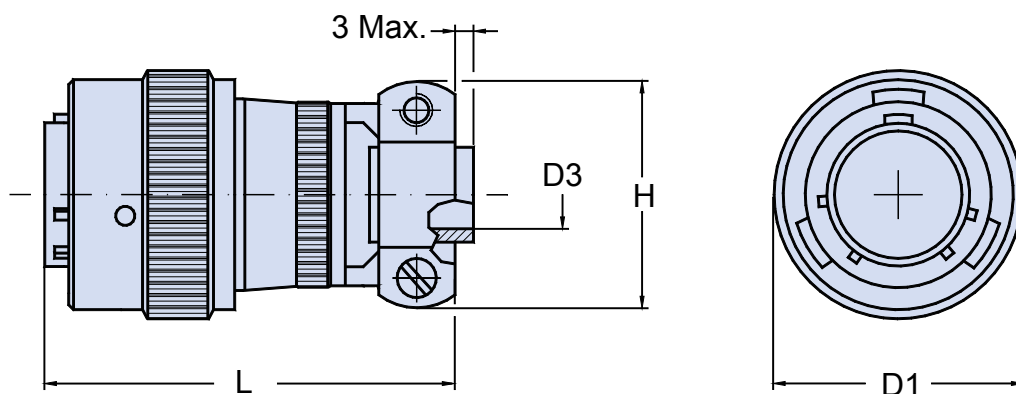
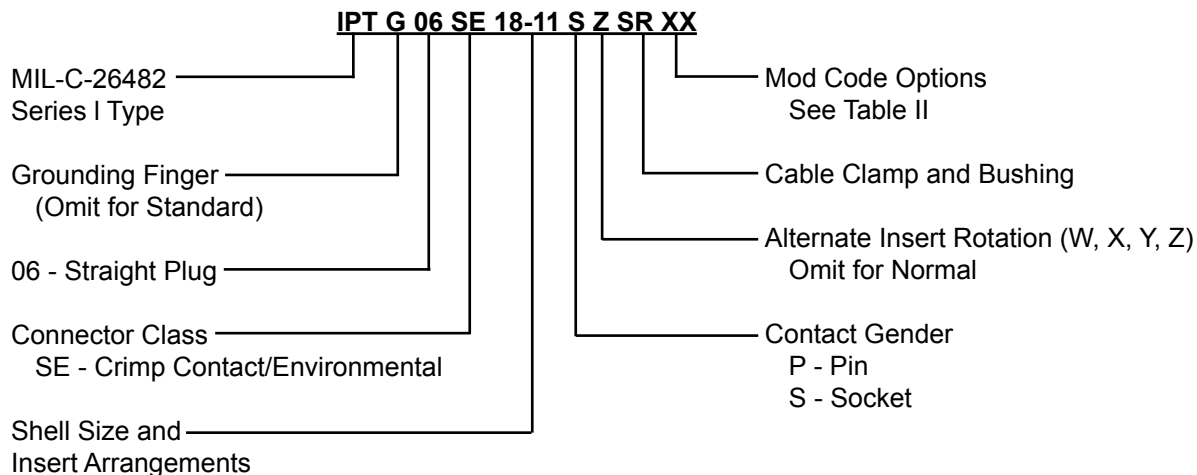
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 SE...SR
Straight Plug Connector
 with Backshell, Cable Clamp and Bushing



APPLICATION NOTES

1. Straight plug with cable clamp and bushing for cable protection.
2. Connector Class "SE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 06 SE...SR

Straight Plug Connector

with Backshell, Cable Clamp and Bushing

TABLE I: DIMENSIONS

Shell size	D1 Max.	D3 + 0.3 - 0.7	H Max.	L Max.	Maximum Weight in Grams
8	19.8	3.2	21.1	61.3	22
10	23.5	4.8	22.7	61.3	24
12	26.5	7.9	25.9	61.3	30
14	30.0	9.5	29.0	61.3	40
16	33.1	12.7	30.6	64.3	47
18	35.3	15.9	37.4	64.3	62
20	38.8	15.9	37.4	70.0	79
22	42.0	19.1	42.1	70.0	97
24	45.1	20.3	44.5	71.9	104

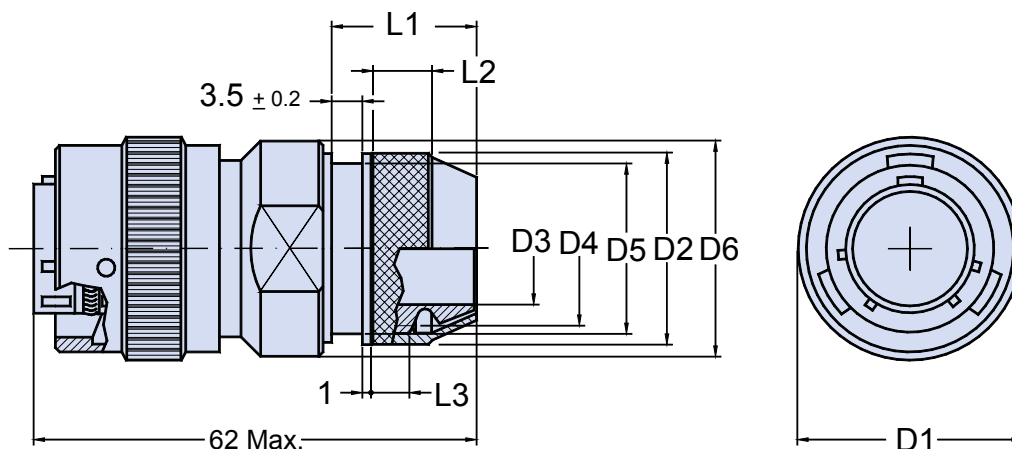
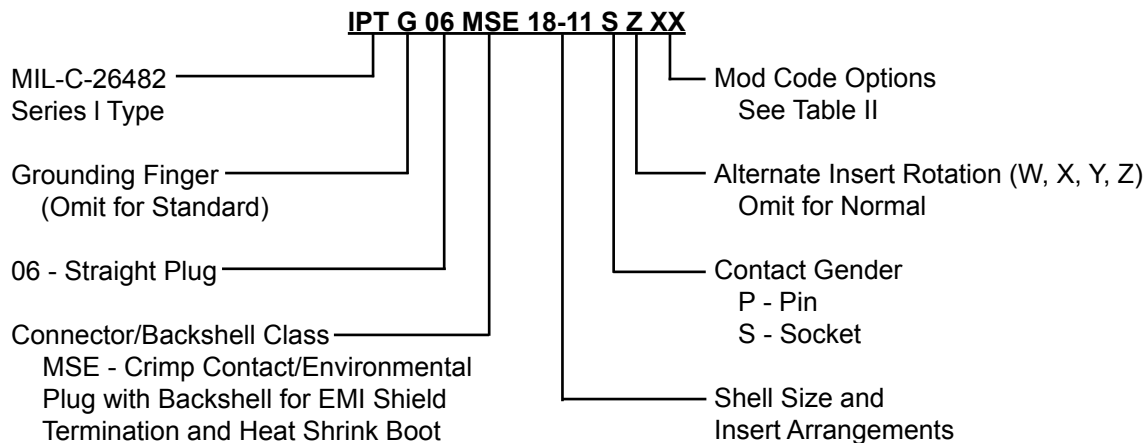
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 MSE
Straight Plug Connector
 with Backshell Suitable for
 EMI Shield Termination and Heat Shrink Boot



APPLICATION NOTES

1. Straight plug with backshell for heat shrink boot, and/or terminating EMI shielded cable.
2. Connector/Backshell Class "MSE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 06 MSE

Straight Plug Connector

with Backshell Suitable for EMI Shield Termination and Heat Shrink Boot

TABLE I: DIMENSIONS

Shell size	D1 Max.	D2 + 0.5 - 0	D3 Min.	D4	D5 + 0 - 1	D6 Max.	L1 + 0 - 2.5	L2 +1.5 - 0	L3 Min.	Maximum Weight in Grams
8	19.8	16	6.6	M14 x 1	14.0	20	17	5	4	27
10	23.5	18	9.2	M16 x 1	16.0	23	17	5	4	29
12	26.5	22	12.2	M20 x 1	20.0	27	17	7	5	35
14	30.0	25	15.2	M23 x 1	23.0	30	18	8	6	45
16	33.1	28	18.3	M26 x 1	26.0	33	18	8	6	52
18	35.3	32	20.0	M30 x 1	28.5	36	18	10	6	67
20	38.8	34	23.0	M32 x 1	30.5	40	18	10	6	84
22	42.0	38	26.0	M36 x 1	34.5	43	18	10	6	102
24	45.1	41	28.8	M39 x 1	37.5	46	18	10	6	109

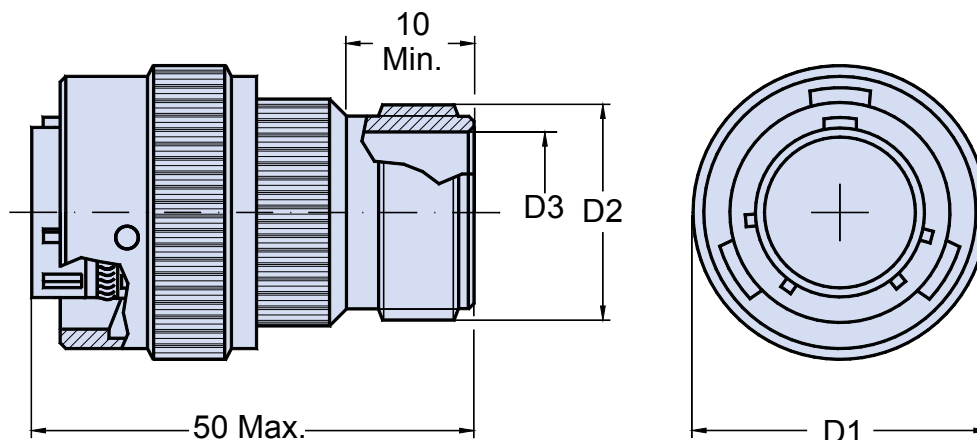
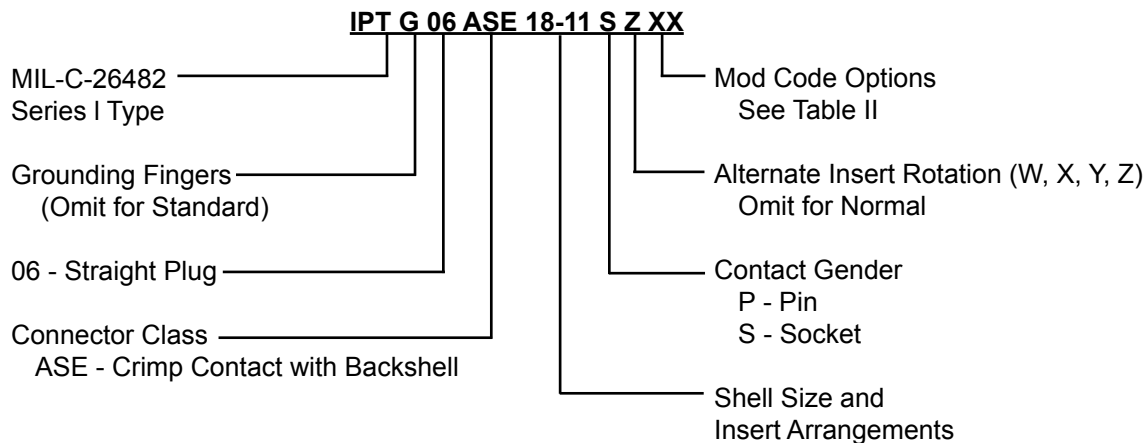
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 ASE
Straight Plug Connector
 with Backshell to Accommodate
 MS3057 Cable Clamp (Not Included)



APPLICATION NOTES

1. Straight plug with backshell for attachment of cable clamp MS3057-A/B/C (not included).
2. Connector Class "ASE": Grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 06 ASE

Straight Plug Connector with Backshell to Accommodate MS3057 Cable Clamp (Not Included)

TABLE I: DIMENSIONS

Shell size	D1 Max.	D2	D3 Min.	Maximum Weight in Grams
8	19.8	0.5000 - 28UNEF	6.6	22
10	23.5	0.6250 - 24UNEF	9.2	22
12	26.5	0.7500 - 20UNEF	12.2	28
14	30.0	0.8750 - 20UNEF	15.2	38
16	33.1	1.0000 - 20UNEF	18.3	45
18	35.3	1.1875 - 18UNEF	20.0	60
20	38.8	1.1875 - 18UNEF	23.0	77
22	42.0	1.4375 - 18UNEF	26.0	95
24	45.1	1.4375 - 18UNEF	28.8	102

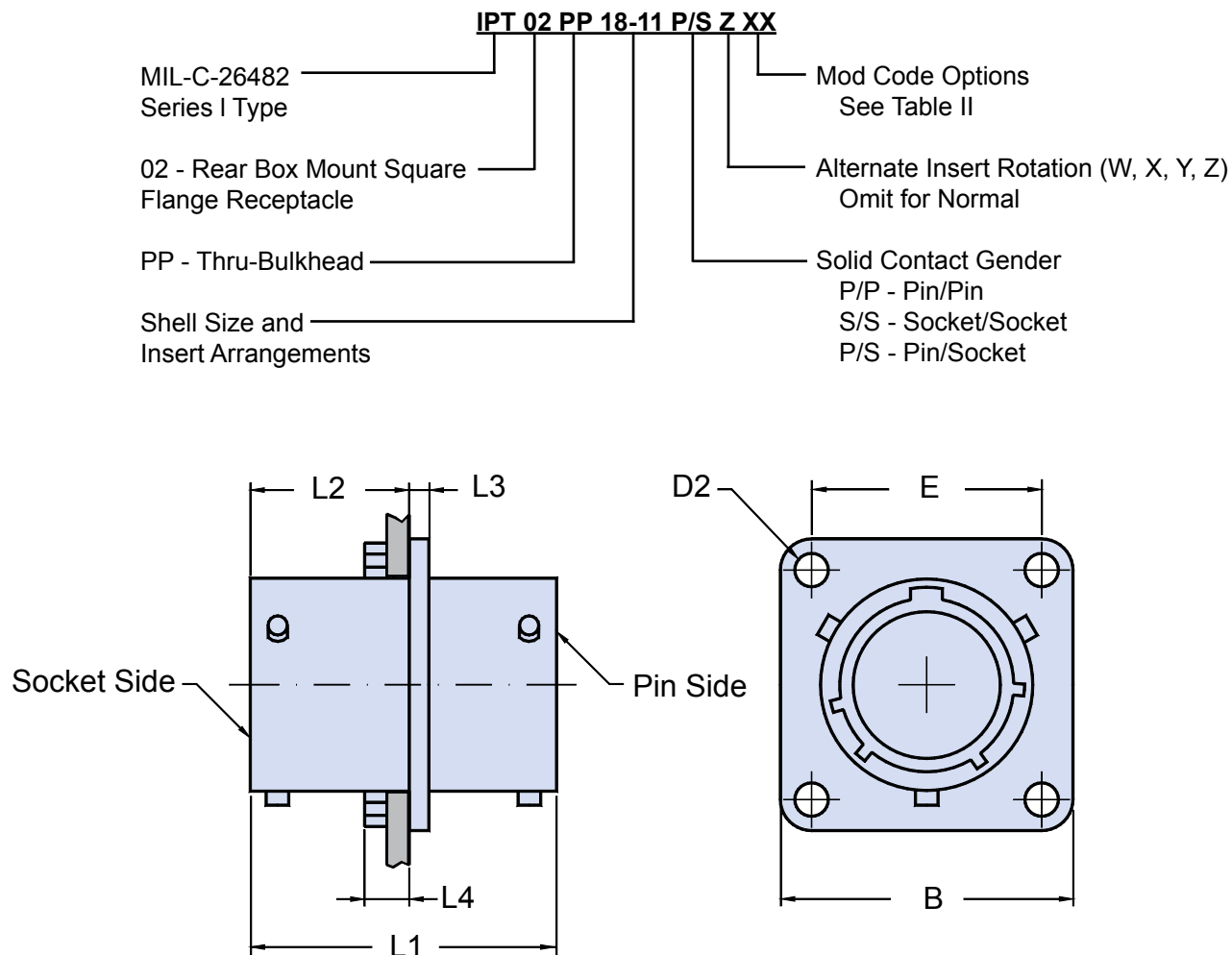
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 02 PP **Rear Box Mount Square Flange Receptacle** **Through Bulkhead**



APPLICATION NOTES

1. Through bulkhead receptacle with solid feedthrough contacts. Rear box mount square flange version.
2. Threaded mount holes.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.



IPT 02 PP

Rear Box Mount Square Flange Receptacle Through Bulkhead

TABLE I: DIMENSIONS

Shell size	B Max.	D2 Min.	E ± 0.15	L1 Max.	L2 + 0.79 - 0	L3 ± 0.4	L4 Max.	Maximum Weight in Grams
8	21.03	2.9	15.08	29	14.27	1.57	5.54	10
10	24.23	2.9	18.26	29	14.27	1.57	5.54	11
12	26.59	2.9	20.62	29	14.27	1.57	5.54	14
14	28.98	2.9	23.01	29	14.27	1.57	5.54	16
16	31.34	2.9	24.61	29	14.27	1.57	5.54	18
18	33.73	2.9	26.97	29	14.27	1.57	5.54	21
20	36.90	2.9	29.36	36	17.47	2.39	8.74	25
22	40.08	2.9	31.75	36	17.47	2.39	8.74	29
24	43.25	3.6	34.92	36	17.47	2.39	7.90	31

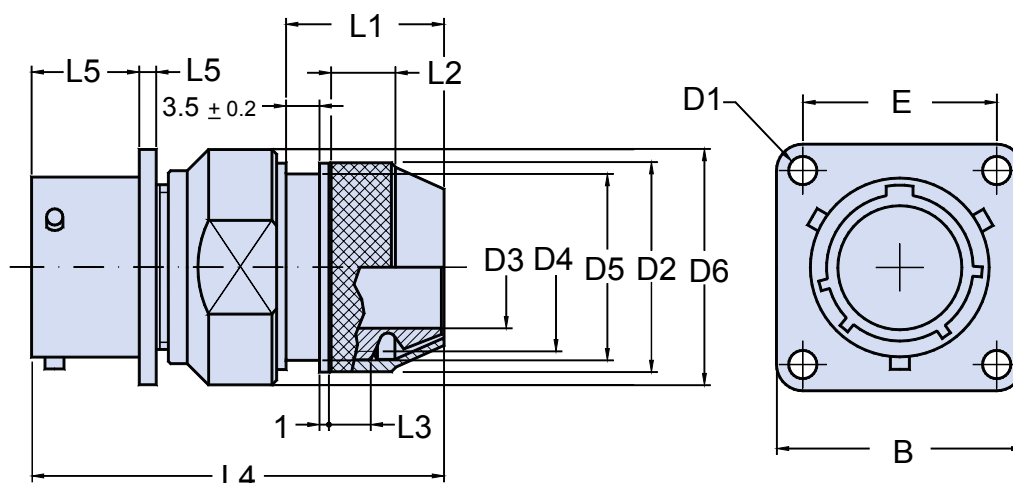
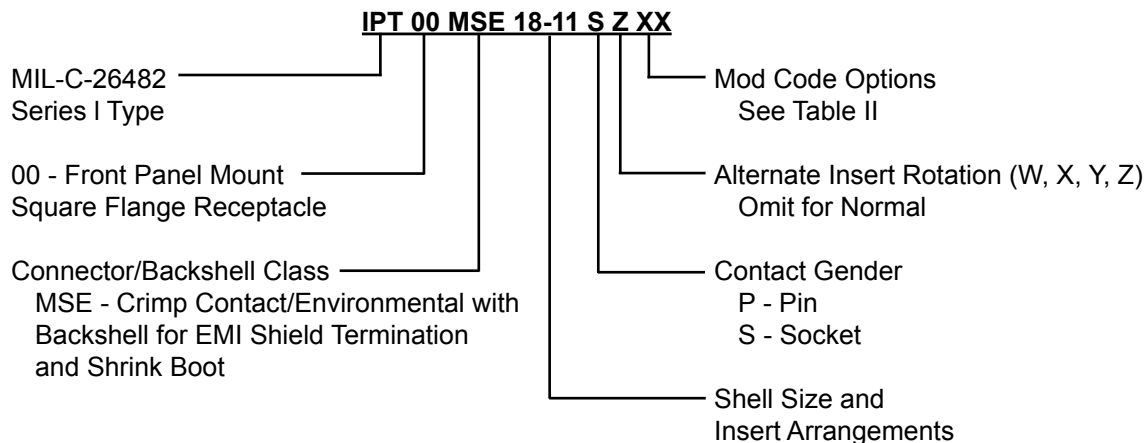
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	NXXX - Custom Designed Connector
F7 - Black Zn-Co Plating (RoHs)	
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 MSE
Front Panel Mount Square Flange Receptacle
with Backshell
for EMI Shield Termination and Shrink Boot



APPLICATION NOTES

1. Front panel wall mount receptacle with backshell for terminating shielded cable, suitable for heat shrink boots; through mounting holes.
2. Connector/Backshell Class "MSE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 00 MSE

Front Panel Mount Square Flange Receptacle with Backshell

for EMI Shield Termination and Shrink Boot

TABLE I: DIMENSIONS

Shell size	B Max.	D1 Min.	E ± 0.15	L4 Max.	L5 + 0.8 - 0	L6 Max.	Maximum Weight in Grams
8	21.03	2.9	15.08	54	10.94	2.0	26
10	24.23	2.9	18.26	54	10.94	2.0	32
12	26.59	2.9	20.62	54	10.94	2.0	38
14	28.98	2.9	23.01	54	10.94	2.0	44
16	31.34	2.9	24.61	54	10.94	2.0	49
18	33.73	2.9	26.97	54	10.94	2.0	60
20	36.90	2.9	29.36	62	14.12	2.8	70
22	40.08	2.9	31.75	62	14.12	2.8	73
24	43.25	3.6	34.92	62	14.96	2.8	87

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHS)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHS)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHS)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

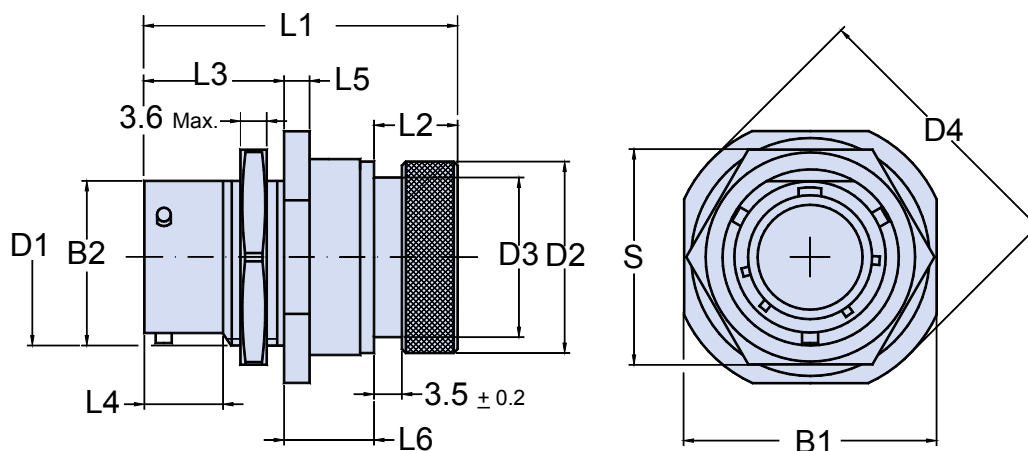
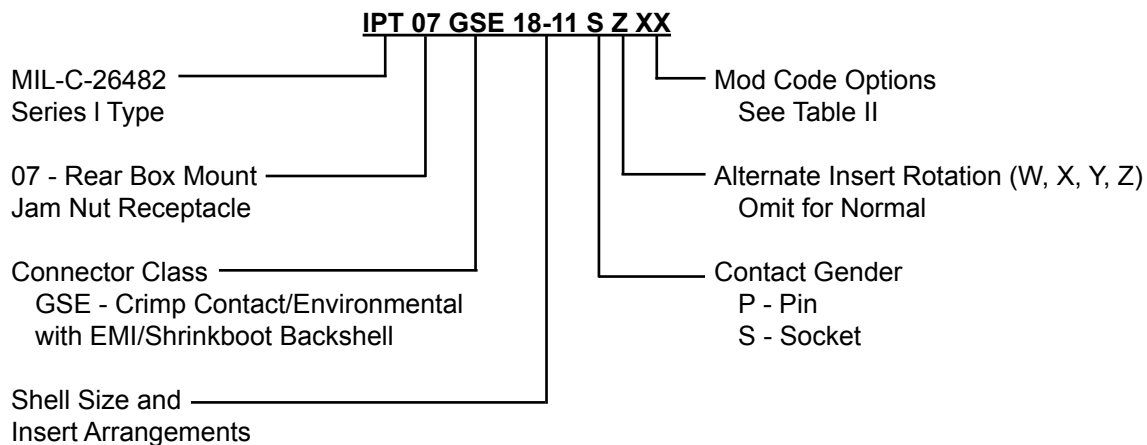
Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 07 GSE

Rear Panel Mount Jam Nut Receptacle Connector with EMI/Shrinkboot Backshell



IPT SE Series
Bayonet Lock
Connectors



APPLICATION NOTES

1. Rear panel mount jam nut receptacle with backshell for termination of EMI shielding and shrinkboot
2. Connector Class "GSE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.



IPT 07 GSE

Rear Panel Mount Jam Nut Receptacle Connector with EMI/Shrinkboot Backshell

TABLE I: DIMENSIONS

Shell size	B1 Max.	B2 + 0 - 0.25	D1	D4 + 0 - 0.8	L1 Max.	L3 + 0.8 - 0	L4 Min.	L5 ± 0.5	L6 ± 0.8	S ± 0.43	Maximum Weight in Grams
8	24.3	13.46	0.5625-24UNEF	27.3	43.0	17.5	9.75	3.0	12.6	19.05	20
10	27.4	16.46	0.6875-24UNEF	30.5	43.0	17.5	9.75	3.0	12.6	22.23	23
12	32.2	20.78	0.8750-20UNEF	35.3	43.0	17.5	9.75	3.0	12.6	26.97	30
14	35.4	23.93	1.0000-20UNEF	38.5	43.0	17.5	9.75	3.0	12.6	30.18	40
16	38.6	27.08	1.1250-18UNEF	41.6	45.5	17.5	9.75	3.0	12.6	33.32	50
18	41.7	30.25	1.2500-18UNEF	44.8	45.5	17.5	9.75	3.0	12.6	36.53	60
20	46.5	33.43	1.3750-18UNEF	49.6	53.5	22.3	11.32	3.8	13.7	39.67	80
22	49.7	36.60	1.5000-18UNEF	52.7	53.5	22.3	11.32	3.8	13.7	42.88	85
24	52.8	39.78	1.6250-18UNEF	55.9	53.5	23.1	12.16	3.8	14.0	46.02	90

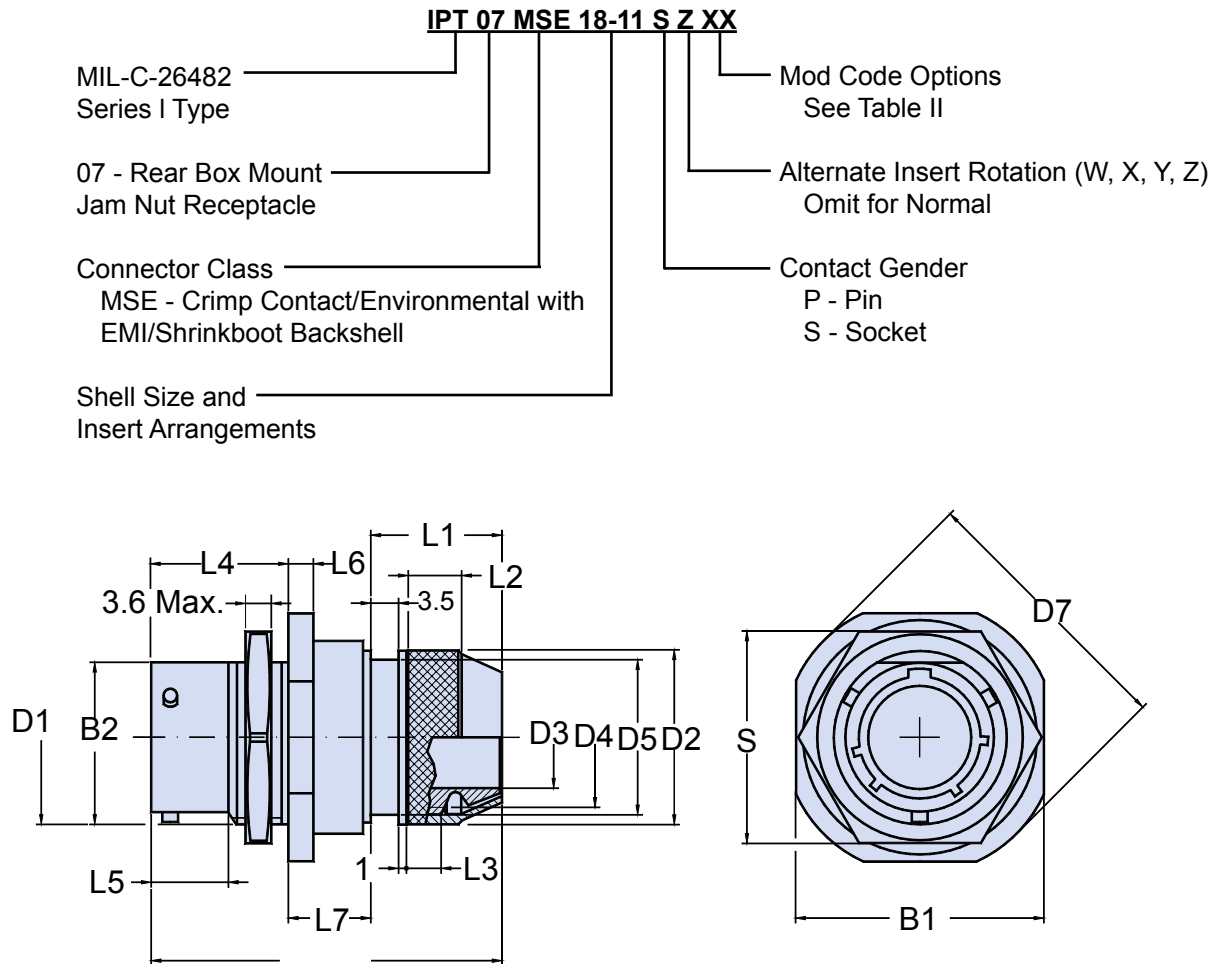
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 07 MSE
Rear Panel Mount Jam Nut Receptacle
 with Backshell
 for EMI Shield Termination and Shrink Boot



APPLICATION NOTES

1. Rear panel mount jam nut receptacle with EMI shield termination/shrinkboot Backshell
2. Connector Class "MSE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.



IPT 07 MSE

Rear Panel Mount Jam Nut Receptacle with Backshell

for EMI Shield Termination and Shrink Boot

TABLE I: DIMENSIONS

Shell size	B1 Max.	B2 + 0 - 0.25	D1	D7 + 0 - 0.8	L4 + 0.8 - 0	L5 Min.	L6 ± 0.5	L7 ± 0.8	S ±0.43	Maximum Weight in Grams
8	24.3	13.46	.5625 - 24 UNEF	27.3	17.5	9.75	3.0	12.6	19.05	30
10	27.4	16.64	.6875 - 24 UNEF	30.5	17.5	9.75	3.0	12.6	22.23	35
12	32.2	20.78	.8750 - 20 UNEF	35.3	17.5	9.75	3.0	12.6	26.97	45
14	35.4	23.93	1.0000 - 20 UNEF	38.5	17.5	9.75	3.0	12.6	30.18	55
16	38.6	27.08	1.1250 - 18 UNEF	41.6	17.5	9.75	3.0	12.6	33.32	65
18	41.7	30.25	1.2500 - 18 UNEF	44.8	17.5	9.75	3.0	12.6	36.53	80
20	46.5	33.43	1.3750 - 18 UNEF	49.6	22.3	11.32	3.8	13.7	39.67	105
22	49.7	36.60	1.5000 - 18 UNEF	52.7	22.3	11.32	3.8	13.7	42.88	115
24	52.8	39.78	1.6250 - 18 UNEF	55.9	23.1	12.16	3.8	14.0	46.02	125

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

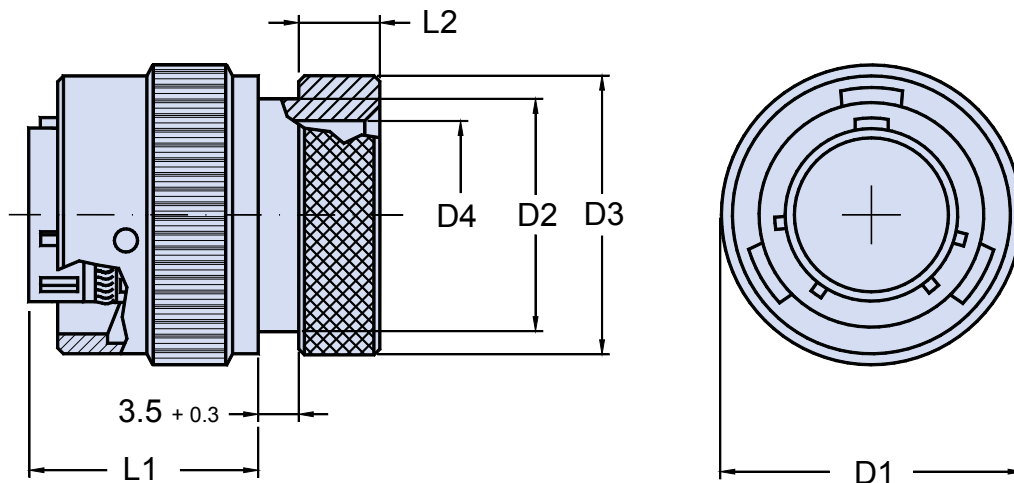
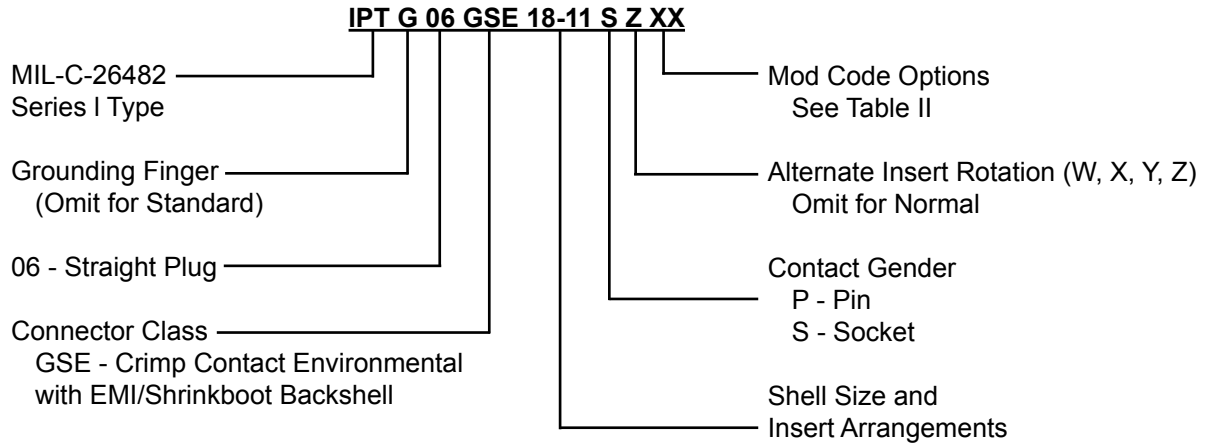
STANDARD FINISHES (For QQ-A-591 Aluminum Shells)

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT G 06 GSE **Straight Plug Connector** **with EMI/Shrinkboot Backshell**



IPT SE Series
 Bayonet Lock
 Connectors



APPLICATION NOTES

1. Straight plug with grommet and EMI shield termination/shrinkboot backshell.
2. Connector Class "GSE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT G 06 GSE

Straight Plug Connector

with EMI/Shrinkboot Backshell

TABLE I: DIMENSIONS

Shell size	D1 Max.	D2 + 0.15 - 0	D3		D4		L1 Max.	L2 Min.	Maximum Weight in Grams
				Limit		Limit			
8	19.8	9.40	13.8	-2.00	7.0	+2.5	23	6.5	14
10	23.5	12.60	16.6	-1.60	10.4	+2.1	23	6.5	16
12	26.5	15.75	19.8	-1.65	13.9	+1.7	23	6.5	23
14	30.0	18.40	23.0	-2.20	16.5	+2.2	23	6.5	30
16	33.1	21.60	26.2	-2.20	19.7	+2.1	23	6.5	43
18	35.3	24.40	29.0	-2.20	22.3	+2.4	23	8.5	46
20	38.8	26.00	32.3	-2.30	25.5	+2.4	28	8.5	63
22	42.0	29.40	36.6	-2.20	28.7	+2.4	28	8.5	78
24	45.1	32.50	39.8	-3.30	31.8	+2.5	28	8.5	84

TABLE II: MODIFICATION CODES

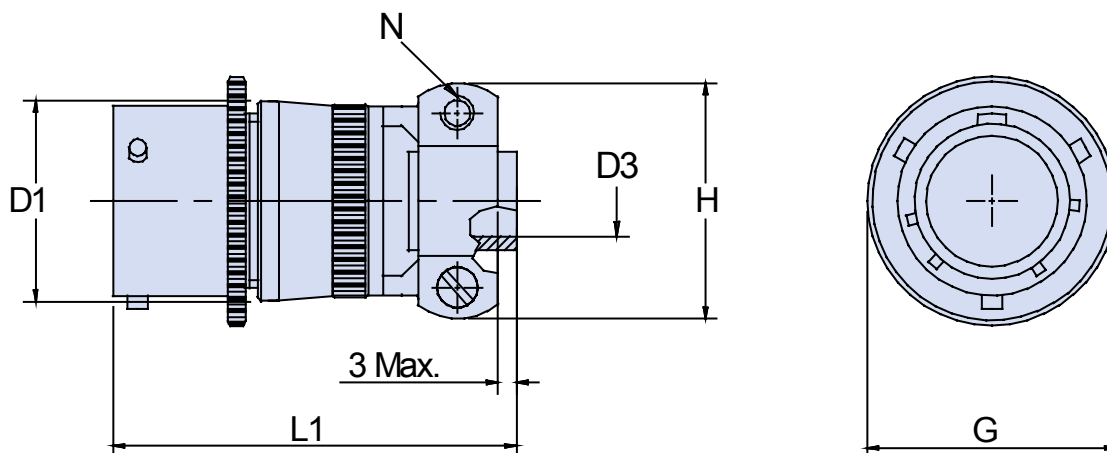
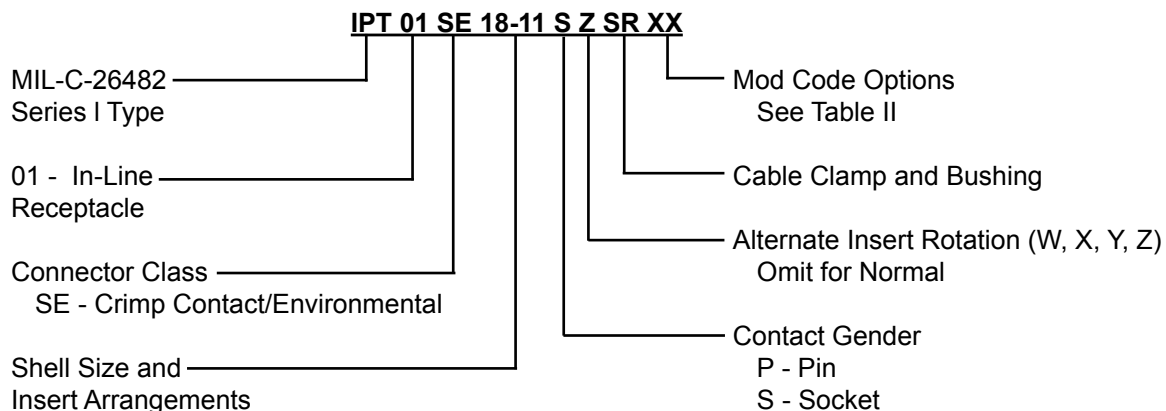
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 SE...SR

In-Line Receptacle Connector with Backshell, Cable Clamp and Bushing



APPLICATION NOTES

1. In-line receptacle with sealing grommet, cable clamp and bushing for cable protection.
2. Connector Class "SE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 01 SE...SR

In-Line Receptacle Connector with Backshell, Cable Clamp and Bushing

TABLE I: DIMENSIONS

Shell size	N Thread	D1 Max.	D3 + 0.3 - 0.7	L1 Max.	G ± 0.1	Maximum Weight in Grams
8	6-32	15.44	3.2	45.1	17.3	20
10	6-32	18.64	4.8	45.1	21.8	22
12	6-32	21.79	7.9	45.1	25.1	29
14	6-32	25.00	9.5	45.1	28.6	40
16	6-32	28.19	12.7	48.4	30.6	51
18	8-32	31.34	15.9	48.4	33.2	62
20	8-32	34.54	15.9	54.8	36.5	70
22	8-32	37.69	19.1	54.8	39.6	75
24	8-32	40.89	20.3	56.4	43.1	87

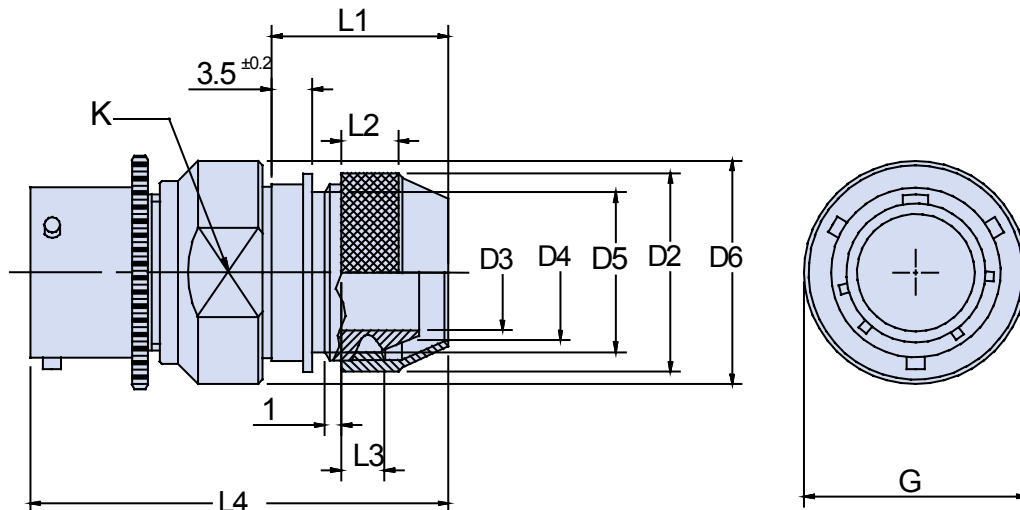
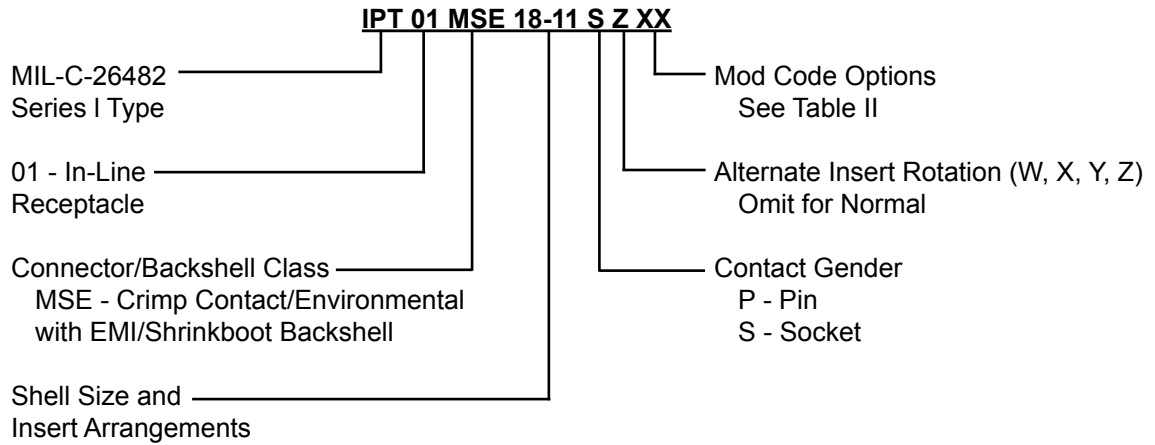
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 MSE
In-Line Receptacle Connector
with Backshell for
EMI Shield Termination and Shrink Boot



APPLICATION NOTES

1. In-line receptacle with backshell for terminating EMI shielding and attaching heat shrink boots.
2. Connector/Backshell Class "MSE" (crimp contact/environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.



IPT 01 MSE

In-Line Receptacle Connector with Backshell for EMI Shield Termination and Shrink Boot

TABLE I: DIMENSIONS

Shell size	K Key	G ± 0.1	L4 Max.	Maximum Weight in Grams
8	18	17.3	54	26
10	21	21.8	54	32
12	24	25.1	54	38
14	28	28.6	54	44
16	31	30.6	54	49
18	34	33.0	54	60
20	37	36.5	62	70
22	41	39.6	62	73
24	44	43.1	62	87

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

To Most People It's Just a Connector



To Glenair It's a Promise

Most customers have a simple expectation when they go shopping for safety-critical interconnect components: They want fast and accurate service. Glenair addresses this most basic customer requirement in several different ways. First and foremost, by providing immediate access to our technical information and product documentation: whether you prefer an office visit, the telephone, the Internet, a CD or a printed catalog, Glenair is ready with answers to your most complex questions and design challenges. Secondly, Glenair stocks thousands of popular catalog products for those situations

when even a two or three week lead-time is just too long. We stock over 40,000 interconnect components—bagged and tagged and ready for immediate shipment. And for those situations when a customized solution is required, our engineers are fully versed in all aspects of interconnect system design: from shielding against EMI, to reducing weight and connector package size, to stopping corrosion and other forms of environmental damage.

You have a simple expectation: fast and accurate service. At Glenair, we're ready to give you exactly that. It's a promise.



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www.glenair.com

An Economical Connector Solution for General Electronics, Industrial Controls, Instrumentation and Military Vehicles

Harsh Application Environments

The Glenair Series IPT Bayonet-Lock Signal Connector is ideally suited for all interconnect applications that require a general-duty connector equipped with solder cup contacts and one-piece rubber insert. The bayonet coupling mechanism provides fast and easy mating, especially when the connector is situated in an awkward or hard to reach location. The connector's high resistance to vibration and shock provides foolproof performance in even the most rigorous application environments. Environmental protection to IP67 levels provides additional reliability and the flexibility to specify these rugged connectors in harsh applications such as machine tools and factory automation. Supplied solder cup contacts are gold-plated over nickel. Optional crimp contacts are available, however the

Glenair IPT SE series, with its industry standard rear-release crimp contacts and retention clip mechanism is better suited for all high-performance applications that require crimp contacts. Sealing members in the IPT series are made from resilient neoprene rubber. The standard insert material is synthetic rubber. There are 44 different size 16 and size 20 insert arrangements and nine shell sizes.

Intermateability

The Series IPT Connector is interchangeable and intermateable with the wide range of industry-standard bayonet connectors designed around MIL-C-26482 Series I and/or qualified to VG 95328, including VEAM VPT, Amphenol PT, Amphenol Limited G2GB, and ITT Cannon KPT.

Solder Cup Version with Optional Crimp Contacts
Resilient Environmental Inserts
Fast, Easy Bayonet Coupling
Over 40 Power and Signal Insert Arrangements
All Shell Styles: Plug, Square Flange, Jam-Nut, etc.
High Shock and Vibration Resistance
Pin Counts from 2 to 61; Size #16 and #20 Contacts
Audible and Visual Coupling Indicators
Keyed Polarization



MIL-C-26482

The Glenair IPT miniature bayonet-lock connector series is based on the MIL-C-26482 Series I standard, and shares the same insert arrangements, shell dimensions, supported contacts and electrical performance ratings as MIL-C-26482 and VG 95328. The MIL-C-26482 type 3-point bayonet coupling mechanism provides easy mating and positive locking resistance to vibration, shock, and other connector de-coupling forces in general duty and environmental interconnect systems such as military and commercial aircraft, medical equipment, industrial controls, factory robotics, instrumentation and other general electronic applications.

Component Materials

IPT connectors are available in aluminum alloy and are supplied with a range of popular and RoHs compatible shell plating finishes. Most styles are available in either a basic (A) version as well as an (E) version that ships with a wire sealing grommet for additional environmental protection. Our F2, F6 and F7 platings are RoHs compliant.

EMI and Environmental Applications

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

Equipped with the appropriate backshells and environmental sealing, the connectors are submersible for 48 hours up to a depth of two meters.

Connector Accessories

Many of the IPT Series connectors come standard 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 dustcaps 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.



Glenair IPT Series

Bayonet-Lock Signal Connectors (MIL-C-26482 Type)

How to Order • Part Number Breakdown



IPT Series
Bayonet Lock
Connectors

Environmental Class

A, AM - Indicates the Supplied Connector/Backshell Assembly Does Not Include a Wire Sealing Grommet
E, G, M, EM - Indicates the Supplied Connector/Backshell Assembly Includes a Wire Sealing Grommet
W, J - Indicates the Supplied Connector/Backshell Assembly Includes an Overall Cable Sealing Gland

Accessory Description*

PG - Backshell for Attachment of PG Cable Gland
PH - Backshell with Plastic PG Cable Gland
PHM - Backshell with PHM Cable Gland
PHM-EMI67 - EMI Backshell with PHM Cable Gland and IP67 Level Environmental Sealing
SR - Cable Clamp and Bushing
NO - No Backshell of Any Kind Supplied
NO AT - Arctic Coupling Nut Supplied w/out Backshell
**Not Used When Environmental Class Code Incorporates the Backshell Description—See Individual Catalog Pages for Details*

**Plug
Grounding
Fingers**
Omit for
Standard

**Shell Size
and
Insert
Arrangement**

**Alternate
Insert Rotation**
Omit for Normal

IPT

G

06

A

18-11

P

X

C

SR

XX

**MIL-C-26482
Series I
Type**

**Contact
Gender**
*P - Pin
S - Socket*

**Contact
Type**
*C - Crimp
(Omit for
Solder Cup)*

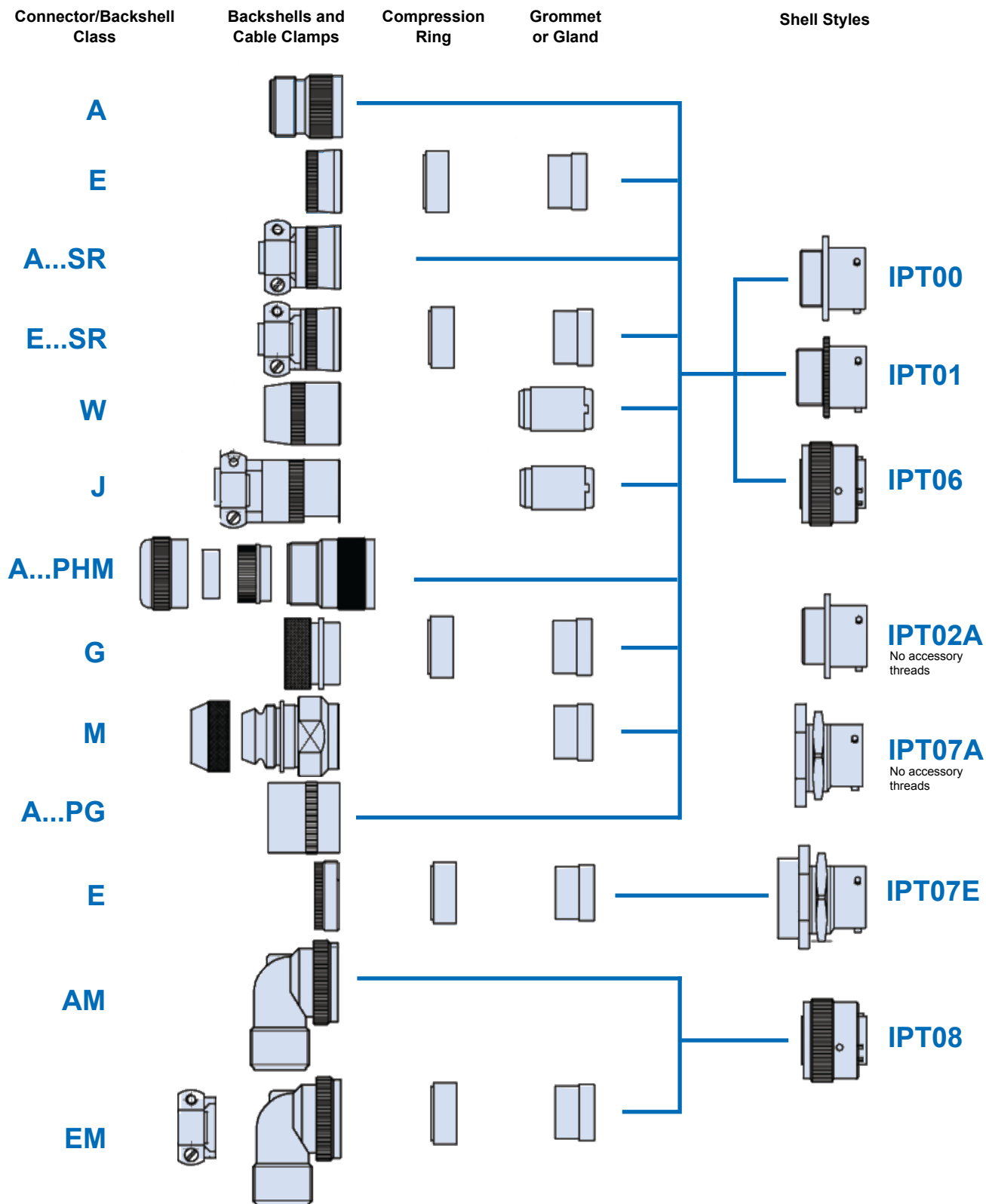
**Mod Code
Options**
F2 - Nickel Plating (RoHs)
F6 - Black Electro-deposited Paint (RoHs)
F7 - Black Zn-Co Plating (RoHs)
F8 - Olive Drab Zn-Co Plating
*(Omit for
Standard Finish -
Cad/Olive Drab)*

Connector Shell Styles

00 - Front Panel Mount Square Flange Receptacle with Accessory Threads
01 - In-Line Receptacle with Accessory Threads
02 - Rear Box Mount Square Flange Receptacle with No Accessory Threads
02PP - Rear Box Mount Square Flange Through Bulkhead Receptacle
06 - Straight Plug Connector with Accessory Threads
07 - Rear Box Mount Jam Nut Receptacle
08 - Plug Connector with 90° Backshell
26 - Rear Box Mount Square Flange Plug Connector

For Alternate Key Positions (Page B-11), please contact the factory.

Glenair IPT Series Bayonet-Lock Signal Connectors (MIL-C-26482 Type) Styles and Classes



Glenair IPT Series
Bayonet-Lock Signal Connectors (MIL-C-26482 Type)
Styles and Classes



Glenair IPT Series products are typically supplied in termination assemblies that include the chosen style of connector together with a specific backshell accessory.

A: For general-duty applications. This non-environmental connector-backshell assembly is supplied with a general-duty backshell for the attachment of additional accessories such as MS 3057 cable clamps (ordered separately). Non-environmental: no grommet supplied.

E: For general-duty environmental applications using individual wires. Environmental sealing is provided through an individual wire sealing grommet in the connector and an overall cable grommet seal in the backshell. No cable clamp supplied.

A...SR: Same as class A, but with cable clamp and bushing for cable protection.

E...SR: Same as class E, but with cable clamp and bushing for cable protection.

W: Long backshell to ease assembly. Incorporates metal sleeve and gland seal to provide overall cable sealing for improved environmental protection. No cable clamp provided.

J: Same as class W, but with cable clamp for improved strain relief.

A...PHM: Connector with quick and easy to assemble PHM cable gland backshell. Supplied with different diameter sleeves to accommodate varying cable sizes.

G: Plug with straight backshell for heatshrink boot.

M: Plug with removable backshell for screen termination and heatshrink boot.

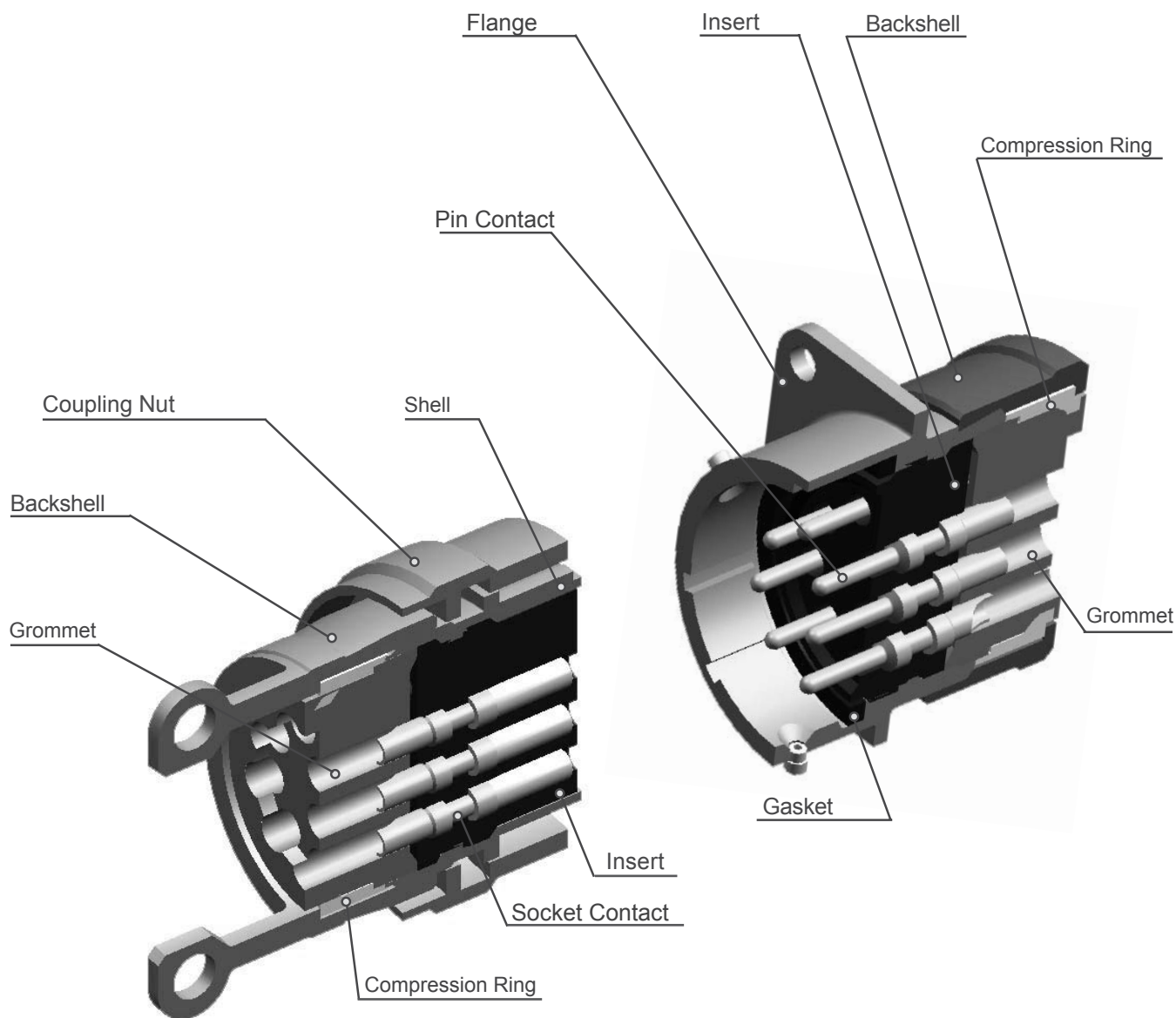
A...PG: Plug with straight PG threaded backshell for attachment of PG cable glands in compliance with DIN 40430.

AM: Non-environmental with 90° backshell for termination of EMI shielding.

EM: Environmental, includes rear wire sealing grommet and 90° backshell for EMI shield termination.

Also Available (Not Shown in Style and Class Graphic):

A...PHM EMI67: Watertight connector and PHM cable gland backshell, resistant to IP67, suitable for EMI shielded cables. Supplied with different diameter sleeves to accommodate varying cable diameters.

**Glenair IPT Series
Bayonet-Lock Signal Connectors (MIL-C-26482 Type)
Cross Section**

The Glenair IPT miniature bayonet-lock connector series features a 3 point bayonet coupling mating interface with stainless steel coupling pins for advanced durability. Resilient inserts provide outstanding dielectric performance and environmental protection. Individual wire sealing grommets elevate the environmental protection rating to IP67. Conductive metal shells and plating provide a reliable ground plane for EMI applications when connectors are combined with appropriate shield termination backshells. Ground springs are also available in plug versions to further enhance EMC. Shells are keyed with five total alternate key positions. Inserts may also be clocked for additional polarization protection. The connectors are temperature rated from -55°C to +125°C (see opposite page for current ratings versus temperature). Standard solder cup contact versions enable direct attachment of wire without the use of specialized crimp tools.

Glenair IPT Series

Bayonet-Lock Signal Connectors (MIL-C-26482 Type)

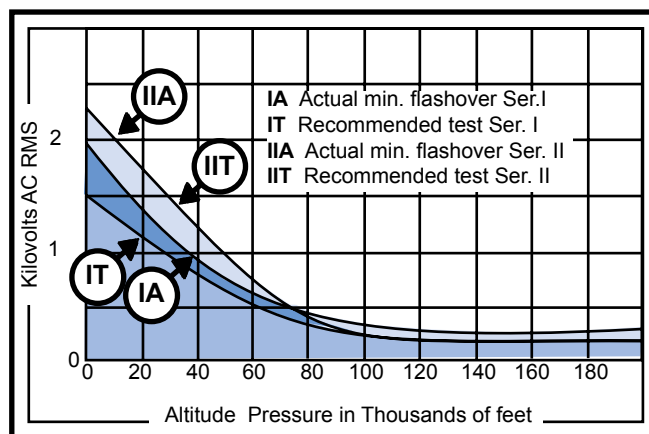
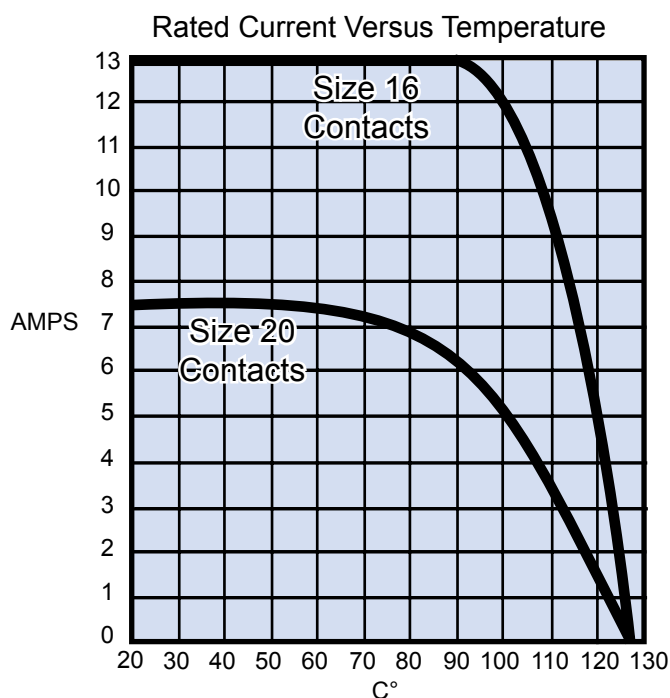
Technical Data



IPT Series
Bayonet Lock
Connectors

Service Rating			
Class	Operating voltage AC	Operating voltage DC	Test voltage AC
I	600	700	1500
II	1000	1250	2300

Potential Drop		
Contact size	Test current	Potential drop
20	7.5 A	25 mV
16	13.0 A	21 mV





Glenair IPT Series Bayonet-Lock Signal Connectors (MIL-C-26482 Type) Materials and Finishes

MATERIALS		
SHELLS	INSERTS (Temperature Range)	SURFACE FINISHES
Aluminum Alloy IAW QQ-A-591 Shells	High Insulation Synthetic Rubber (Chloroprene): -55°C/+125°C	Olive Drab Cadmium Plating IAW QQ-P-416
Stainless Steel Coupling Pins	High Insulation Synthetic Rubber (Fluoroelastomer): -55°C/+200°C	Bright Nickel Plating - F2 (RoHs)
Stainless Steel Hardware	CONTACTS Copper Alloy with Gold Plating Over Nickel	Black Electrodeposited Paint - F6 (RoHs)
		Black Zn-Co Plating - F7 (RoHs)
		Olive Drab Zn-Co Plating - F8

STANDARD FINISHES (For QQ-A-591 Aluminum Shells)					
Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

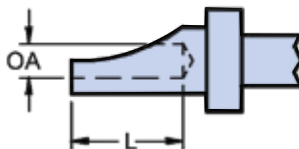
MODIFICATION CODES	
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

Glenair IPT Series Bayonet-Lock Signal Connectors (MIL-C-26482 Type) Contact Dimensions



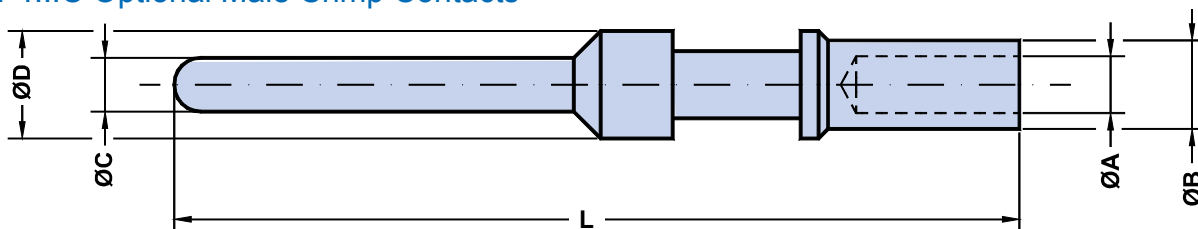
IPT Series
Bayonet Lock
Connectors

IPT Solder Cup Contacts



Contact size	Ø A	L	AWG Max.	Max. wire section
20	1:16	3:17	20	0.6 mmq
16	1.98	4.77	16	1.2 mmq
16 - 2.5	3:00	6:10	-	2.5 mmq

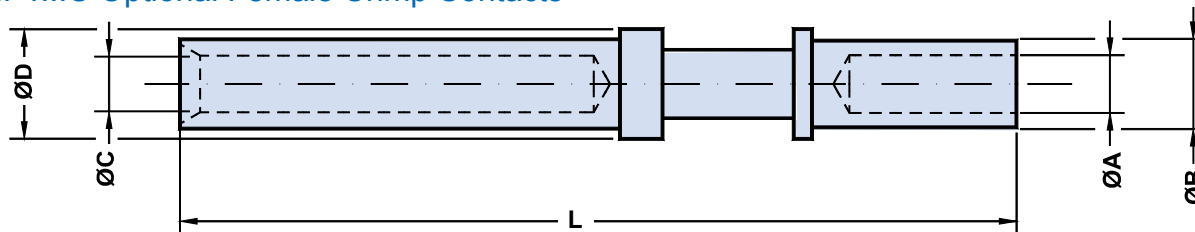
IPT...C Optional Male Crimp Contacts



P/N	Size	mmq	AWG	A +0.03 -0	B +0.02 -0.02	C ±0.02	D +0 -0.03	L ±0.1
10-374-20	20S	0.6	20	1.30	1.93	1.00	2.0	20.37
10-375-20	20	0.6	20	1.30	1.93	1.00	2.0	24.33
10-374-16	16S	1.2	16	1.72	2.60	1.57	3.2	22.30
10-375-16	16	1.2	16	1.72	2.60	1.57	3.2	25.80

Shell Sizes 8 through 18 use the shorter contacts, designated as 16S and 20S

IPT...C Optional Female Crimp Contacts



P/N	Size	mmq	AWG	A +0.03 -0	B +0.02 -0.02	C ±0.02	D +0 -0.03	L ±0.1
10-571-20	20S	0.6	20	1.30	1.93	1.08	1.96	20.40
10-573-20	20	0.6	20	1.30	1.93	1.08	1.96	24.40
10-571-16	16S	1.2	16	1.72	2.60	1.65	2.80	22.25
10-573-16	16	1.2	16	1.72	2.60	1.65	2.80	25.80

Shell Sizes 8 through 18 use the shorter contacts, designated as 16S and 20S

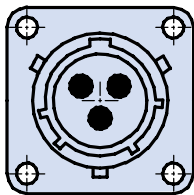
Glenair IPT Series

Insert Arrangement Tables and Alternate Insert Positions

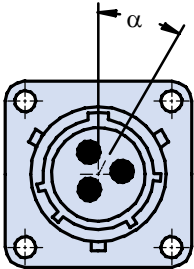
Arrangement	Cl. Isol. Rating	Dim. contact size	
		20	16
8 - 2	I	2	
8 - 3	I	3	
8 - 3A	I	3	
8 - 4	I	4	
8 - 33	I	3	
10 - 2	II		2
10 - 6	I	6	
10 - 7	I	7	
10 - 8	I	8	
10 - 98 *	I	6	
12 - 3	II		3
12 - 4	I		4
12 - 8	I	8	
12 - 10	I	10	
12 - 14	I	14	
12 - A6	I		6
14 - 5	II		5
14 - 12	I	8	4
14 - 12/3	II		12
14 - 14 *	I	14	
14 - 15	I	14	1
14 - 18	I	18	
14 - 19	I	19	
16 - 2	I		2 x 16-2.5
16 - 8	II		8
16 - 23	I	22	1
16 - 26	I	26	
16 - 99	I	21	2
18 - 11	II		11
18 - 30 *	I	29	1
18 - 32	I	32	
20 - 16	II		16
20 - 24	I	24	
20 - 25 *	I	25	
20 - 27 *	I	27	
20 - 39 *	I	37	2
20 - 41	I	41	
22 - 21 *	II		21
22 - 32 *	I	32	
22 - 34	I	34	
22 - 36	I	36	
22 - 41 *	I	27	14
22 - 55	I	55	
24 - 61	I	61	

Arrangement	Degrees			
	W	X	Y	Z
8 - 2	58	122		
8 - 3	60	210		
8 - 3A	60			
8 - 4	45			
8 - 33	90			
10 - 2				
10 - 6	90			
10 - 7	90			
10 - 8				
10 - 98	90	180	240	270
12 - 3			180	
12 - 4	38			
12 - 8	90	112	203	292
12 - 10	60	155	270	295
12 - 14	60	155	270	295
12 - A6				
14 - 5	40	92	184	273
14 - 12	43	90		
14 - 12/3				
14 - 14	17	110	155	234
14 - 15	17	110	155	234
14 - 18	15	90	180	270
14 - 19	30	165	315	
16 - 2				
16 - 8	54	152	180	331
16 - 23	158	270		
16 - 26	60		275	338
16 - 99	66	156	223	340
18 - 11	62	119	241	340
18 - 30	180	193	285	350
18 - 32	85	138	222	265
20 - 16	238	318	333	347
20 - 24	70	145	215	290
20 - 25	72	144	216	288
20 - 27	72	144	216	288
20 - 39	63	144	252	333
20 - 41	45	126	225	
22 - 21	16	135	175	349
22 - 32	72	145	215	288
22 - 34	62	142	218	298
22 - 36	72	144	216	288
22 - 41	39	135	264	
22 - 55	30	142	226	314
24 - 61	90	180	270	324

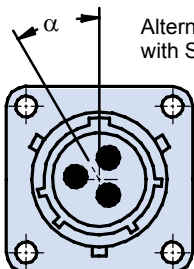
* Consult Factory



Normal
Position



Alternate Position
with Pin Contacts

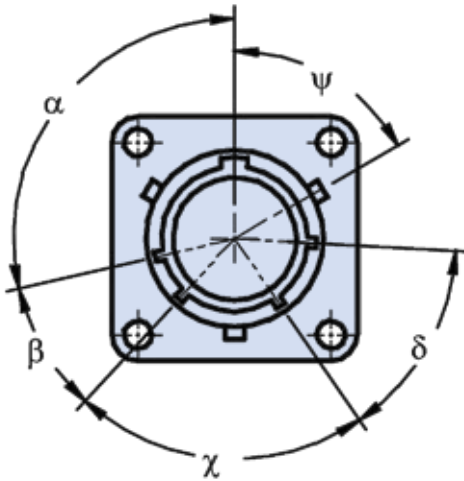


Alternate Position
with Socket Contacts

Glenair IPT Series Alternate Key Positions



IPT Series
Bayonet Lock
Connectors



Shell size	N Polarization				
	α	β	χ	δ	ψ
8	105	35	75	50	60
10	105	35	75	50	60
12	105	35	75	50	60
14	105	35	75	50	60
16	105	35	75	50	60
18	105	35	75	50	60
20	105	35	75	50	60
22	105	35	75	50	60
24	105	35	75	50	60

Shell size	B Polarization				
	α	β	χ	δ	ψ
8	-	-	-	-	-
10	85	35	75	50	40
12	89	35	75	50	44
14	91	35	75	50	46
16	93	35	75	50	48
18	95	35	75	50	50
20	95	35	75	50	50
22	97	35	75	50	52
24	97	35	75	50	52

Shell size	C Polarization				
	α	β	χ	δ	ψ
8	-	-	-	-	-
10	125	35	75	50	80
12	121	35	75	50	76
14	119	35	75	50	74
16	117	35	75	50	72
18	115	35	75	50	70
20	115	35	75	50	70
22	113	35	100	50	68
24	113	35	75	50	68

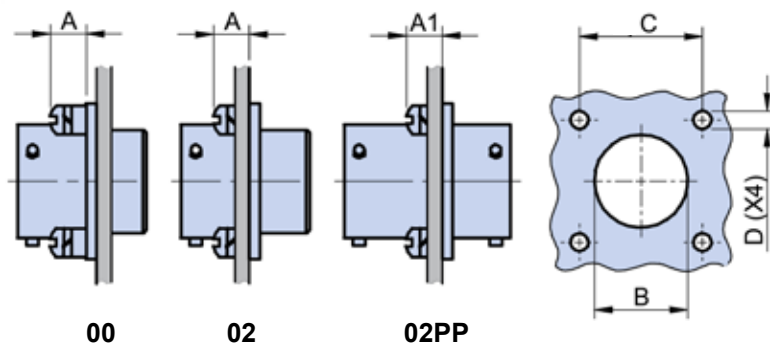
Shell size	E Polarization				
	α	β	χ	δ	ψ
8	118	30	100	30	73
10	115	30	100	30	70
12	115	30	100	30	70
14	75	30	100	30	30
16	75	30	100	30	30
18	75	30	100	30	30
20	75	30	100	30	30
22	75	30	75	30	30
24	75	30	100	30	30

Shell size	F Polarization				
	α	β	χ	δ	ψ
8	82	50	75	45	47
10	85	50	75	45	50
12	85	50	75	45	50
14	120	50	75	35	75
16	120	50	75	35	75
18	120	50	75	35	75
20	120	50	75	35	75
22	120	50	75	35	75
24	120	50	75	35	75

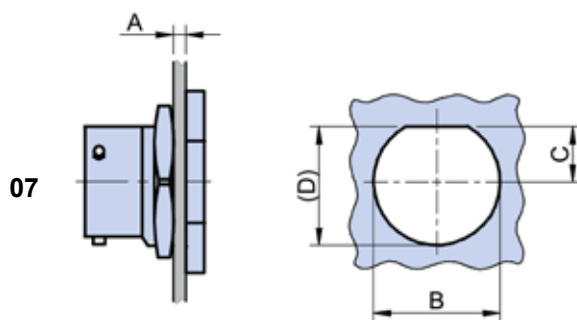
The 3 mating pins are 120° spaced.
The picture shows a receptacle connector.
The key orientation on plug connectors is clockwise.
IAW BS9522 F0017.

Glenair IPT Series Bayonet-Lock Signal Connectors (MIL-C-26482 Type) Fastener Height Requirements and Panel Cutout Dimensions

For front panel mount square flange connectors (00) the "A" dimension indicates the measured maximums that mounting hardware can stand proud from the connector flange before it will interfere with connector mating. For rear box mount square flange connectors (02) the same "A" column maximum dimensions apply, but in this case the measurement taken includes the thickness of the panel wall or box (so the mounting hardware needs to be correspondingly shorter). Column "A1" defines the maximums for the 02PP bulkhead feedthrough product before mounting hardware interferes with mating.



Panel thickness and panel cutout for type 00, 02, 02PP connectors					
Shell size	A max	A1 max	B +0.2 -0	C ±0.1	D ±0.12
8	2.2	5.54	15.1	15.10	3.04
10	2.2	5.54	18.3	18.25	3.04
12	2.2	5.54	20.6	20.60	3.04
14	2.2	5.54	23.0	23.00	3.04
16	2.2	5.54	24.6	24.60	3.04
18	2.2	5.54	27.0	27.00	3.04
20	5.4	8.74	29.4	29.35	3.04
22	5.4	8.74	31.8	31.75	3.04
24	5.4	7.9	34.9	34.90	3.73



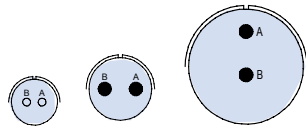
Panel thickness and panel cutout for type 07 connectors				
Shell size	A min ÷ max	B +0.25 -0	C +0 -0.25	D
8	1.6 - 3.2	14.5	6.55	13.8
10	1.6 - 3.2	17.7	8.15	17.0
12	1.6 - 3.2	22.5	9.85	21.1
14	1.6 - 3.2	25.6	11.50	24.3
16	1.6 - 3.2	28.8	13.10	27.5
18	1.6 - 3.2	32.0	14.70	30.7
20	1.6 - 6.3	35.2	16.30	33.9
22	1.6 - 6.3	38.3	17.95	37.1
24	1.6 - 6.3	41.5	19.25	40.0

Glenair IPT Series Available Insert Arrangements



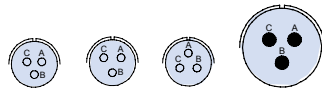
IPT Series
Bayonet Lock
Connectors

2 Contacts



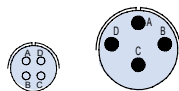
Arrangement:	8-2	10-2	16-2
Contact Size:	20	16	16-2.5
Service Rating:	I	II	I

3 Contacts



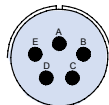
Arrangement:	8-3	8-3A	8-33	12-3
Contact Size:	20	20	20	16
Service Rating:	I	I	I	II

4 Contacts



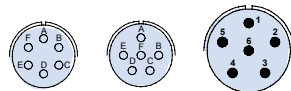
Arrangement:	8-4	12-4
Contact Size:	20	16
Service Rating:	I	I

5 Contacts



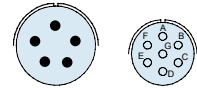
Arrangement:	14-5
Contact Size:	16
Service Rating:	II

6 Contacts



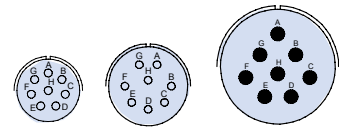
Arrangement:	10-6	10-98*	12-A6
Contact Size:	20	20	16
Service Rating:	I	II	I

7 Contacts



Arrangement:	14-5	10-7
Contact Size:	16	20
Service Rating:	II	I

8 Contacts



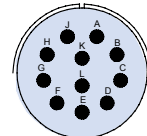
Arrangement:	10-8	12-8	16-8
Contact Size:	20	20	16
Service Rating:	I	I	II

10 Contacts



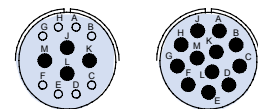
Arrangement:	12-10
Contact Size:	20
Service Rating:	I

11 Contacts



Arrangement:	18-11
Contact Size:	16
Service Rating:	II

12 Contacts



Arrangement:	14-12	14-12/3
Contact Size:	8-20, 4-16	16
Service Rating:	I	I

Contact
Legend

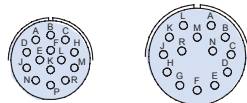


* Consult
Factory



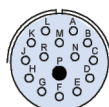
Glenair IPT Series Available Insert Arrangements

14 Contacts



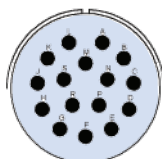
Arrangement:	12-14	14-14*
Contact Size:	20	20
Service Rating:	I	I

15 Contacts



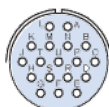
Arrangement:	14-15
Contact Size:	14-20, 1-16
Service Rating:	I

16 Contacts



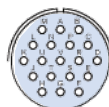
Arrangement:	20-16
Contact Size:	16
Service Rating:	II

18 Contacts



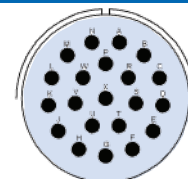
Arrangement:	14-18
Contact Size:	20
Service Rating:	I

19 Contacts



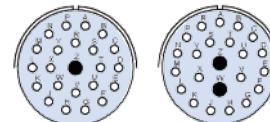
Arrangement:	14-19
Contact Size:	20
Service Rating:	I

21 Contacts



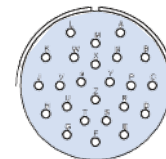
Arrangement:	22-21*
Contact Size:	16
Service Rating:	II

23 Contacts



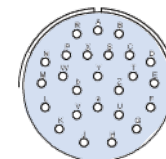
Arrangement:	16-23	16-99
Contact Size:	22-20, 1-16	21-20, 2-16
Service Rating:	I	I

24 Contacts



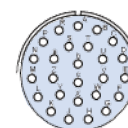
Arrangement:	22-24*
Contact Size:	20
Service Rating:	I

25 Contacts



Arrangement:	20-25*
Contact Size:	20
Service Rating:	I

26 Contacts



Arrangement:	16-26
Contact Size:	20
Service Rating:	I

Contact
Legend



20



16

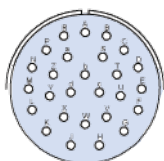
* Consult
Factory

Glenair IPT Series Available Insert Arrangements



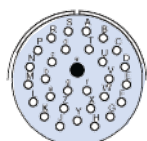
IPT Series
Bayonet Lock
Connectors

27 Contacts



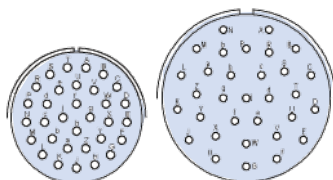
Arrangement:	20-27*
Contact Size:	20
Service Rating:	I

30 Contacts



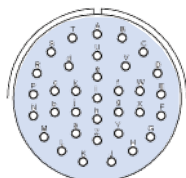
Arrangement:	18-30*
Contact Size:	29-20, 1-16
Service Rating:	I

32 Contacts



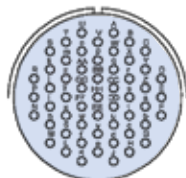
Arrangement:	18-32	22-32*
Contact Size:	20	20
Service Rating:	I	I

34 Contacts



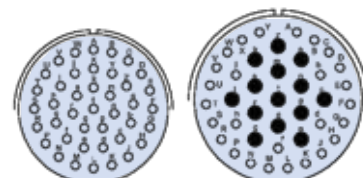
Arrangement:	22-34
Contact Size:	20
Service Rating:	I

36 Contacts



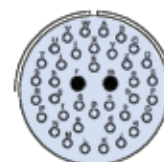
Arrangement:	22-36
Contact Size:	20
Service Rating:	I

41 Contacts



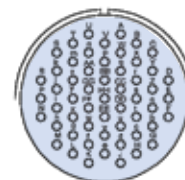
Arrangement:	20-41	22-41*
Contact Size:	20	27-20, 14-16
Service Rating:	I	I

39 Contacts



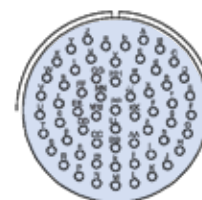
Arrangement:	20-39*
Contact Size:	37-20, 2-16
Service Rating:	I

55 Contacts



Arrangement:	22-55
Contact Size:	20
Service Rating:	I

61 Contacts



Arrangement:	24-61
Contact Size:	20
Service Rating:	I

Contact
Legend



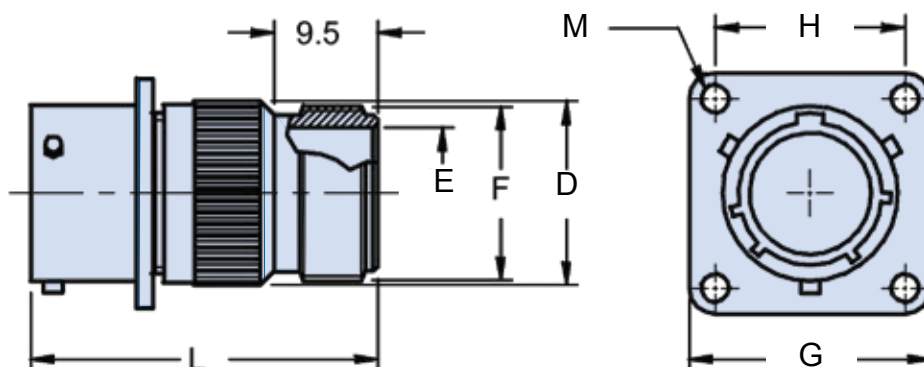
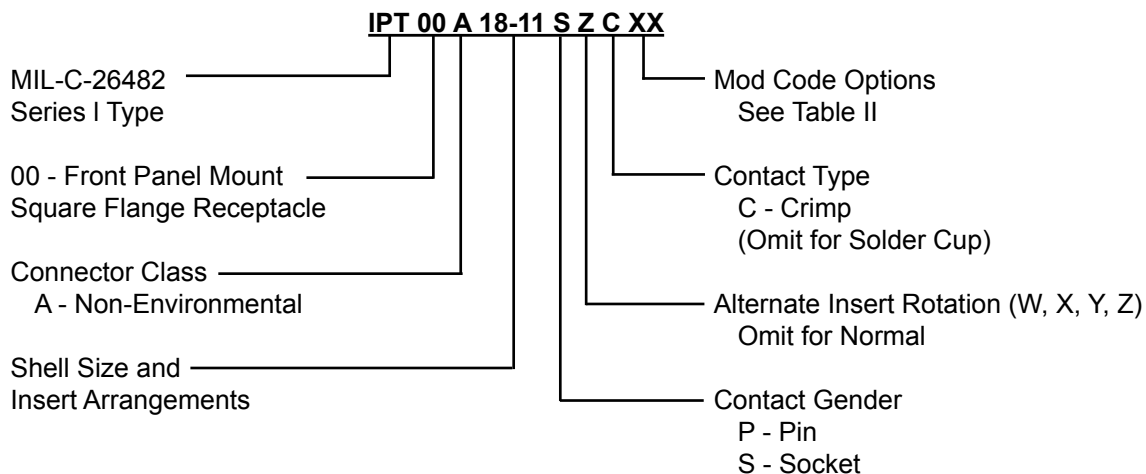
20



16

* Consult
Factory

IPT 00 A **Front Panel Mount Square Flange Receptacle** **with Backshell**



APPLICATION NOTES

1. Front panel wall mount receptacle with backshell for the attachment of additional accessories; through mounting holes.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 A

Front Panel Mount Square Flange Receptacle with Backshell



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	D Max.	E min.	F Thread in inches	G ±0.4	H ±0.1	L Max.	M ±0.12
8	15.00	7.55	.5000 - 28 UNEF	20.6	15.10	40.9	3.04
10	18.20	10.70	.6250 - 24 UNEF	23.8	18.25	40.9	3.04
12	21.20	13.85	.7500 - 20 UNEF	26.2	20.60	40.9	3.04
14	24.60	16.85	.8750 - 20 UNEF	28.6	23.00	40.9	3.04
16	27.60	20.00	1.0000 - 20 UNEF	31.0	24.60	40.9	3.04
18	30.90	22.30	1.1875 - 18 UNEF	33.3	27.00	40.9	3.04
20	33.80	25.75	1.1875 - 18 UNEF	36.5	29.35	45.0	3.04
22	37.10	28.80	1.4375 - 18 UNEF	39.7	31.75	45.0	3.04
24	40.25	32.00	1.4375 - 18 UNEF	42.9	39.40	45.0	3.73

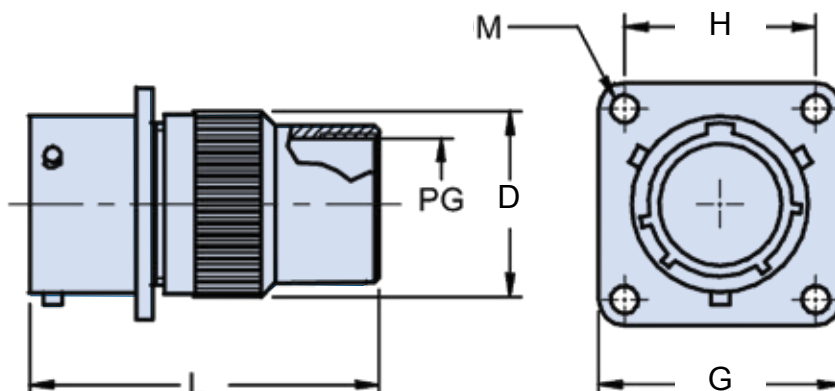
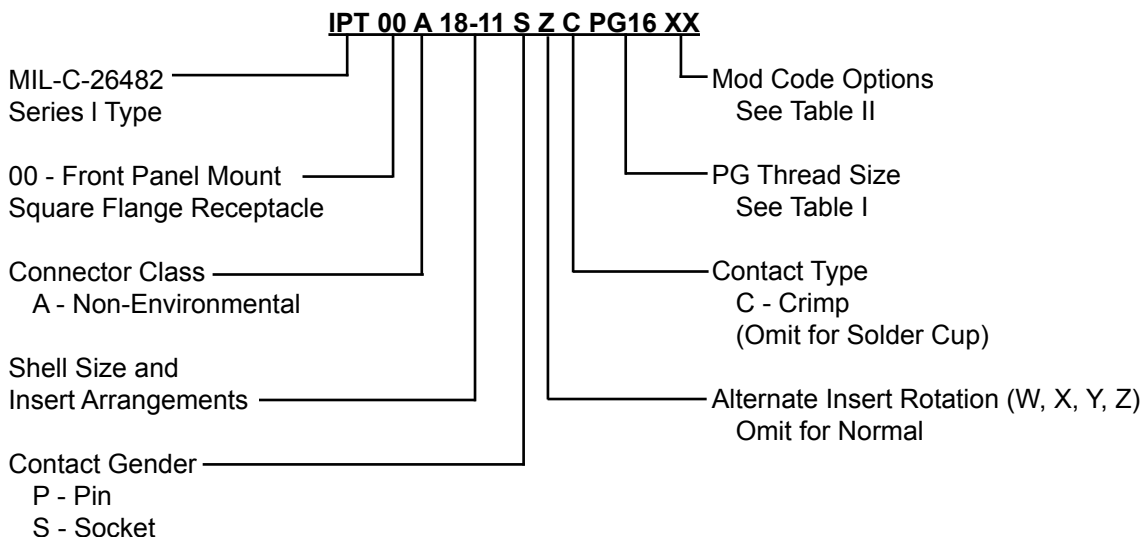
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 A...PG__ Front Panel Mount Square Flange Receptacle with Backshell for Use with PG Cable Clamp (Clamp Not Included)



APPLICATION NOTES

1. Front panel mount square flange receptacle with backshell for use with PG clamp (not included). Other PG sizes and types available on request. Includes rear threads for attachment of various backend connector accessories; through mounting holes.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 A...PG_ _
Front Panel Mount Square Flange Receptacle
with Backshell for Use with
PG Cable Clamp (Clamp Not Included)



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	D Max	L Max	PG Thread	H ±0.1	G ±0.4	M ±0.12
8	18.0	40	7 / 9	15.10	20.6	3.04
10	18.0	40	9	18.25	23.8	3.04
12	23.5	40	11	20.60	26.2	3.04
14	24.5	45	11 / 13.5 / 16	23.00	28.6	3.04
16	28.0	45	11 / 13.5 / 16	24.60	31.0	3.04
18	30.5	45	13.5 / 16	27.00	33.3	3.04
20	33.5	52	13.5 / 16	29.35	36.5	3.04
22	37.0	60	13.5 / 16 / 21	31.75	39.7	3.04
24	40.0	60	13.5 / 16 / 21	39.40	42.9	3.73

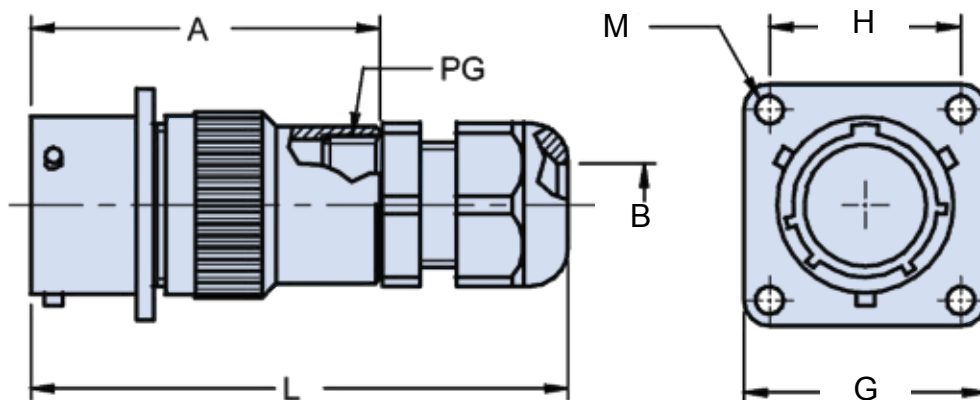
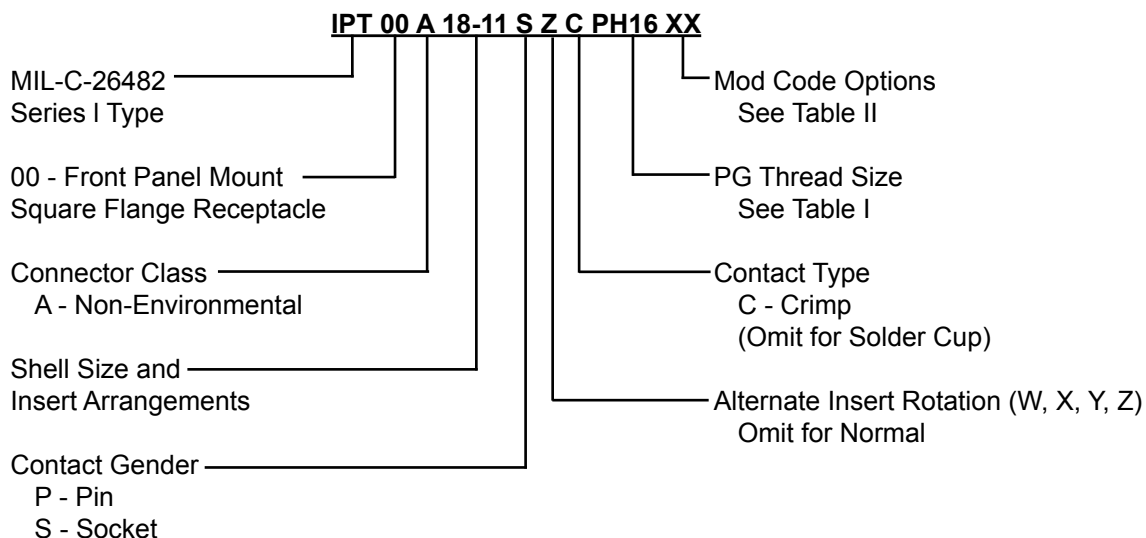
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 A...PH_ _ **Front Panel Mount Square Flange Receptacle** **with Backshell and PG Cable Gland**



APPLICATION NOTES

1. Front panel mount square flange receptacle with backshell and plastic PG cable gland. Other PG sizes and types available upon request; through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 A...PH_ _
Front Panel Mount Square Flange Receptacle
with Backshell and PG Cable Gland



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A Max	B min. - max.	PG Thread	L Max.	H ±0.1	G ±0.4	M ±0.12
8	40	3 - 6.5 / 4 - 8	7 / 9	65	15.10	20.6	3.04
10	40	4 - 8	9	65	18.25	23.8	3.04
12	40	5 - 10	11	65	20.60	26.2	3.04
14	45	5 - 10 / 6 - 12 / 9 - 14	11 / 13.5 / 16	75	23.00	28.6	3.04
16	45	5 - 10 / 6 - 12 / 9 - 14	11 / 13.5 / 16	75	24.60	31.0	3.04
18	45	6 - 12 / 9 - 14	13.5 / 16	75	27.00	33.3	3.04
20	52	6 - 12 / 9 - 14	13.5 / 16	82	29.35	36.5	3.04
22	60	6 - 12 / 9 - 14 / 13 - 18	13.5 / 16 / 21	95	31.75	39.7	3.04
24	60	6 - 12 / 9 - 14 / 13 - 18	13.5 / 16 / 21	95	39.40	42.9	3.73

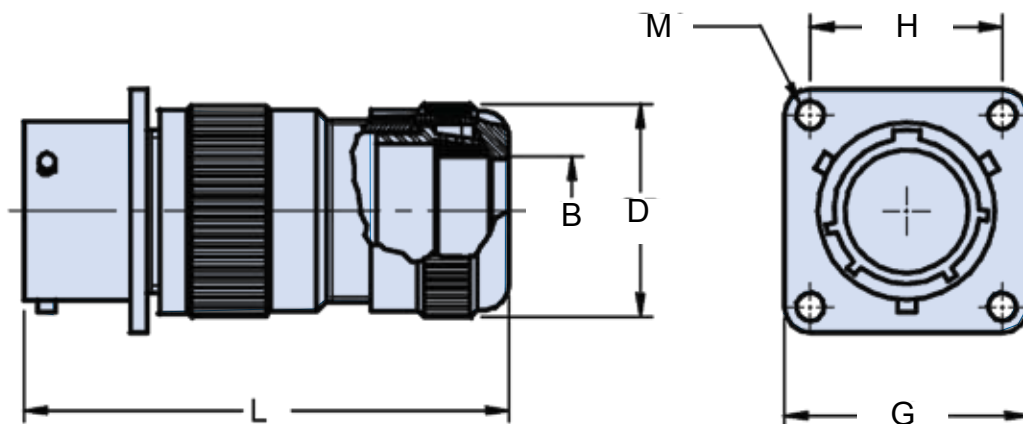
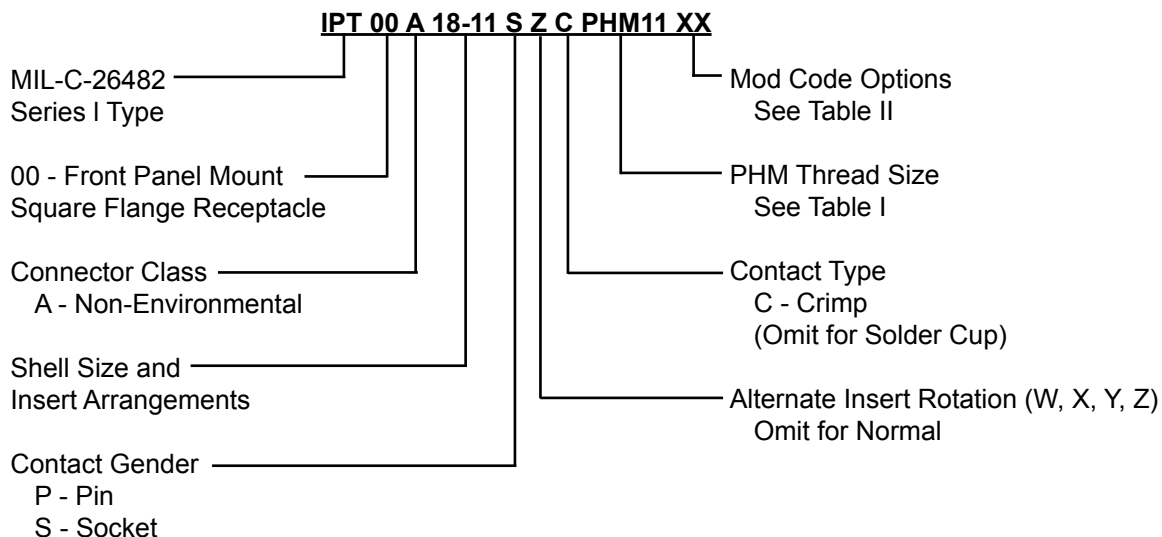
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 A...PHM__ **Front Panel Mount Square Flange Receptacle** **with PHM Backshell** **and Sleeves to Accommodate Various Cable Sizes**



APPLICATION NOTES

1. Front panel mount square flange receptacle with backshell and PHM cable clamp. Rubber sleeves included to allow use of different diameter cables.
2. Connector Class "A" (non-environmental)—no grommet supplied. PHM connector accessory provides environmental sealing to IP65.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 A...PHM_ _
Front Panel Mount Square Flange Receptacle
with PHM Backshell
and Sleeves to Accommodate Various Cable Sizes



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	P.N. PHM	B min. - max.	D Max.	G ±0.4	H ±0.1	L Max.	M ±0.12
8	11	2 - 7	15.0	20.6	15.10	47.0	3.04
10	11	2 - 9	21.0	23.8	18.25	49.0	3.04
12	11	2 - 11	24.0	26.2	20.60	58.0	3.04
14	11	2 - 11	24.0	28.6	23.00	58.0	3.04
16	11	2 - 11	24.0	31.0	24.60	58.0	3.04
18	11 / 18	2 - 11 / 9 - 16.5	42.0	33.3	27.00	75.0	3.04
20	18	9 - 16.5	42.0	36.5	29.35	75.0	3.04
22	18	9 - 16.5	42.0	39.7	31.75	75.0	3.04
24	18 / 22 / 24	9 - 16.5 / 15 - 20 / 19 - 24	42.0	42.9	39.40	75.0	3.73

TABLE II: MODIFICATION CODES

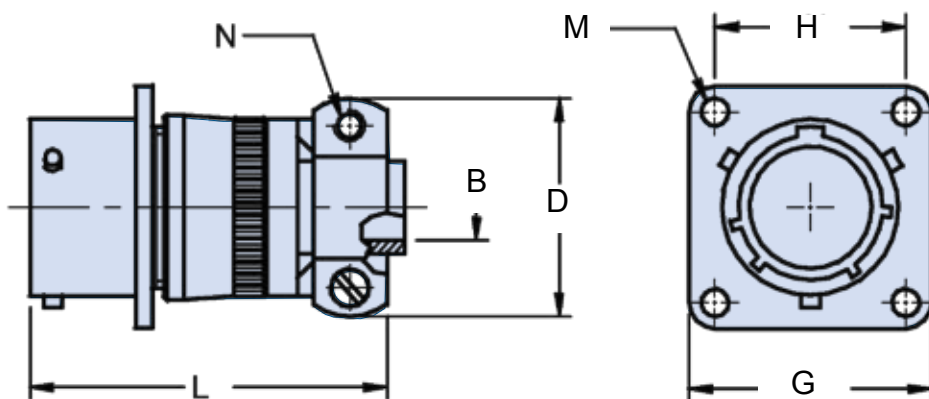
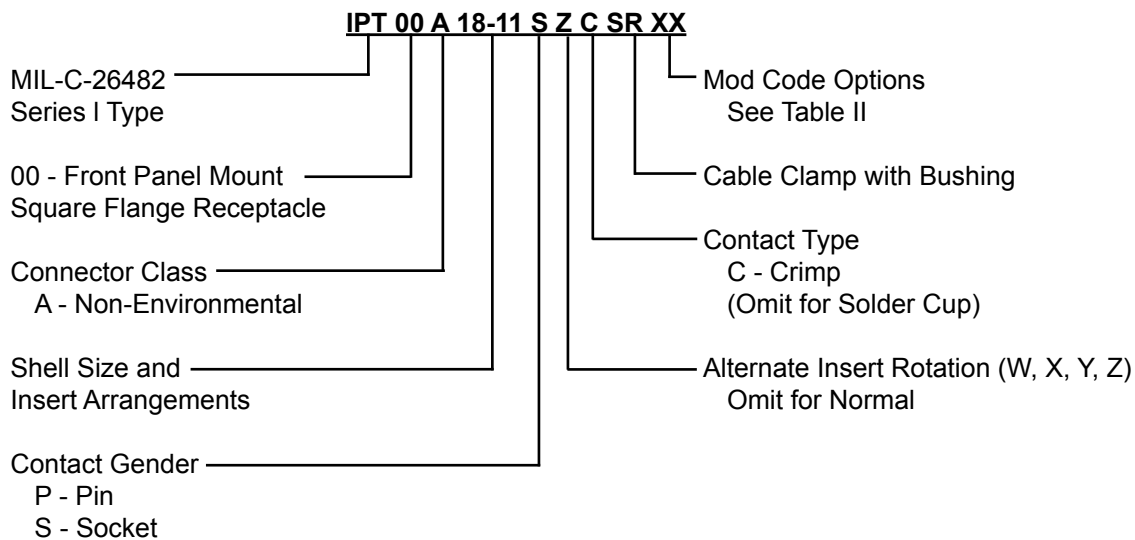
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 A...SR

Front Panel Mount Square Flange Receptacle with Backshell, Bushing and Cable Clamp



APPLICATION NOTES

1. Front panel mount square flange receptacle with backshell, bushing and cable clamp; through mounting holes.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 A...SR
Front Panel Mount Square Flange Receptacle
with Backshell, Bushing and Cable Clamp



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	E Max.	G ±0.4	H ±0.1	L Max.	M ±0.12	N Thread
8	3.2	20.60	20.6	15.10	45.1	3.04	6 - 32
10	4.8	22.20	23.8	18.25	45.1	3.04	6 - 32
12	7.9	25.40	26.2	20.60	45.1	3.04	6 - 32
14	9.5	28.60	28.6	23.00	45.1	3.04	6 - 32
16	12.7	30.20	31.0	24.60	48.4	3.04	6 - 32
18	15.9	36.50	33.3	27.00	48.4	3.04	8 - 32
20	15.9	36.50	36.5	29.35	54.8	3.04	8 - 32
22	19.0	43.65	39.7	31.75	54.8	3.04	8 - 32
24	20.3	43.65	42.9	39.40	56.4	3.73	8 - 32

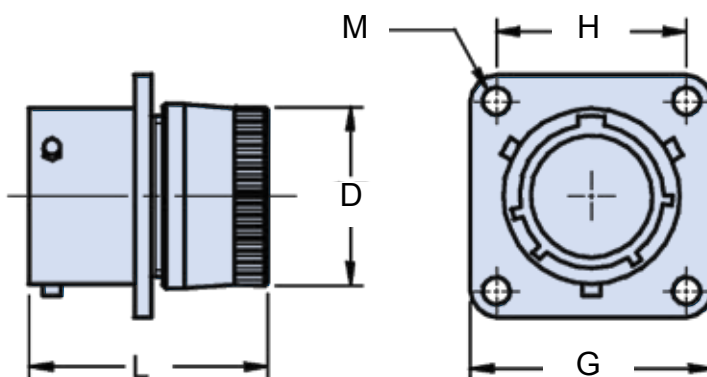
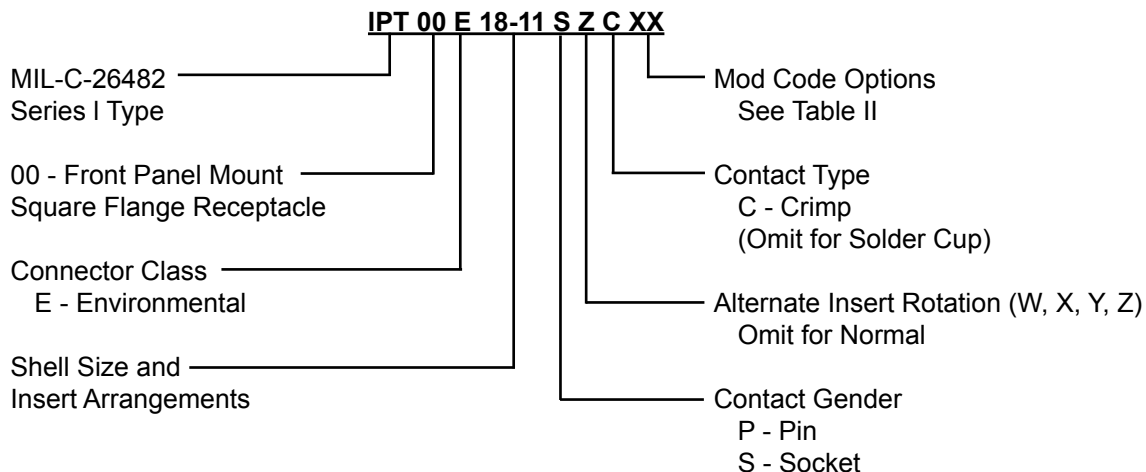
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 E **Front Panel Mount Square Flange Receptacle** **with General Duty Backshell**



APPLICATION NOTES

1. Front panel mount square flange receptacle includes sealing grommet and backshell for use with individual wires. Also includes general duty backshell for the attachment of various backend connector accessories; through mounting holes.
2. Connector Class "E" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 E

Front Panel Mount Square Flange Receptacle with General Duty Backshell



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	D Max.	G ±0.4	H ±0.1	L Max.	M ±0.12
8	14.20	20.6	15.10	32.15	3.04
10	17.40	23.8	18.25	32.15	3.04
12	20.65	26.2	20.60	32.15	3.04
14	23.60	28.6	23.00	32.15	3.04
16	26.85	31.0	24.60	32.15	3.04
18	29.85	33.3	27.00	32.15	3.04
20	33.00	36.5	29.35	38.50	3.04
22	36.30	39.7	31.75	38.50	3.04
24	39.50	42.9	39.40	40.10	3.73

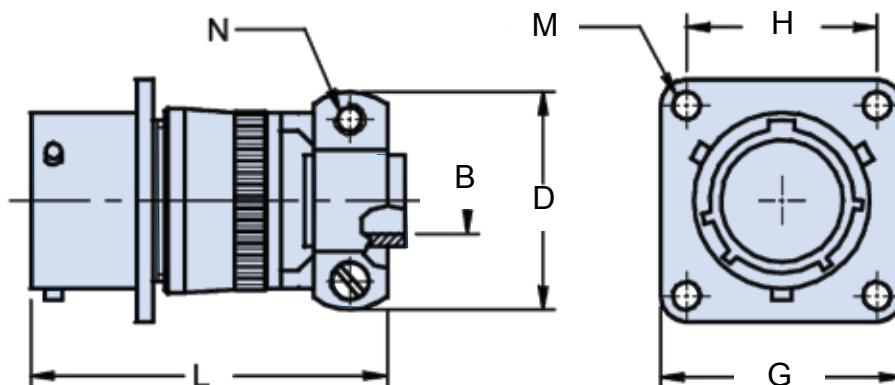
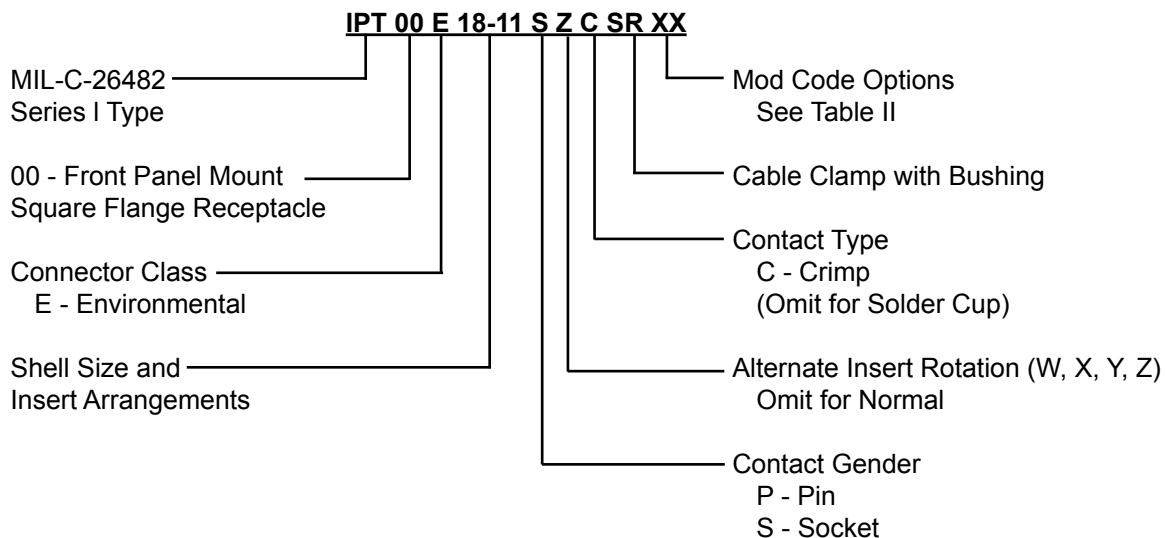
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 E...SR Front Panel Mount Square Flange Receptacle with Backshell, Cable Clamp and Bushing



APPLICATION NOTES

1. Front panel mount square flange receptacle with cable clamp and bushing for cable protection; through mounting holes.
2. Connector Class "E" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 E...SR
Front Panel Mount Square Flange Receptacle
with Backshell, Cable Clamp and Bushing



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	E Max.	G ±0.4	H ±0.1	L Max.	M ±0.12	N Thread
8	3.2	20.60	20.6	15.10	45.1	3.04	6 - 32
10	4.8	22.20	23.8	18.25	45.1	3.04	6 - 32
12	7.9	25.40	26.2	20.60	45.1	3.04	6 - 32
14	9.5	28.60	28.6	23.00	45.1	3.04	6 - 32
16	12.7	30.20	31.0	24.60	48.4	3.04	6 - 32
18	15.9	36.50	33.3	27.00	48.4	3.04	8 - 32
20	15.9	36.50	36.5	29.35	54.8	3.04	8 - 32
22	19.0	43.65	39.7	31.75	54.8	3.04	8 - 32
24	20.3	43.65	42.9	39.40	56.4	3.73	8 - 32

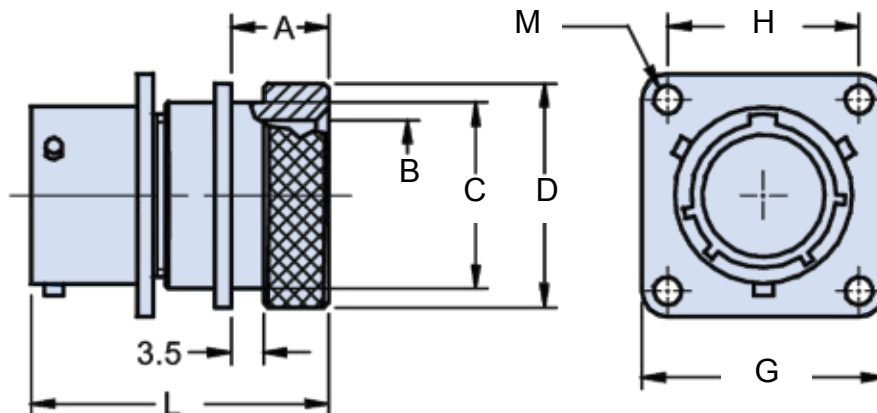
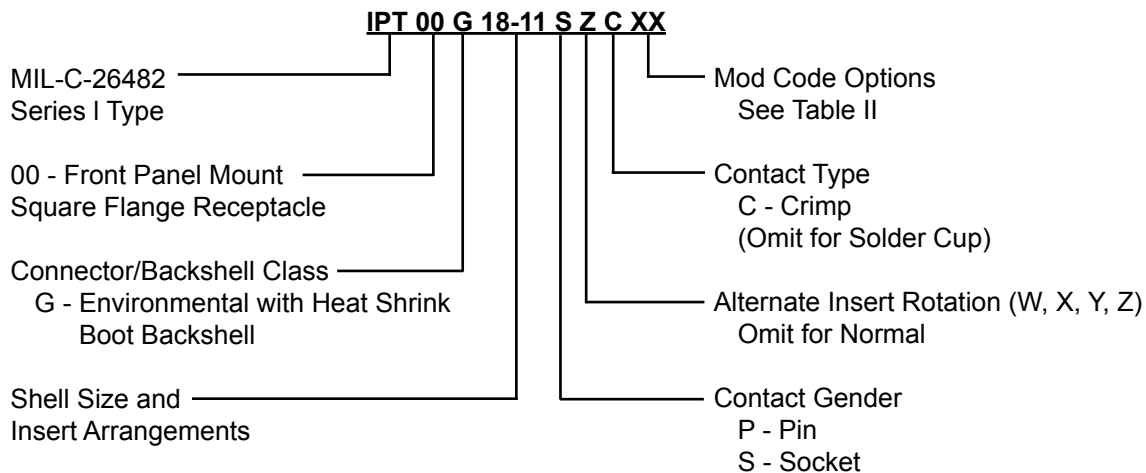
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 G **Front Panel Mount Square Flange Receptacle** **with Shrink Boot Backshell**



APPLICATION NOTES

1. Front panel mount square flange receptacle with sealing grommet and backshell for heat shrink boot; through mounting holes.
2. Connector/Backshell Class "G" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 G
Front Panel Mount Square Flange Receptacle
with Shrink Boot Backshell



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A ±0.1	B +0.1 -0	C +0 -0.1	D +0 -0.3	G ±0.4	H ±0.1	L Max.	M ±0.12
8	12.2	8.20	13.0	15.5	20.6	15.10	39	3.04
10	12.2	11.40	15.8	18.3	23.8	18.25	39	3.04
12	12.2	14.55	21.0	23.6	26.2	20.60	39	3.04
14	12.2	17.50	21.8	24.4	28.6	23.00	39	3.04
16	14.5	20.60	25.9	29.7	31.0	24.60	42	3.04
18	14.5	23.15	28.2	31.9	33.3	27.00	42	3.04
20	15.8	26.50	32.2	36.0	36.5	29.35	47	3.04
22	15.8	29.60	34.5	38.4	39.7	31.75	47	3.04
24	14.9	32.80	37.6	41.5	42.9	39.40	47	3.73

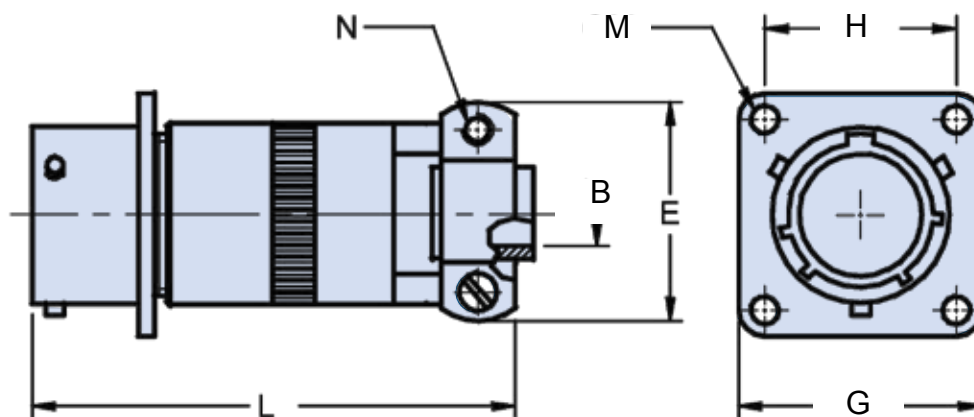
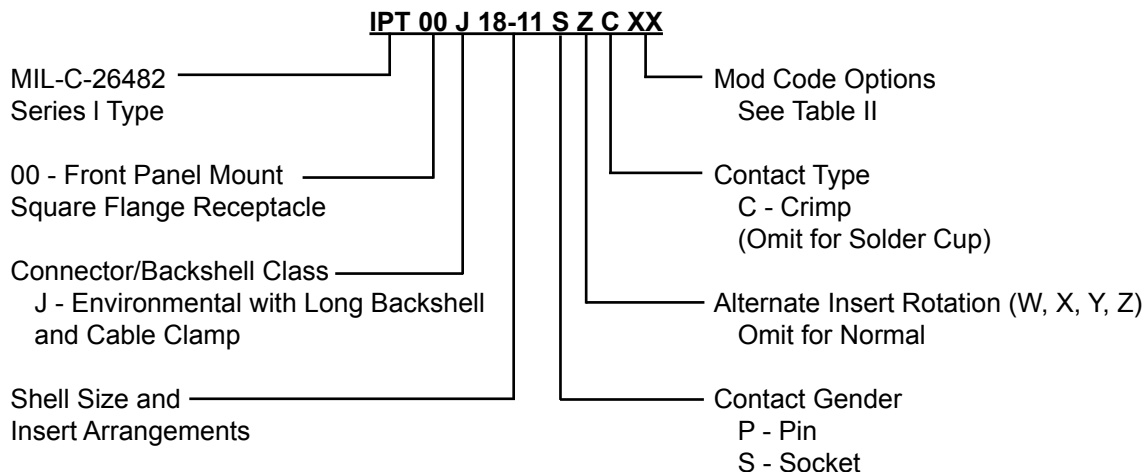
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHS)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHS)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHS)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 J **Front Panel Mount Square Flange Receptacle** **with Long Backshell and Cable Clamp**



APPLICATION NOTES

1. Front panel mount square flange receptacle with long backshell, incorporated metal sleeve, gland seal and cable clamp; through mounting holes.
2. Connector/Backshell Class "J" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 J

Front Panel Mount Square Flange Receptacle with Long Backshell and Cable Clamp



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	E Max.	G ±0.4	H ±0.1	L Max.	M ±0.12	N Thread
8	3.2	20.60	20.6	15.10	55.45	3.04	6 - 32
10	4.8	22.20	23.8	18.25	55.45	3.04	6 - 32
12	7.9	25.40	26.2	20.60	59.05	3.04	6 - 32
14	9.5	28.60	28.6	23.00	63.95	3.04	6 - 32
16	12.7	30.20	31.0	24.60	72.80	3.04	6 - 32
18	15.9	36.50	33.3	27.00	78.65	3.04	8 - 32
20	15.9	36.50	36.5	29.35	89.70	3.04	8 - 32
22	19.0	43.65	39.7	31.75	93.90	3.04	8 - 32
24	20.3	43.65	42.9	39.40	100.00	3.73	8 - 32

TABLE II: MODIFICATION CODES

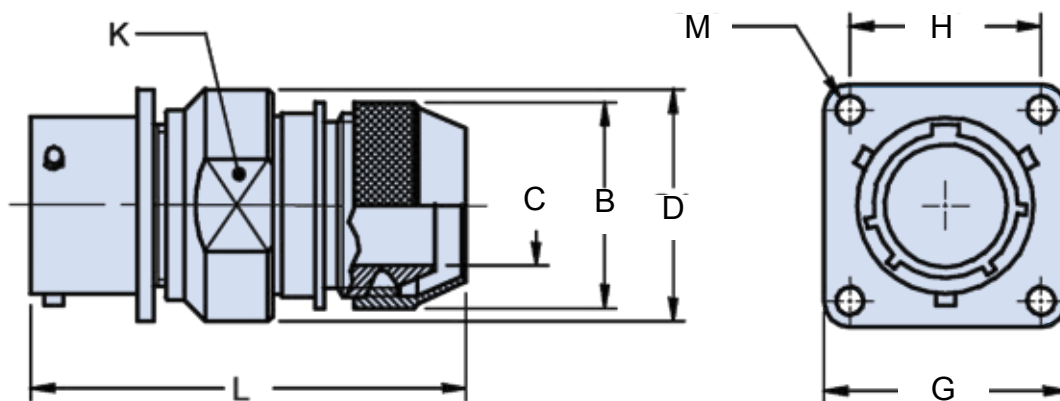
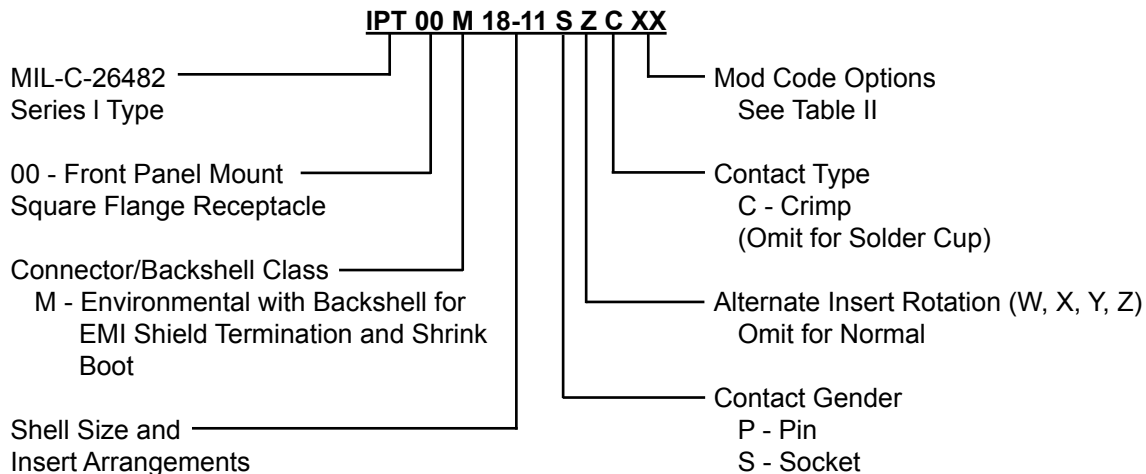
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 M

Front Panel Mount Square Flange Receptacle with Backshell for EMI Shield Termination and Shrink Boot



APPLICATION NOTES

1. Front panel wall mount receptacle with backshell for terminating shielded cable, suitable for heat shrink boots; through mounting holes.
2. Connector/Backshell Class "M" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 M
Front Panel Mount Square Flange Receptacle
with Backshell
for EMI Shield Termination and Shrink Boot



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A Max.	B Max.	C min.	G ±0.4	H ±0.1	L Max.	M ±0.12	K Key
8	19.80	16.3	6.70	20.6	15.10	52.0	3.04	18
10	22.50	18.4	9.30	23.8	18.25	52.0	3.04	21
12	26.90	22.4	12.25	26.2	20.60	52.0	3.04	24
14	29.90	25.4	15.40	28.6	23.00	53.0	3.04	28
16	32.85	28.4	18.50	31.0	24.60	53.0	3.04	31
18	35.80	32.4	20.20	33.3	27.00	53.0	3.04	34
20	39.60	34.4	23.20	36.5	29.35	57.0	3.04	37
22	42.90	38.4	26.05	39.7	31.75	57.0	3.04	41
24	45.90	41.3	30.00	42.9	39.40	58.5	3.73	44

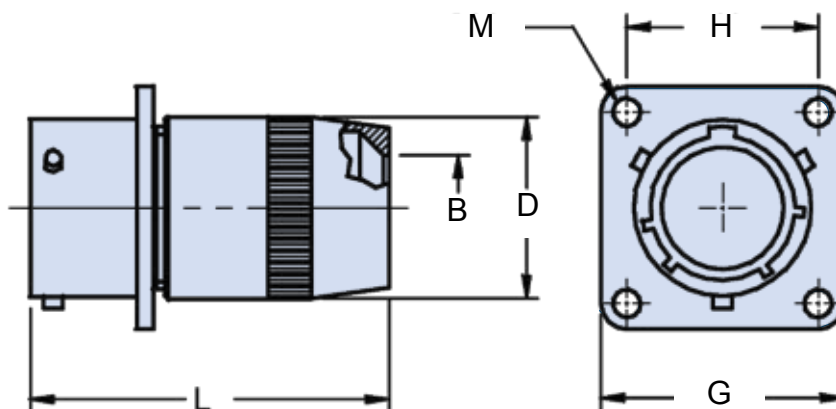
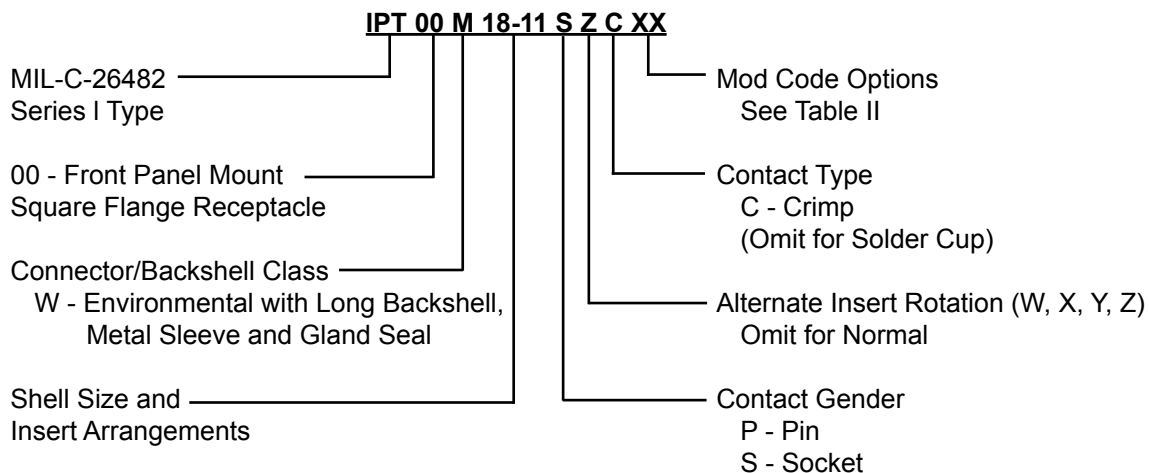
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 00 W **Front Panel Mount Square Flange Receptacle** **with Long Backshell, Metal Sleeve and Gland Seal**



APPLICATION NOTES

1. Front panel wall mount receptacle with long backshell, incorporated metal sleeve and gland seal. No cable clamp provided; through mounting holes.
2. Connector/Backshell Class "W" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 00 W
Front Panel Mount Square Flange Receptacle
with Long Backshell, Metal Sleeve and Gland Seal



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B min.	Max.	D Max.	G ±0.4	H ±0.1	L Max.	M ±0.12
8	4.25	5.85	13.90	20.6	15.10	43.30	3.04
10	5.20	7.90	17.15	23.8	18.25	43.30	3.04
12	8.60	11.20	20.60	26.2	20.60	46.90	3.04
14	10.55	13.70	23.90	28.6	23.00	51.80	3.04
16	14.00	15.65	27.10	31.0	24.60	57.30	3.04
18	15.25	17.10	30.30	33.3	27.00	63.15	3.04
20	16.10	19.00	33.60	36.5	29.35	74.20	3.04
22	17.00	21.50	36.80	39.7	31.75	78.40	3.04
24	18.80	22.70	40.00	42.9	39.40	84.10	3.73

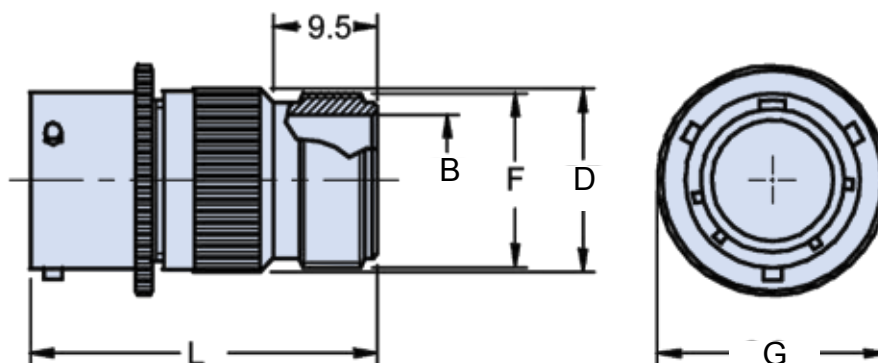
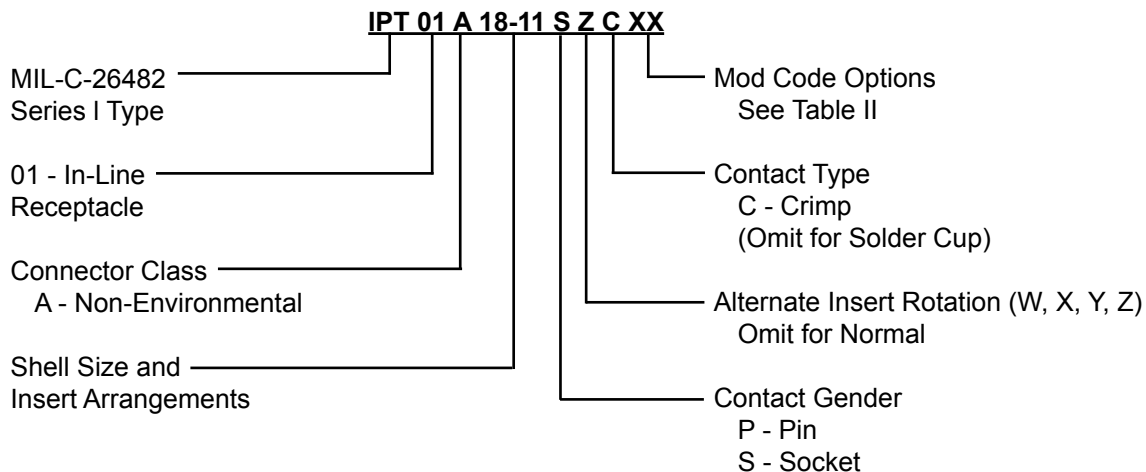
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 A **In-Line Receptacle Connector** **with General Duty Backshell**



APPLICATION NOTES

1. In-line receptacle with general duty backshell.
2. Connector Class "A" (non-environmental—no grommet supplied).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 A

In-Line Receptacle Connector with General Duty Backshell



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B min.	D Max.	F Thread in inches	G ±0.1	L Max.
8	7.55	15.00	.5000 - 28 UNEF	17.3	40.9
10	10.70	18.20	.6250 - 24 UNEF	21.8	40.9
12	13.85	21.20	.7500 - 20 UNEF	25.1	40.9
14	16.85	24.60	.8750 - 20 UNEF	28.6	40.9
16	20.00	27.60	1.0000 - 20 UNEF	30.6	40.9
18	22.30	30.90	1.1875 - 18 UNEF	33.2	40.9
20	25.75	33.80	1.1875 - 18 UNEF	36.5	45.0
22	28.80	37.10	1.4375 - 18 UNEF	39.6	45.0
24	32.00	40.25	1.4375 - 18 UNEF	43.1	46.0

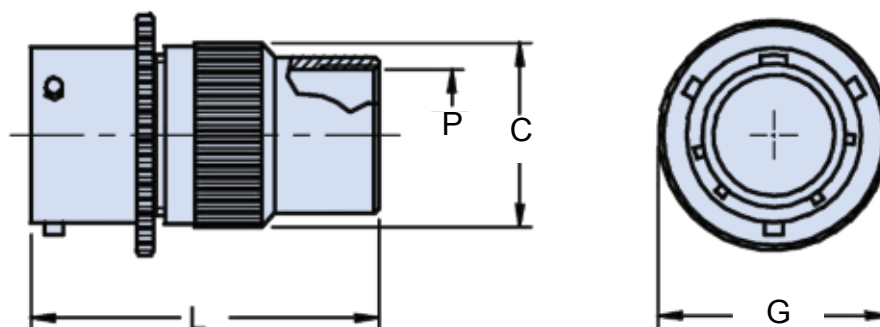
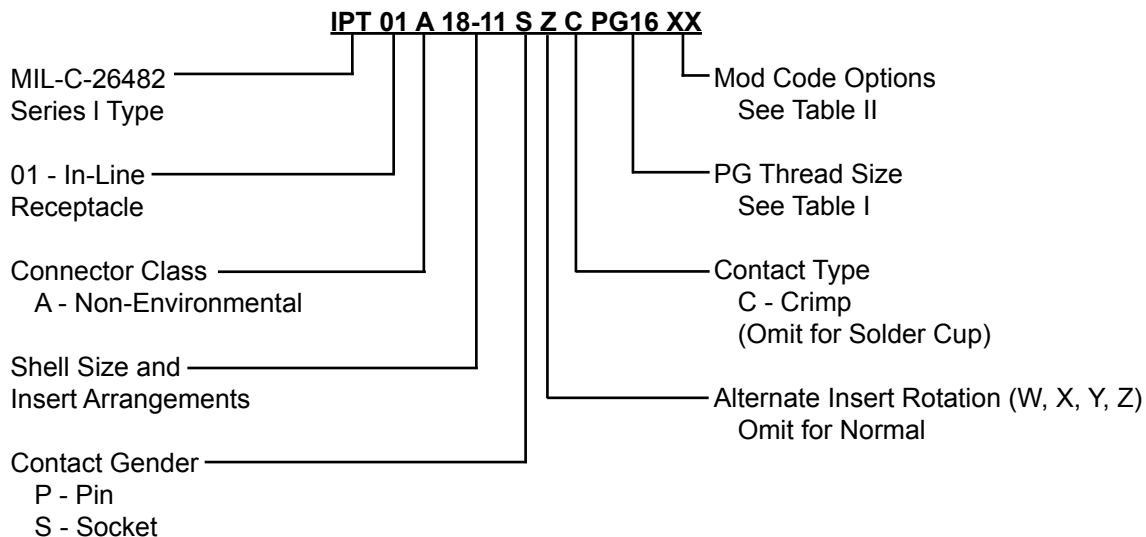
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 A...PG_ _ In-Line Receptacle Connector with Backshell for Attachment of PG Cable Gland



APPLICATION NOTES

1. In-line receptacle with backshell adapter threaded for use with PG cable glands (not included). Other types of PG adapters can be supplied in various sizes and angles upon request.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 A...PG _ _
In-Line Receptacle Connector
with Backshell for
Attachment of PG Cable Gland



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	C Max	L Max	PG Thread	G ±0.1
8	18.0	40	7 / 9	17.3
10	18.0	40	9	21.8
12	23.5	40	11	25.1
14	24.5	45	11 / 13.5 / 16	28.6
16	28.0	45	11 / 13.5 / 16	30.6
18	30.5	45	13.5 / 16	33.2
20	33.5	52	13.5 / 16	36.5
22	37.0	60	13.5 / 16 / 21	39.6
24	40.0	60	13.5 / 16 / 21	43.1

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 A...PH_ _ **In-Line Receptacle Connector** **with Backshell and Plastic PG Cable Gland**

IPT 01 A 18-11 S Z C PH16 XX

MIL-C-26482
Series I Type

01 - In-Line
Receptacle

Connector Class
A - Non-Environmental

Shell Size and
Insert Arrangements

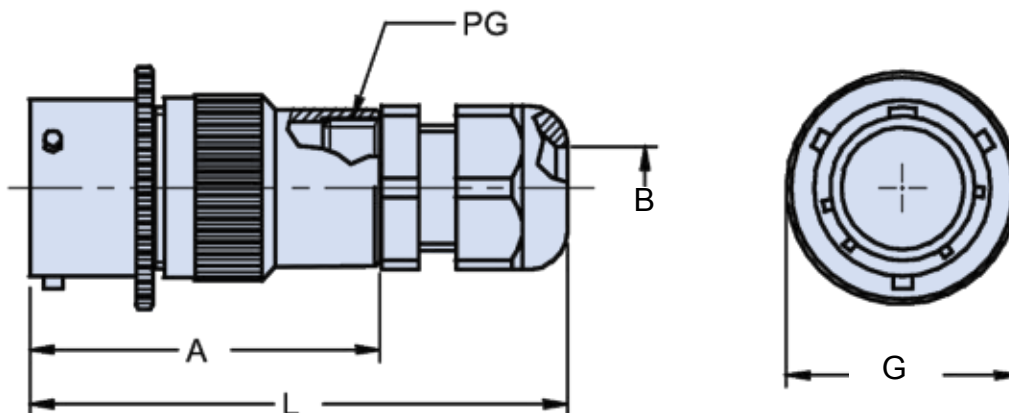
Contact Gender
P - Pin
S - Socket

Mod Code Options
See Table II

PH Thread Size
See Table I

Contact Type
C - Crimp
(Omit for Solder Cup)

Alternate Insert Rotation (W, X, Y, Z)
Omit for Normal



APPLICATION NOTES

1. In-line receptacle with backshell and plastic PG cable gland. Other types of PG adapters can be supplied in various sizes and angles upon request.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 A...PH_ _
In-Line Receptacle Connector
with Backshell and Plastic PG Cable Gland



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A Max	B min. - max.	PG Thread	L Max.	G ±0.1
8	40	3 - 6.5 / 4 - 8	7 / 9	65	17.3
10	40	4 - 8	9	65	21.8
12	40	5 - 10	11	65	25.1
14	45	5 - 10 / 6 - 12 / 9 - 14	11 / 13.5 / 16	75	28.6
16	45	5 - 10 / 6 - 12 / 9 - 14	11 / 13.5 / 16	75	30.6
18	45	6 - 12 / 9 - 14	13.5 / 16	75	33.2
20	52	6 - 12 / 9 - 14	13.5 / 16	82	36.5
22	60	6 - 12 / 9 - 14 / 13 - 18	13.5 / 16 / 21	95	39.6
24	60	6 - 12 / 9 - 14 / 13 - 18	13.5 / 16 / 21	95	43.1

TABLE II: MODIFICATION CODES

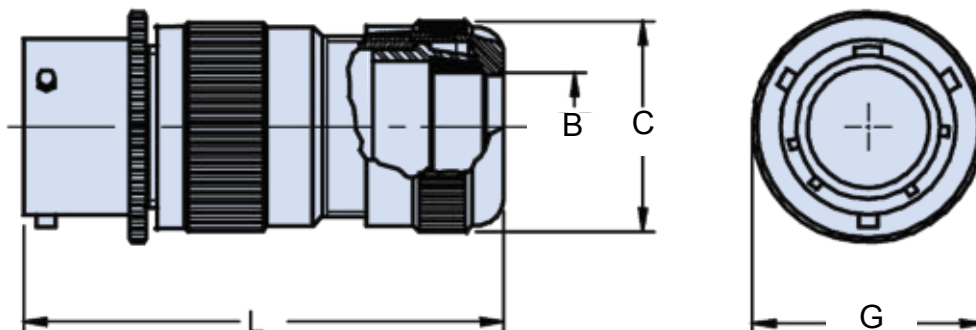
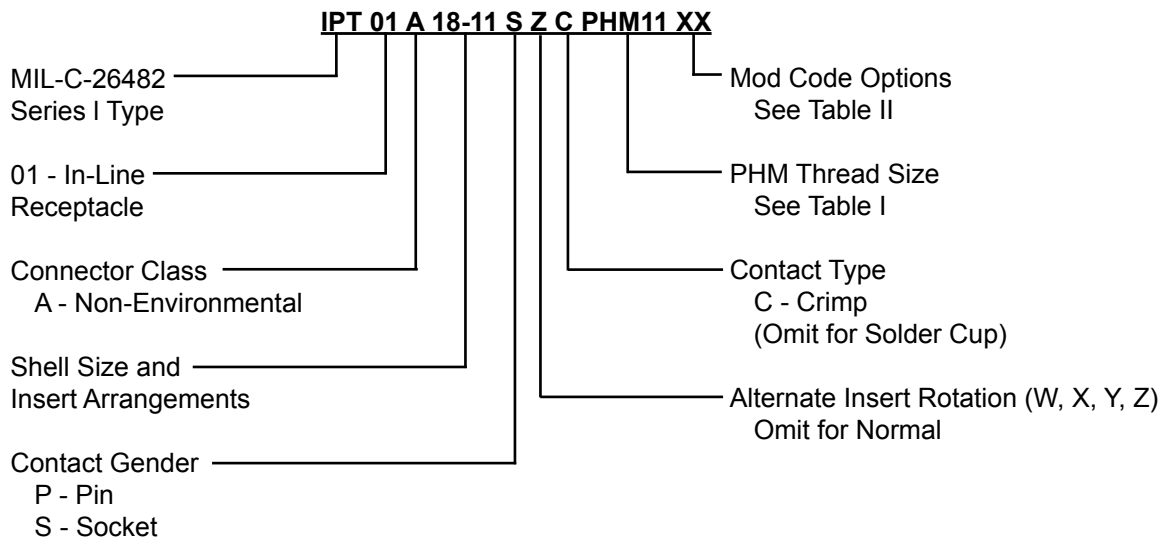
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 A...PHM_ _

In-Line Receptacle Connector with PHM Backshell and Sleeves to Accommodate Various Cable Sizes



APPLICATION NOTES

1. In-line receptacle with a PHM backshell that assures an excellent mechanical and waterproof seal to IP65 when used with correct neoprene sealing bushing. Rubber sleeves included to allow use of different diameter cables.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 A...PHM_ _
In-Line Receptacle Connector
with PHM Backshell
and Sleeves to Accommodate Various Cable Sizes



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	P.N. PHM	B min. - max.	C Max.	G ±0.1	L Max.
8	11	2 - 7	15	17.3	47
10	11	2 - 9	21	21.8	49
12	11	2 - 11	24	25.1	58
14	11	2 - 11	24	28.6	58
16	11	2 - 11	24	30.6	58
18	11 / 18	2 - 11 / 9 - 16.5	42	33.2	75
20	18	9 - 16.5	42	36.5	75
22	18	9 - 16.5	42	39.6	75
24	18 / 22 / 24	9 - 16.5 / 15 - 20 / 19 - 24	42	43.1	75

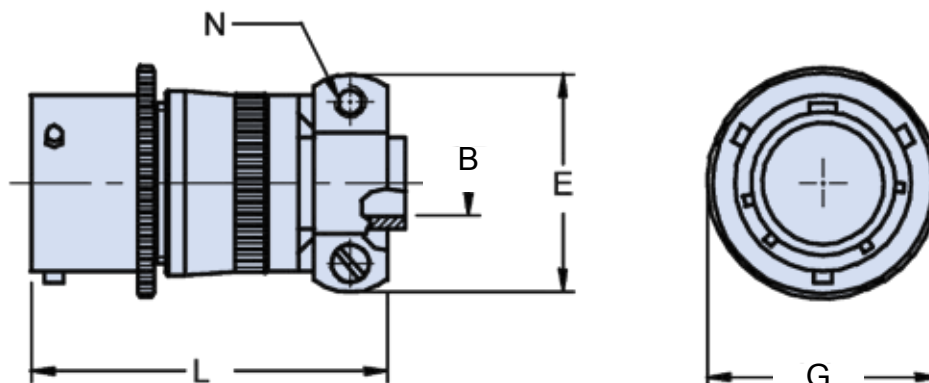
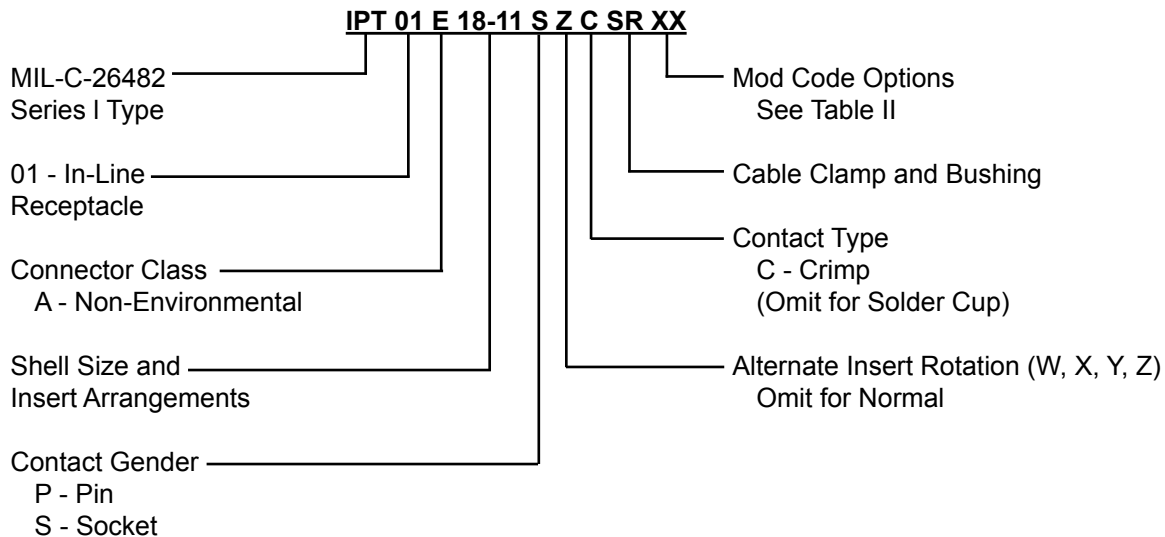
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 A...SR In-Line Receptacle Connector with Backshell, Cable Clamp and Bushing



APPLICATION NOTES

1. In-line receptacle with backshell, cable clamp and bushing for cable protection.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 A...SR
In-Line Receptacle Connector
with Backshell,
Cable Clamp and Bushing



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	E Max.	G ±0.1	L Max.	N Thread
8	3.2	20.60	17.3	45.1	6 - 32
10	4.8	22.20	21.8	45.1	6 - 32
12	7.9	25.40	25.1	45.1	6 - 32
14	9.5	28.60	28.6	45.1	6 - 32
16	12.7	30.20	30.6	48.4	6 - 32
18	15.9	36.50	33.2	48.4	8 - 32
20	15.9	36.50	36.5	54.8	8 - 32
22	19.0	43.65	39.6	54.8	8 - 32
24	20.3	43.65	43.1	56.4	8 - 32

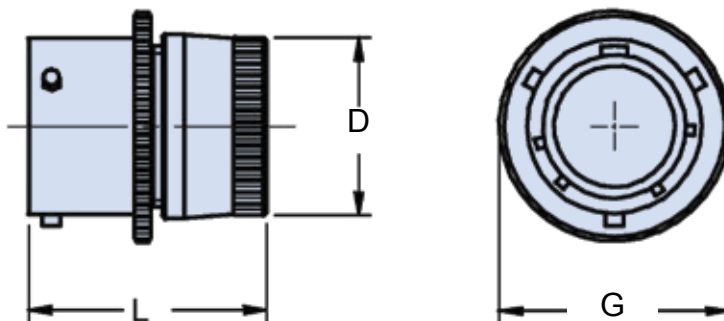
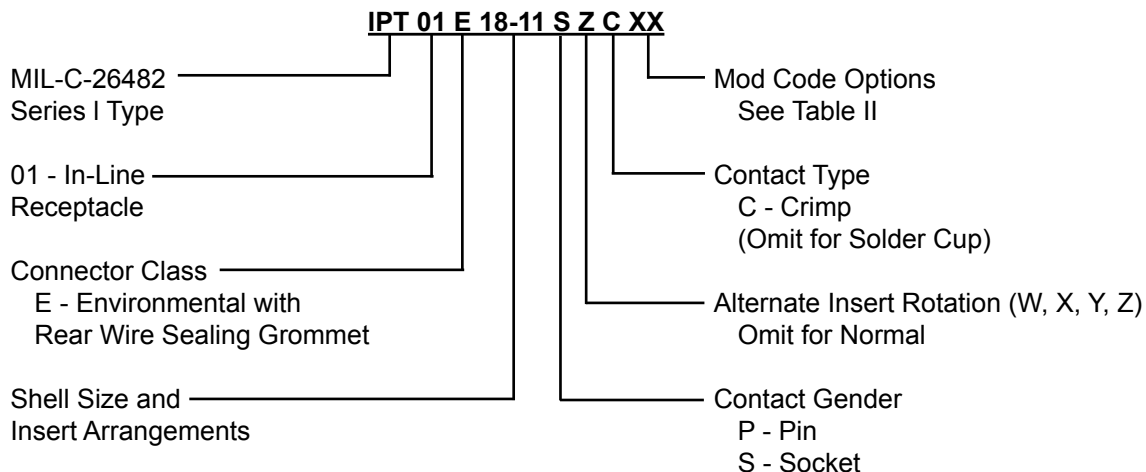
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 E **In-Line Receptacle Connector** **with General Duty Backshell**



APPLICATION NOTES

1. Connector Class "E" (environmental)—Wire sealing grommet and general duty backshell supplied.
2. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
3. Standard contact material consists of copper alloy with gold plating over nickel.
4. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
5. Standard insert is high insulation synthetic rubber.

IPT 01 E

In-Line Receptacle Connector with General Duty Backshell



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	D Max.	G ±0.1	L Max.
8	14.20	17.3	32.15
10	17.40	21.8	32.15
12	20.65	25.1	32.15
14	23.60	28.6	32.15
16	26.85	30.6	32.15
18	29.85	33.2	32.15
20	33.00	36.5	38.50
22	36.30	39.6	38.50
24	39.50	43.1	40.10

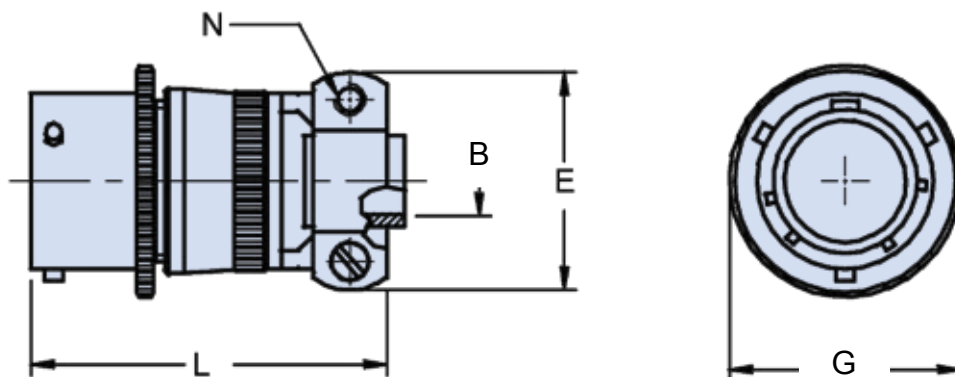
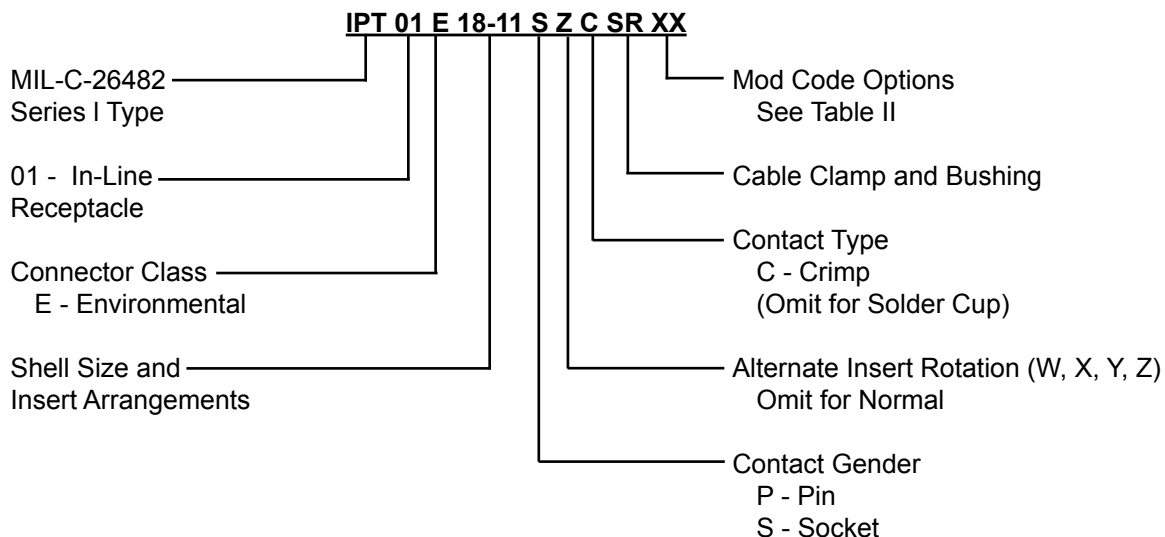
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 E...SR **In-Line Receptacle Connector** **with Backshell, Cable Clamp and Bushing**



APPLICATION NOTES

1. In-line receptacle with sealing grommet, cable clamp and bushing for cable protection.
2. Connector Class "E" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 E...SR
In-Line Receptacle Connector
with Backshell, Cable Clamp and Bushing



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	E Max.	G ±0.1	L Max.	N Thread
8	3.2	20.60	17.3	45.1	6 - 32
10	4.8	22.20	21.8	45.1	6 - 32
12	7.9	25.40	25.1	45.1	6 - 32
14	9.5	28.60	28.6	45.1	6 - 32
16	12.7	30.20	30.6	48.4	6 - 32
18	15.9	36.50	33.2	48.4	8 - 32
20	15.9	36.50	36.5	54.8	8 - 32
22	19.0	43.65	39.6	54.8	8 - 32
24	20.3	43.65	43.1	56.4	8 - 32

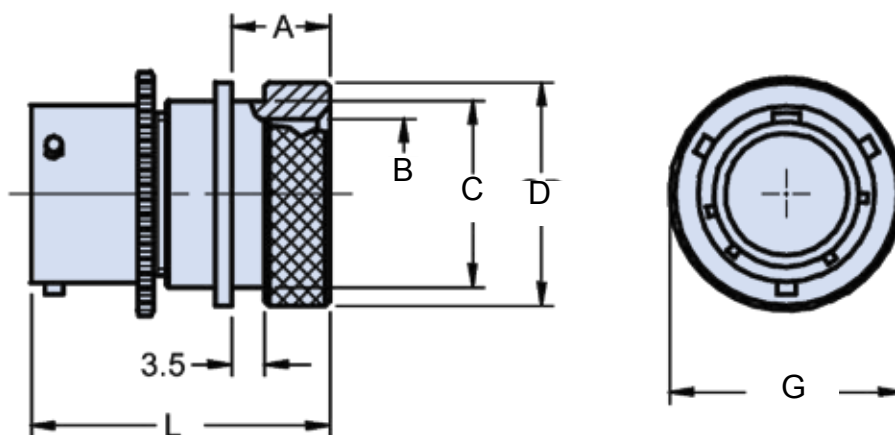
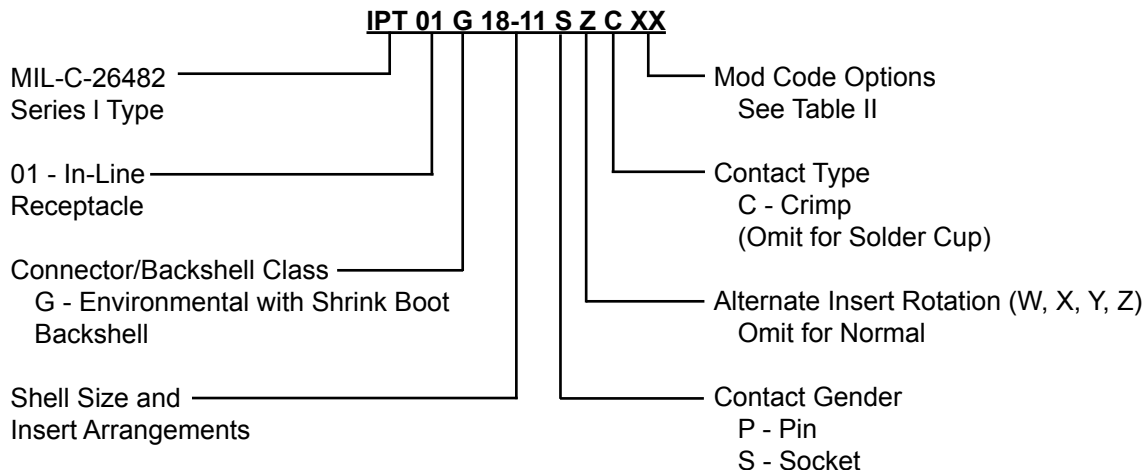
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 G **In-Line Receptacle Connector** **with Shrink Boot Backshell**



APPLICATION NOTES

1. In-line receptacle with sealing grommet and backshell for heat shrink sleeves.
2. Connector/Backshell Class "G" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 G

In-Line Receptacle Connector with Shrink Boot Backshell



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A ±0.1	ØB +0.1 -0	ØC +0 -0.1	ØD +0 -0.3	L Max.	ØG ±0.1
8	12.2	8.20	13.0	15.5	39	17.3
10	12.2	11.40	15.8	18.3	39	21.8
12	12.2	14.55	21.0	23.6	39	25.1
14	12.2	17.50	21.8	24.4	39	28.6
16	14.5	20.60	25.9	29.7	42	30.6
18	14.5	23.15	28.2	31.9	42	33.2
20	15.8	26.50	32.2	36.0	47	36.5
22	15.8	29.60	34.5	38.4	47	39.6
24	14.9	32.80	37.6	41.5	47	43.1

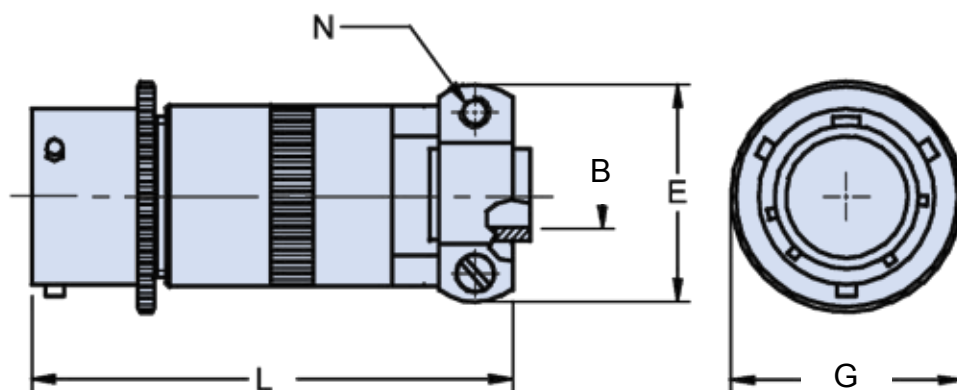
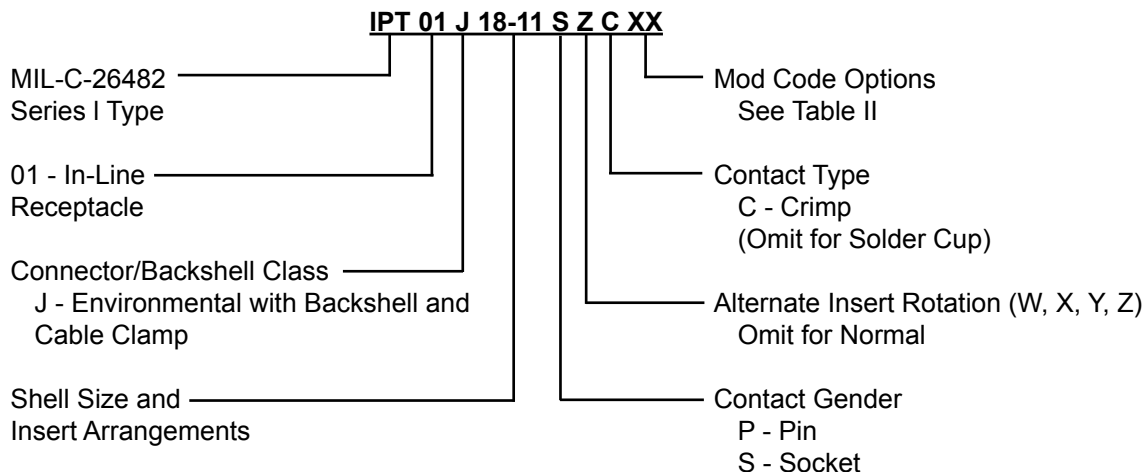
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 J **In-Line Receptacle Connector** **with Backshell, Cable Clamp and Sleeve**



APPLICATION NOTES

1. In-line receptacle with backshell, incorporated metal sleeve and cable clamp.
2. Connector/Backshell Class "J" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 J
In-Line Receptacle Connector
with Backshell, Cable Clamp and Sleeve



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	E Max.	G ±0.1	L Max.	N Thread
8	3.2	20.60	17.3	55.45	6 - 32
10	4.8	22.20	21.8	55.45	6 - 32
12	7.9	25.40	25.1	59.05	6 - 32
14	9.5	28.60	28.6	63.95	6 - 32
16	12.7	30.20	30.6	72.80	6 - 32
18	15.9	36.50	33.2	78.65	8 - 32
20	15.9	36.50	36.5	89.70	8 - 32
22	19.0	43.65	39.6	93.90	8 - 32
24	20.3	43.65	43.1	100.00	8 - 32

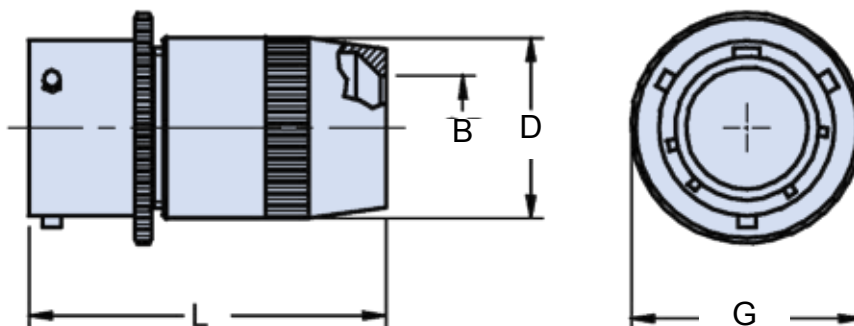
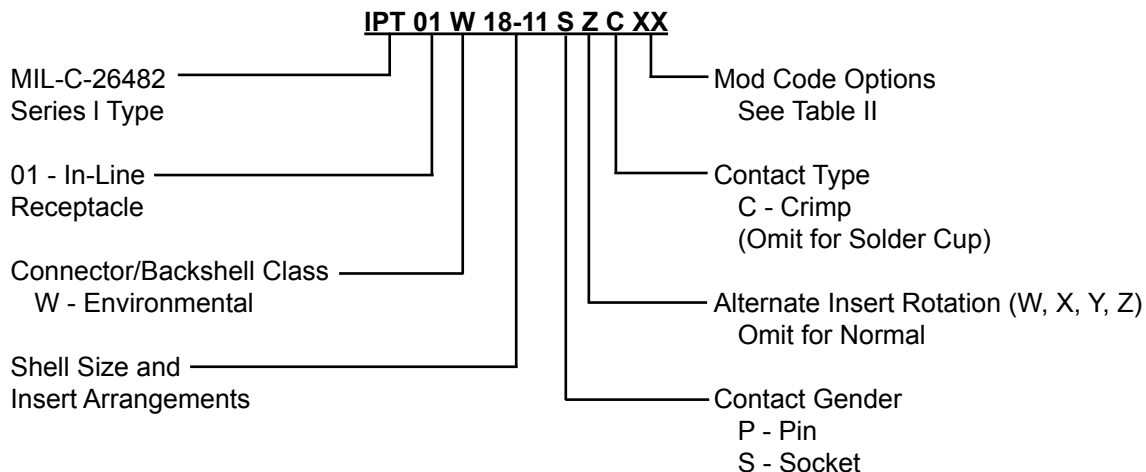
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 W **In-Line Receptacle Connector** **with Long Backshell, Metal Sleeve and Gland Seal**



APPLICATION NOTES

1. In-line receptacle with long backshell, incorporated metal sleeve and gland seal. No cable clamp provided.
2. Connector/Backshell Class "W" (environmental)—No grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 W
In-Line Receptacle Connector
with Long Backshell, Metal Sleeve and Gland Seal



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B min.	Max.	D Max.	G ±0.1	L Max.
8	4.25	5.85	13.90	17.3	43.30
10	5.20	7.90	17.15	21.8	43.30
12	8.60	11.20	20.60	25.1	46.90
14	10.55	13.70	23.90	28.6	51.80
16	14.00	15.65	27.10	30.6	57.30
18	15.25	17.10	30.30	33.2	63.15
20	16.10	19.00	33.60	36.5	74.20
22	17.00	21.50	36.80	39.6	78.40
24	18.80	22.70	40.00	43.1	84.10

TABLE II: MODIFICATION CODES

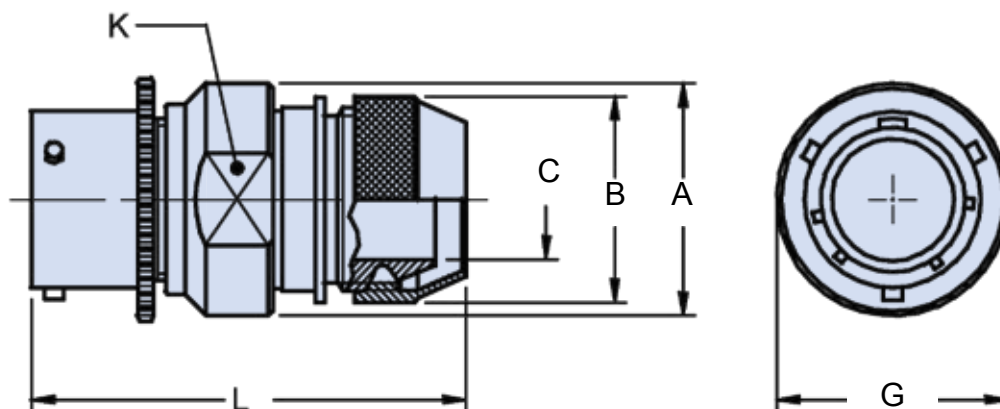
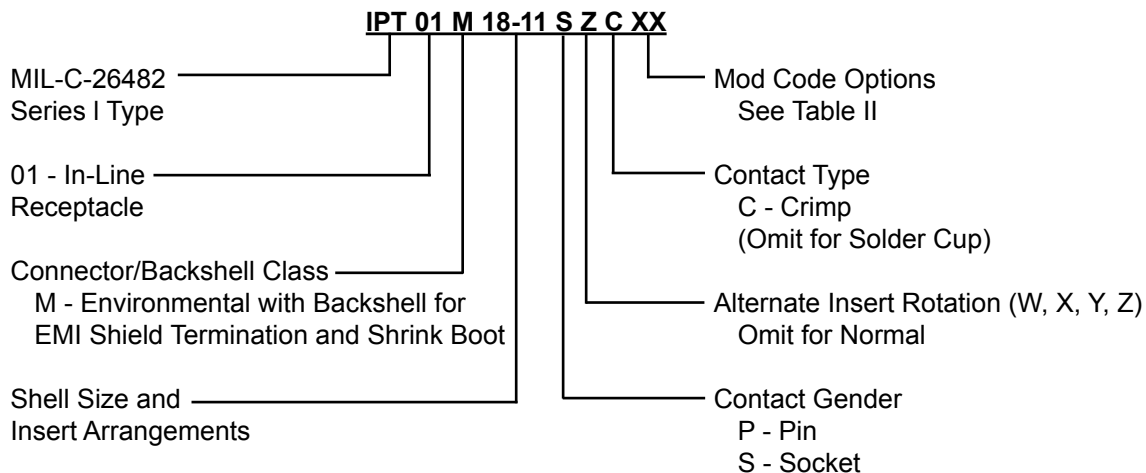
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 01 M

In-Line Receptacle Connector with Backshell for EMI Shield Termination and Shrink Boot



APPLICATION NOTES

1. In-line receptacle with backshell for terminating EMI shielding and attaching heat shrink boots.
2. Connector/Backshell Class "M" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 01 M
In-Line Receptacle Connector
with Backshell for
EMI Shield Termination and Shrink Boot



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A Max.	B Max.	C min.	K Key	L Max	G ±0.1
8	19.80	16.3	6.70	18	52.0	17.3
10	22.50	18.4	9.30	21	52.0	21.8
12	26.90	22.4	12.25	24	52.0	25.1
14	29.90	25.4	15.40	28	53.0	28.6
16	32.85	28.4	18.50	31	53.0	30.6
18	35.80	32.4	20.20	34	53.0	33.0
20	39.60	34.4	23.20	37	57.0	36.5
22	42.90	38.4	26.05	41	57.0	39.6
24	45.90	41.3	30.00	44	58.5	43.1

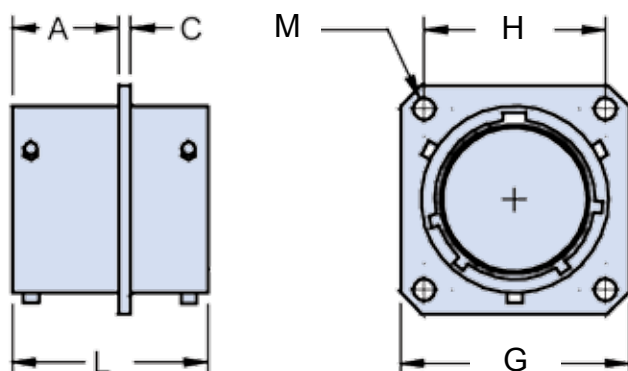
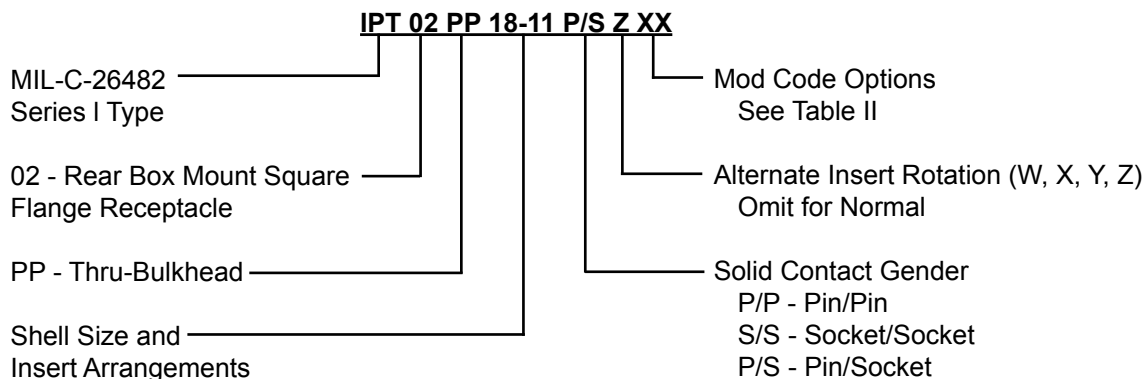
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 02 PP **Rear Box Mount Square Flange Receptacle** **Through Bulkhead**



APPLICATION NOTES

1. Through bulkhead receptacle with solid feedthrough contacts. Rear box mount square flange version.
2. Through mounting holes.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.

IPT 02 PP

Rear Box Mount Square Flange Receptacle Through Bulkhead



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A +0.2 -0	C ±0.1	L +0.2 -0	G ±0.4	H ±0.1	M ±0.12
8	14.5	1.6	26.5	20.6	15.10	3.04
10	14.5	1.6	26.5	23.8	18.25	3.04
12	14.5	1.6	26.5	26.2	20.60	3.04
14	14.5	1.6	26.5	28.6	23.00	3.04
16	14.5	1.6	26.5	31.0	24.60	3.04
18	14.5	1.6	26.5	33.3	27.00	3.04
20	17.8	2.5	33.5	36.5	29.35	3.04
22	17.8	2.5	33.5	39.7	31.75	3.04
24	17.8	2.5	33.5	42.9	34.90	3.73

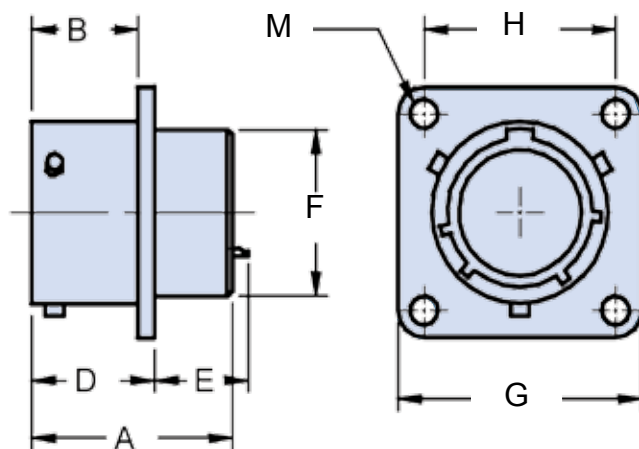
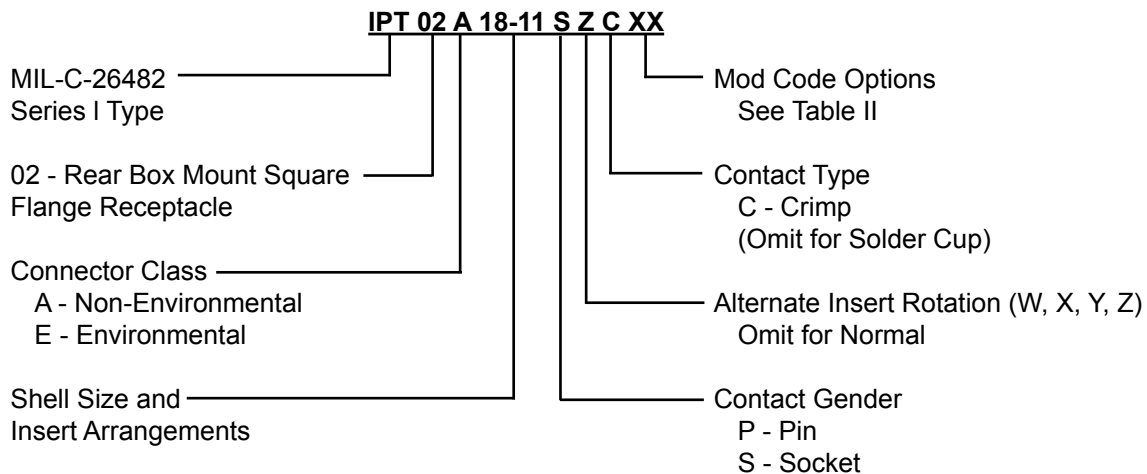
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	NXXX - Custom Designed Connector
F7 - Black Zn-Co Plating (RoHs)	
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 02 A and IPT 02 E Front Box Mount Square Flange Receptacle



APPLICATION NOTES

1. Box mount receptacle with through mounting holes; no rear accessory threads.
2. Connector Class "A" (non-environmental).
Connector Class "E" (environmental)—Wire sealing grommet and insert seal supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.

IPT 02 A and IPT 02 E Front Box Mount Square Flange Receptacle



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A Max.	B +0.25 -0	D +0.6 -0.25	E Max.	F Max.	G ±0.4	H ±0.1	M ±0.12
8	21.0	10.95	12.5	11.8	11.40	20.6	15.10	3.04
10	21.0	10.95	12.5	11.8	14.55	23.8	18.25	3.04
12	21.0	10.95	12.5	11.8	17.75	26.2	20.60	3.04
14	21.0	10.95	12.5	11.8	20.90	28.6	23.00	3.04
16	21.0	10.95	12.5	11.8	24.10	31.0	24.60	3.04
18	21.0	10.95	12.5	11.8	27.25	33.3	27.00	3.04
20	27.4	14.10	16.5	13.4	30.45	36.5	29.35	3.04
22	27.4	14.10	16.5	13.4	33.60	39.7	31.75	3.04
24	28.2	15.00	17.3	12.5	36.80	42.9	34.90	3.73

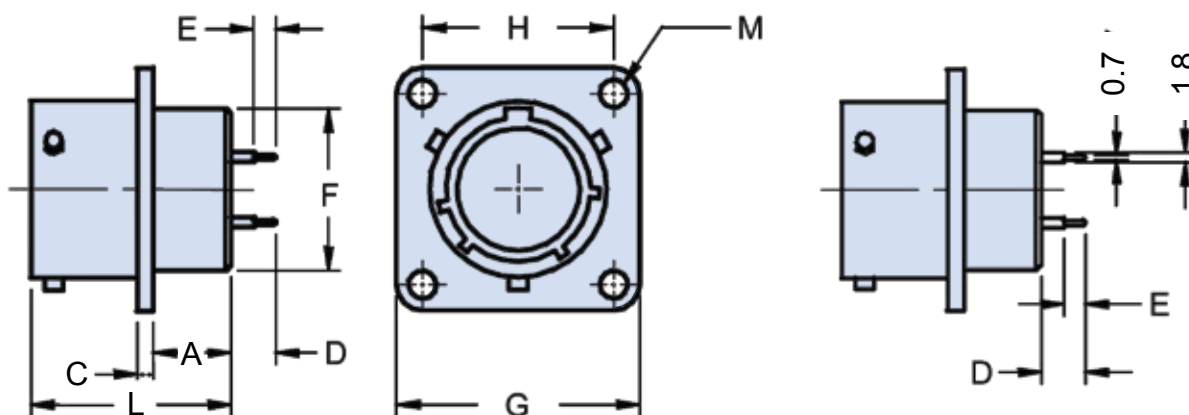
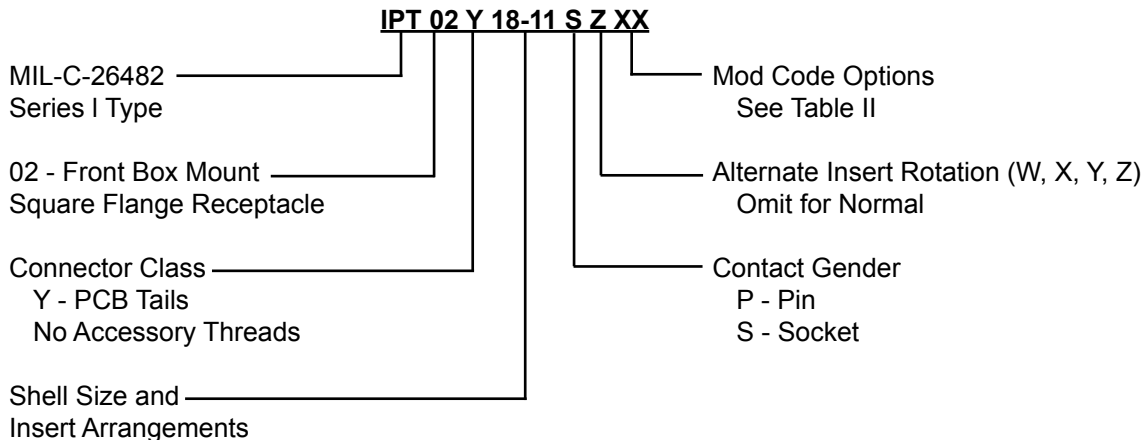
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	NXXX - Custom Designed Connector
F7 - Black Zn-Co Plating (RoHs)	
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 02 Y **Rear Box Mount Square Flange Receptacle** **with Printed Circuit Board Terminations**



APPLICATION NOTES

1. Rear box mount square flange receptacle with PCB tails and no accessory threads. Printed circuit board terminations. Contact factory for custom tail lengths.
2. Connector Class "Y" — Receptacle with PCB tails.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.

IPT 02 Y

Rear Box Mount Square Flange Receptacle with Printed Circuit Board Terminations



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A +0 -0.2	C ±0.1	F Max.	G ±0.4	H ±0.1	L Max.	M ±0.12
8	6.2	1.6	11.40	20.6	15.10	19.5	3.04
10	6.2	1.6	14.55	23.8	18.25	19.5	3.04
12	6.2	1.6	17.75	26.2	20.60	19.5	3.04
14	6.2	1.6	20.90	28.6	23.00	19.5	3.04
16	6.2	1.6	24.10	31.0	24.60	19.5	3.04
18	6.2	1.6	27.25	33.3	27.00	19.5	3.04
20	7.5	2.4	30.45	36.5	29.35	24.5	3.04
22	7.5	2.4	33.60	39.7	31.75	24.5	3.04
24	7.5	2.4	36.80	42.9	34.90	25.5	3.73

TABLE I: DIMENSIONS (Continued from Above)

Shell Size	Y		Y1		Y2		YS		YL		YM		YK	
	D ±0.4	E ±0.2	D ±0.4	E ±0.2	D ±0.4	E ±0.2	D ±0.4	E ±0.2	D ±0.4	E ±0.2	D ±0.4	E ±0.2	D ±0.4	E ±0.2
8	8.0	3.6	7.4	3.2	7.8	4.8	5.8	3.2	10.9	6.0	12.4	7.2	8.9	7.1
10	8.0	3.6	7.4	3.2	7.8	4.8	5.8	3.2	10.9	6.0	12.4	7.2	8.9	7.1
12	8.0	3.6	7.4	3.2	7.8	4.8	5.8	3.2	10.9	6.0	12.4	7.2	8.9	7.1
14	8.0	3.6	7.4	3.2	7.8	4.8	5.8	3.2	10.9	6.0	12.4	7.2	8.9	7.1
16	8.0	3.6	7.4	3.2	7.8	4.8	5.8	3.2	10.9	6.0	12.4	7.2	8.9	7.1
18	8.0	3.6	7.4	3.2	7.8	4.8	5.8	3.2	10.9	6.0	12.4	7.2	8.9	7.1
20	7.8	3.6	7.6	3.2	-	-	7.5	3.2	9.3	6.0	-	-	8.1	7.1
22	7.8	3.6	7.6	3.2	-	-	7.5	3.2	9.3	6.0	-	-	8.1	7.1
24	6.7	3.6	6.5	3.2	-	-	6.4	3.2	8.2	6.0	-	-	8.1	7.1

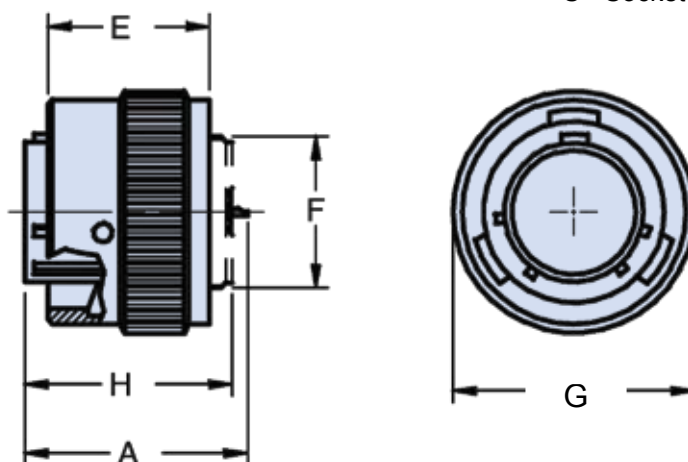
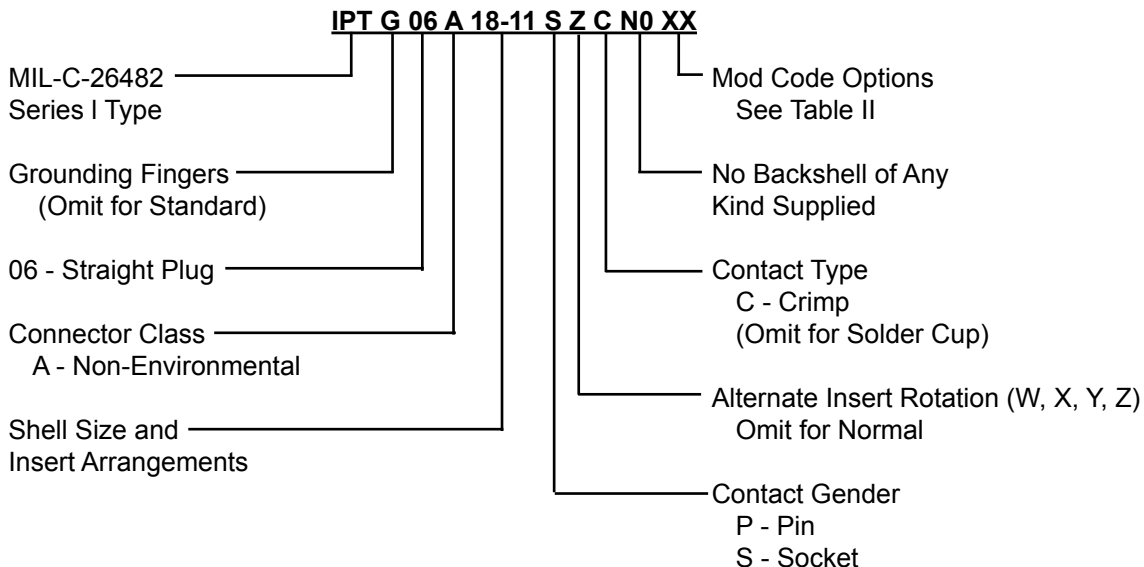
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	NXXX - Custom Designed Connector
F7 - Black Zn-Co Plating (RoHs)	-
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 A...N0 Straight Plug Connector with Accessory Threads



APPLICATION NOTES

1. Straight plug without backshell.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 A...N0 Straight Plug Connector with Accessory Threads



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A Max.	H ±0.2	F Thread in inches	ØG Max.	E ±0.2
8	25.4	21.4	.4375 - 28 UNEF	19.05	18
10	25.4	21.4	.5625 - 24 UNEF	21.80	18
12	25.4	21.4	.6875 - 24 UNEF	26.20	18
14	25.4	21.4	.8125 - 20 UNEF	29.40	18
16	25.4	21.4	.9375 - 20 UNEF	32.55	18
18	25.4	21.4	1.0625 - 18 UNEF	35.35	18
20	27.8	25.4	1.1875 - 18 UNEF	38.90	19
22	27.8	25.4	1.3125 - 18 UNEF	42.10	19
24	27.8	27.0	1.4375 - 18 UNEF	45.10	20

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

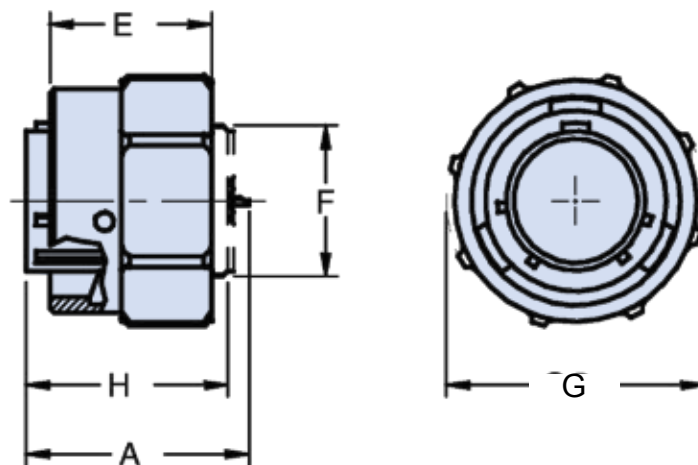
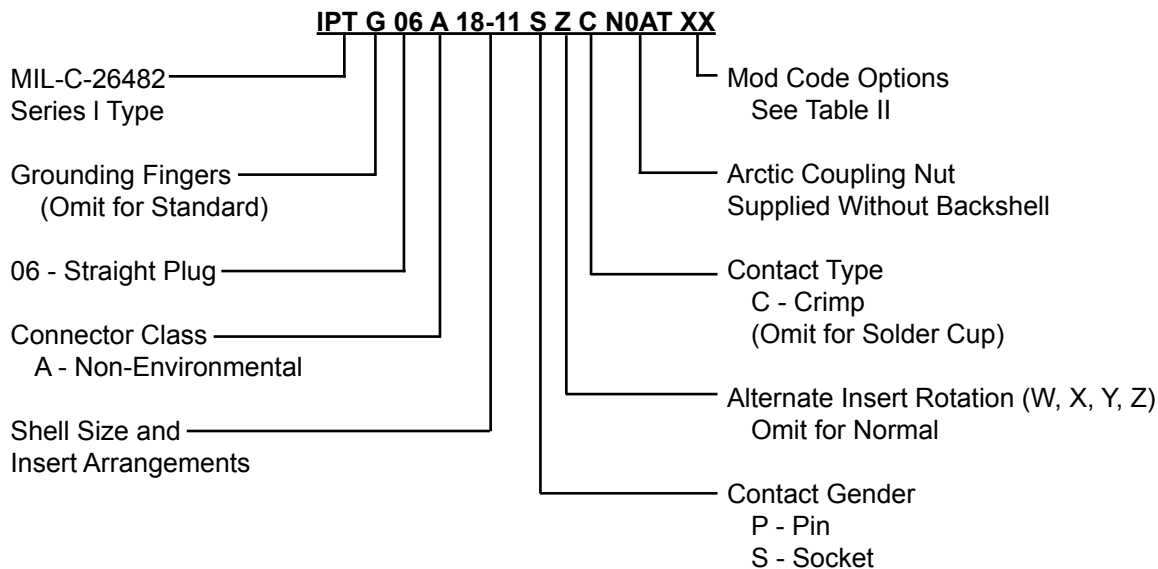
STANDARD FINISHES (For QQ-A-591 Aluminum Shells)

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 A...N0 AT

Straight Plug Connector

with Accessory Threads and Arctic Coupling Nut



APPLICATION NOTES

1. Straight plug with Arctic coupling nut (IAW BS9522 F0017) and no backshell.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 A...N0 AT
Straight Plug Connector
 with Accessory Threads and Arctic Coupling Nut



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	A Max.	H ±0.2	F Thread in inches	ØG Max.	E ±0.2
8	25.4	21.4	.4375 - 28 UNEF	22.5	18
10	25.4	21.4	.5625 - 24 UNEF	24.8	18
12	25.4	21.4	.6875 - 24 UNEF	30.2	18
14	25.4	21.4	.8125 - 20 UNEF	33.6	18
16	25.4	21.4	.9375 - 20 UNEF	37.3	18
18	25.4	21.4	1.0625 - 18 UNEF	39.7	18
20	27.8	25.4	1.1875 - 18 UNEF	43.3	19
22	27.8	25.4	1.3125 - 18 UNEF	47.6	19
24	27.8	27.0	1.4375 - 18 UNEF	49.7	20

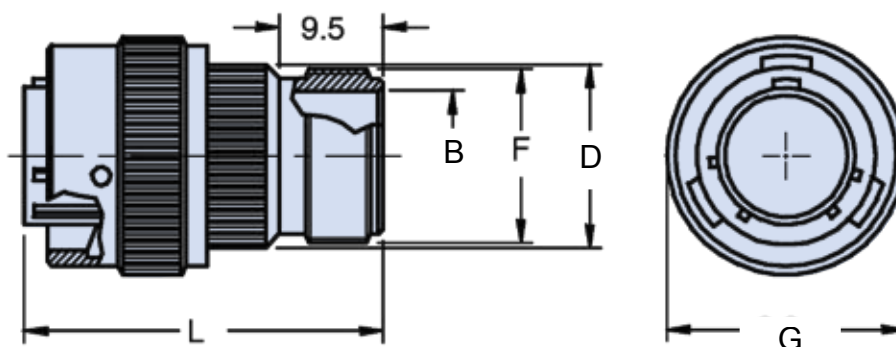
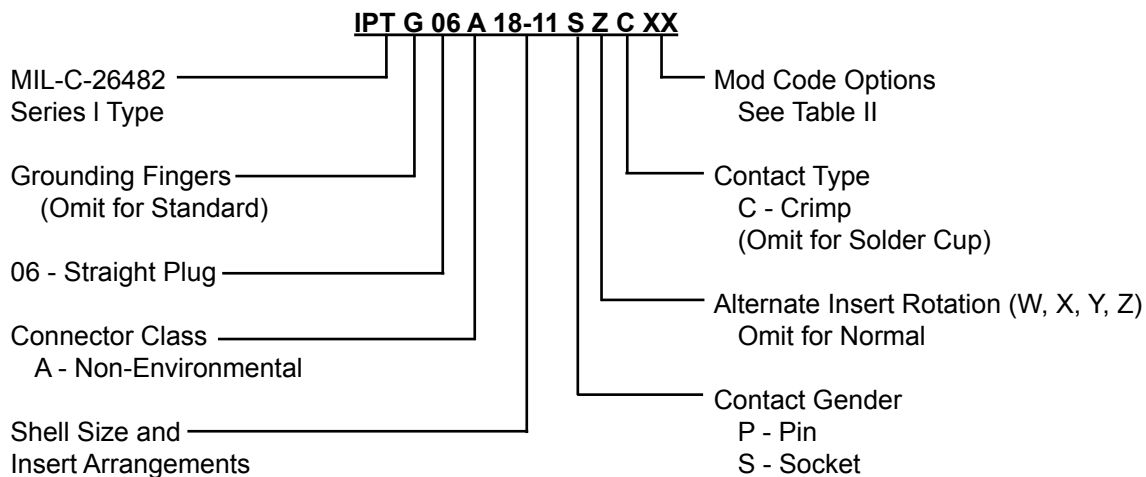
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 A Straight Plug Connector with Backshell to Accommodate MS3057 Cable Clamp (Not Included)



APPLICATION NOTES

1. Straight plug with backshell for attachment of cable clamp MS3057-A/B/C (not included).
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 A
Straight Plug Connector
with Backshell to Accommodate
MS3057 Cable Clamp (Not Included)



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B min.	D Max.	F Thread in inches	G Max.	L Max.
8	7.55	15.00	.5000 - 28 UNEF	19.05	40.90
10	10.70	18.20	.6250 - 24 UNEF	21.80	40.90
12	13.85	21.20	.7500 - 20 UNEF	26.20	40.90
14	16.85	24.60	.8750 - 20 UNEF	29.40	40.90
16	20.00	27.60	1.0000 - 20 UNEF	32.55	40.90
18	22.30	30.90	1.1875 - 18 UNEF	35.35	40.90
20	25.75	33.80	1.1875 - 18 UNEF	38.90	42.10
22	28.80	37.10	1.4375 - 18 UNEF	42.10	42.10
24	32.00	40.25	1.4375 - 18 UNEF	45.10	43.45

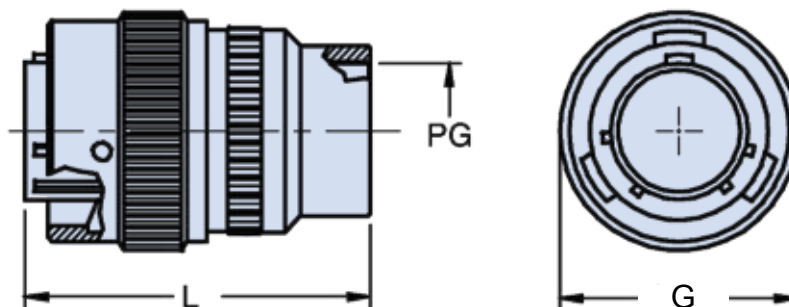
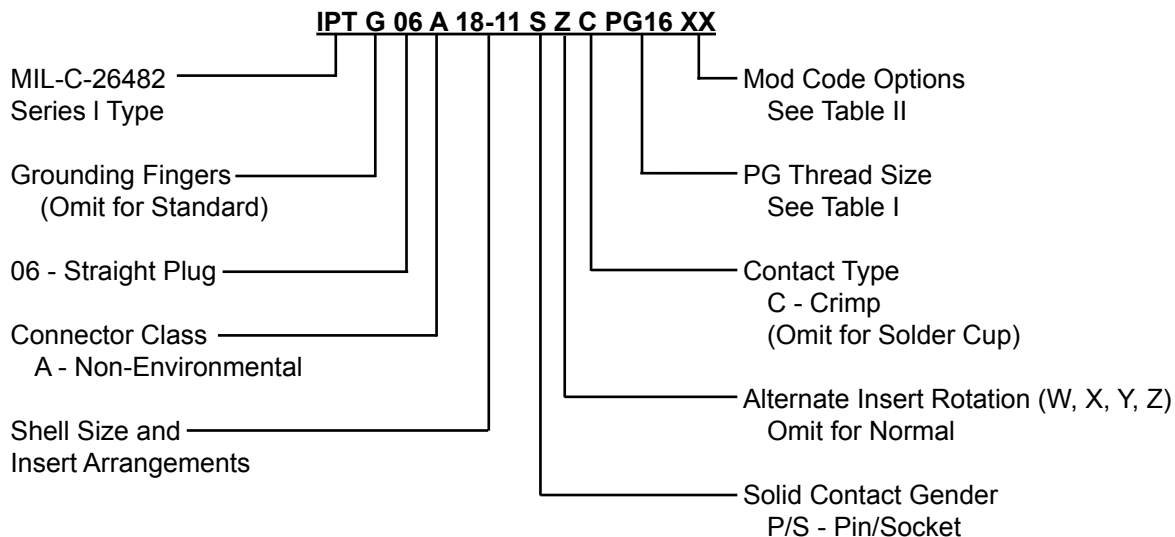
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 A...PG_ _ Straight Plug Connector with Backshell for Use with PG Glands (Not Included)



APPLICATION NOTES

1. Straight plug with backshell for use with PG glands (not included). Other PG sizes and types available upon request.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 A...PG__
Straight Plug Connector
 with Backshell for Use with PG Glands (Not Included)



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	L Max	PG thread	G Max.
8	40	7 / 9	19.05
10	40	9	21.80
12	40	11	26.20
14	45	11 / 13.5 / 16	29.40
16	45	11 / 13.5 / 16	32.55
18	45	13.5 / 16	35.35
20	52	13.5 / 16	38.90
22	60	13.5 / 16 / 21	42.10
24	60	13.5 / 16 / 21	45.10

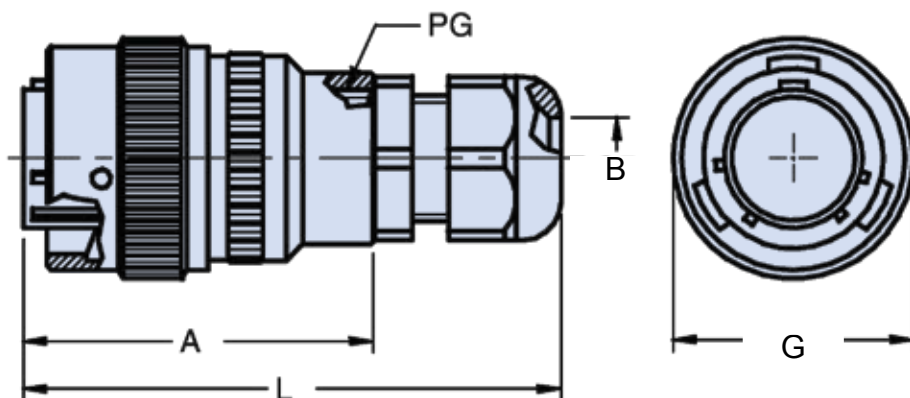
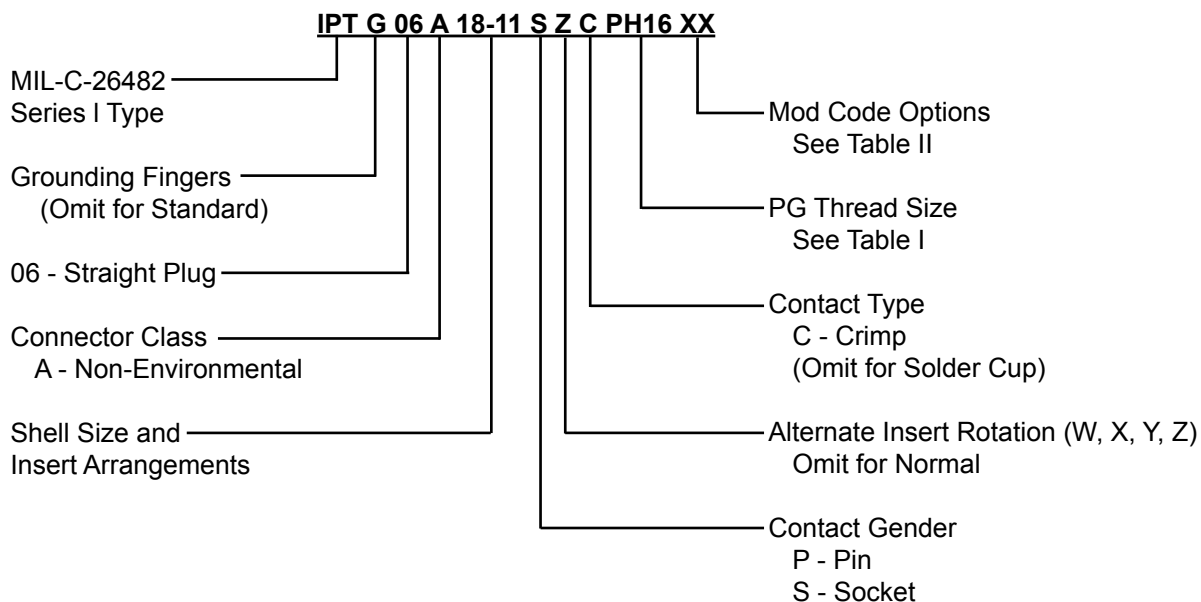
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 A...PH_ Straight Plug Connector with Backshell and PG Cable Gland



APPLICATION NOTES

1. Straight plug with backshell and plastic PG cable gland. Other PG sizes and types available upon request.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 A...PH _ _
Straight Plug Connector
with Backshell and PG Cable Gland



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A Max	B min. - max.	PG thread	L Max.	G Max
8	40	3 - 6.5 / 4 - 8	7 / 9	65	19.05
10	40	4 - 8	9	65	21.80
12	40	5 - 10	11	65	26.20
14	45	5 - 10 / 6 - 12 / 9 - 14	11 / 13.5 / 16	75	29.40
16	45	5 - 10 / 6 - 12 / 9 - 14	11 / 13.5 / 16	75	32.55
18	45	6 - 12 / 9 - 14	13.5 / 16	75	35.35
20	52	6 - 12 / 9 - 14	13.5 / 16	82	38.90
22	60	6 - 12 / 9 - 14 / 13 - 18	13.5 / 16 / 21	95	42.10
24	60	6 - 12 / 9 - 14 / 13 - 18	13.5 / 16 / 21	95	45.10

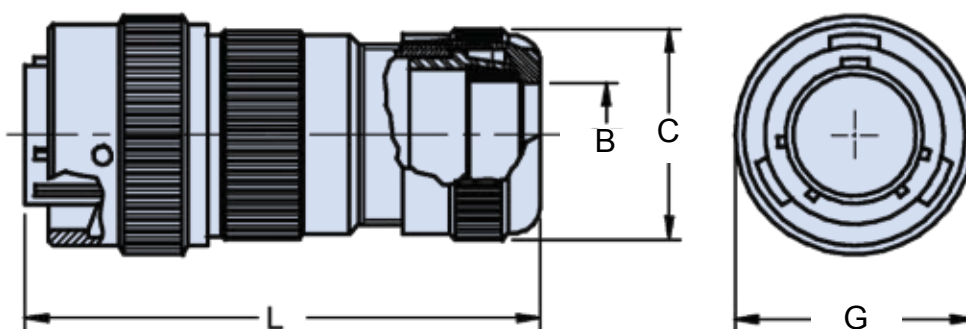
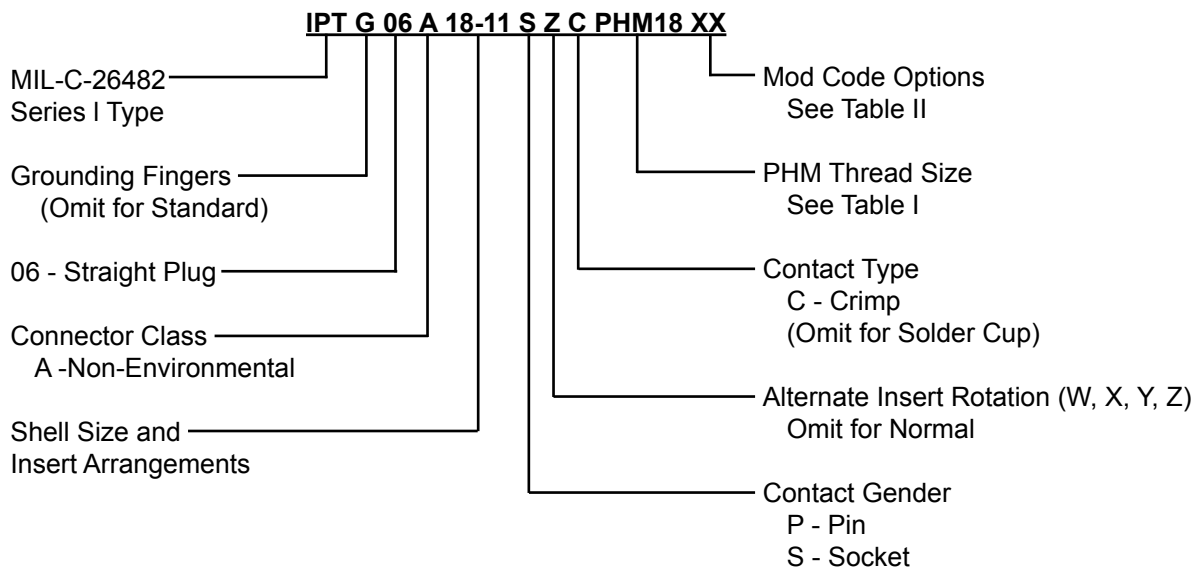
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 A...PHM_ _ Straight Plug Connector with PHM Backshell and Sleeves to Accommodate Various Cable Sizes



APPLICATION NOTES

1. Straight plug with PHM backshell includes rubber sleeves to allow use of different diameter cables.
2. Connector Class "A" (non-environmental)—no grommet supplied. PHM connector accessory provides environmental sealing to IP65.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 A...PHM_ _
Straight Plug Connector
with PHM Backshell
and Sleeves to Accommodate Various Cable Sizes



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	P.N. PHM	B min. - Max.	C Max.	G Max.	L Max.
8	7	2 - 7	15	19.05	47
10	9	2 - 9	21	21.80	49
12	11	2 - 11	24	26.20	58
14	11	2 - 11	24	29.40	58
16	11	2 - 11	24	32.55	58
18	11 / 18	2 - 11 / 9 - 16.5	42	35.35	75
20	18	9 - 16.5	42	38.90	75
22	18	9 - 16.5	42	42.10	75
24	18 / 22 / 24	9 - 16.5 / 15 - 20 / 19 - 24	42	45.10	75

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good



IPT 06 A...PHM_ _EMI67 Straight Plug Connector with Backshell for EMI Shield Termination

IPT G 06 A 18-11 S Z C PHM18EMI67 XX

MIL-C-26482
Bayonet

Grounding Finger
(Omit for Standard)

06 - Straight Plug

Connector Class
A - Non-Environmental

Shell Size and
Insert Arrangement

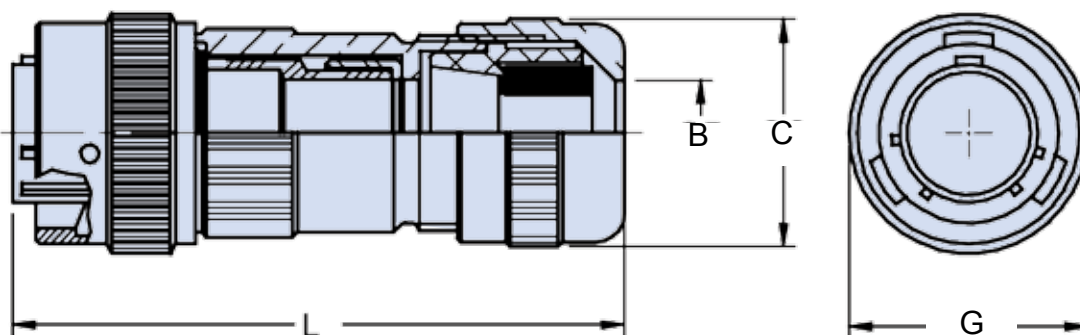
Mod Code Options
See Table II

PHM Thread Size
See Table I

Contact Type
C - Crimp
(Omit for Solder Cup)

Alternate Insert Rotation
(Omit for Normal)

Contact Gender
P - Pin
S - Socket



APPLICATION NOTES

1. Straight plug and backshell with PHM cable clamp suitable for shielded cables. Rubber sleeves included to allow use of different diameter shielded cables.
2. Connector Class "A" (environmental)—no grommet supplied. Note PHM connector accessory provides environmental sealing to IP67.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 A...PHM__EMI67
Straight Plug Connector
 with Backshell for EMI Shield Termination



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	P.N. PHM	B min. - max.	D Max.	G Max	L Max.
8	7	2 - 7	15.0	19.05	75
10	9	2 - 9	21.0	21.80	75
12	11	2 - 11	24.0	26.20	85
14	11	2 - 11	24.0	29.40	85
16	11	2 - 11	24.0	32.55	85
18	11 / 18	2 - 11 / 9 - 16.5	42.0	35.35	100
20	18	9 - 16.5	42.0	38.90	100
22	18	9 - 16.5	42.0	42.10	100
24	18 / 22 / 24	9 - 16.5 / 15 - 20 / 19 - 24	42.0	45.10	100

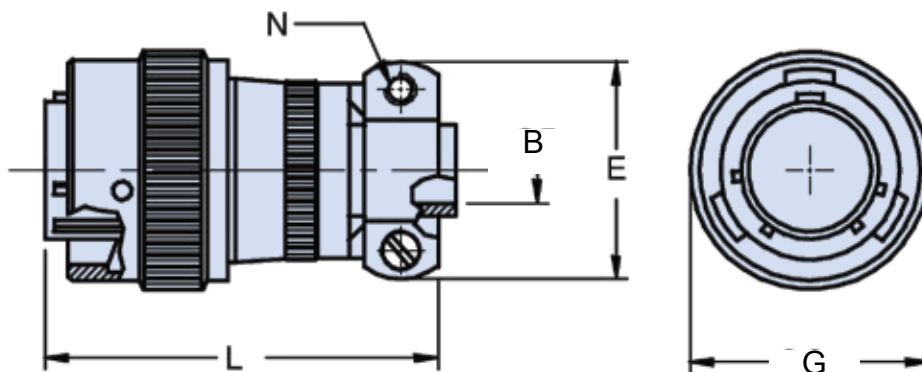
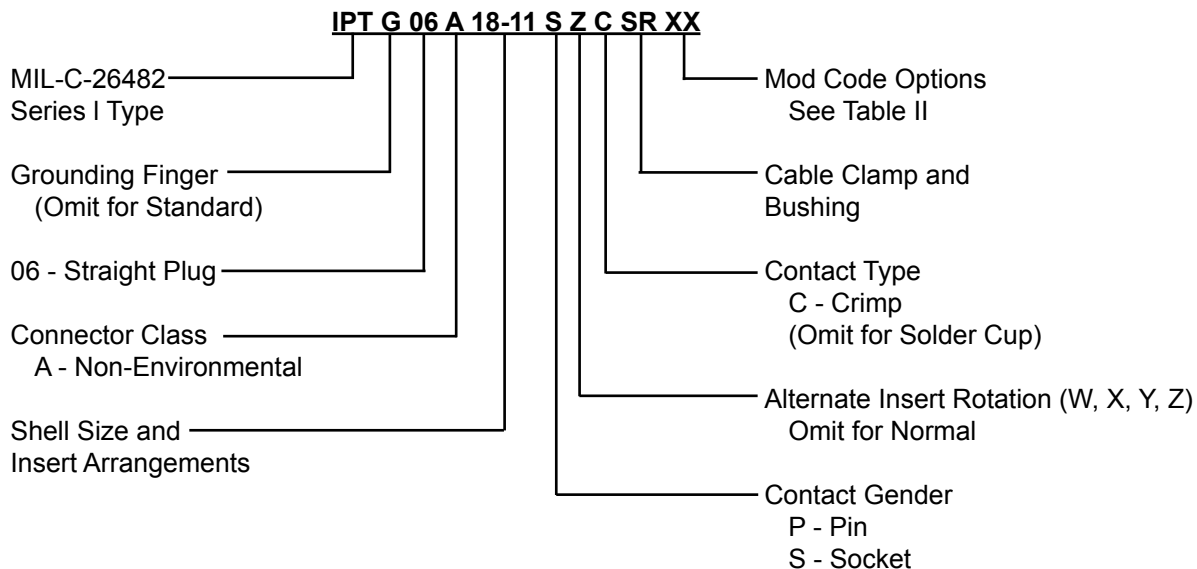
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 A...SR Straight Plug Connector with Backshell, Cable Clamp and Bushing



APPLICATION NOTES

1. Straight plug with cable clamp and bushing.
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 A...SR
Straight Plug Connector
with Backshell, Cable Clamp and Bushing



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	C min.	E Max.	G ±0.4	L Max.	N Thread
8	3.2	6.10	20.60	19.05	44.70	6 - 32
10	4.8	7.70	22.20	21.80	44.70	6 - 32
12	7.9	10.90	25.40	26.20	44.70	6 - 32
14	9.5	14.00	28.60	29.40	44.70	6 - 32
16	12.7	15.60	30.20	32.55	48.10	6 - 32
18	15.9	18.80	36.50	35.35	48.10	8 - 32
20	15.9	18.80	36.50	38.90	52.85	8 - 32
22	19.0	23.60	43.65	42.10	52.85	8 - 32
24	20.3	25.15	43.65	45.10	54.40	8 - 32

TABLE II: MODIFICATION CODES

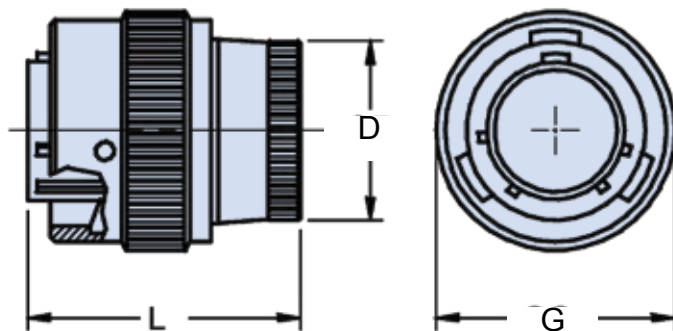
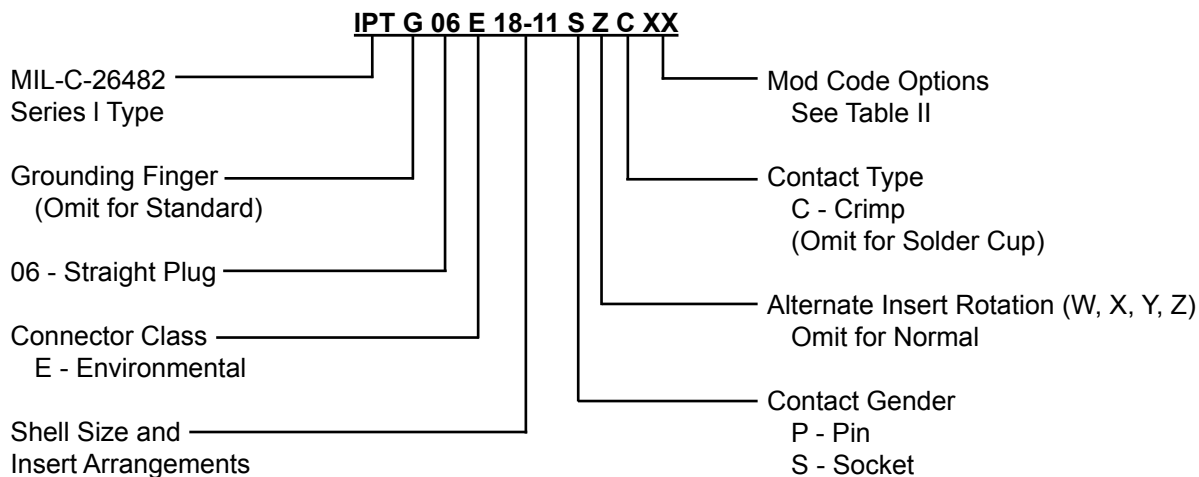
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 E

Straight Plug Connector with General Duty Backshell



APPLICATION NOTES

1. Straight plug with grommet and simple backshell for use with open wire bundles.
2. Connector Class "E" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 E

Straight Plug Connector with General Duty Backshell



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	D Max.	G ±0.4	L Max.
8	14.20	19.05	32.15
10	17.40	21.80	32.15
12	20.65	26.20	32.15
14	23.60	29.40	32.15
16	26.85	32.55	32.15
18	29.85	35.35	32.15
20	33.00	38.90	36.50
22	36.30	42.10	36.50
24	39.50	45.10	38.10

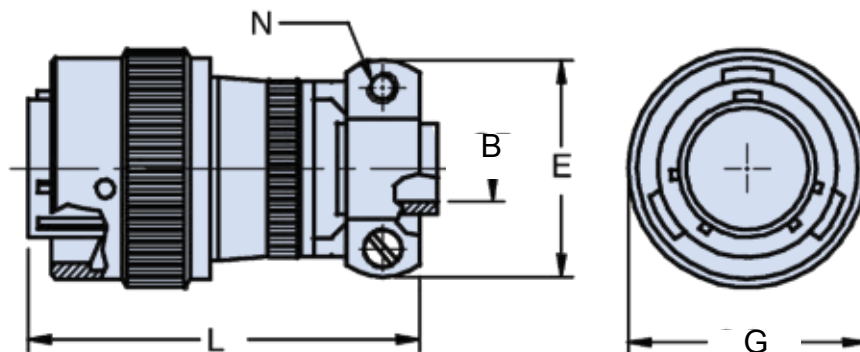
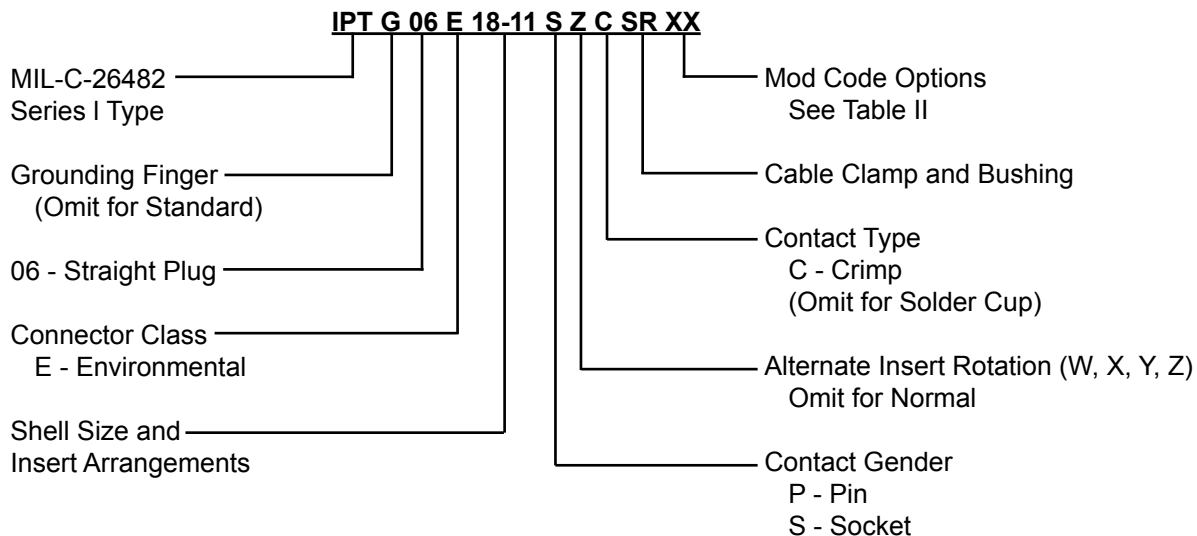
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 E...SR **Straight Plug Connector** **with Backshell, Cable Clamp and Bushing**



APPLICATION NOTES

1. Straight plug with cable clamp and bushing for cable protection.
2. Connector Class "E" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 E...SR
Straight Plug Connector
with Backshell, Cable Clamp and Bushing



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	C min.	E Max.	G ±0.4	L Max.	N Thread
8	3.2	6.10	20.60	19.05	44.70	6 - 32
10	4.8	7.70	22.20	21.80	44.70	6 - 32
12	7.9	10.90	25.40	26.20	44.70	6 - 32
14	9.5	14.00	28.60	29.40	44.70	6 - 32
16	12.7	15.60	30.20	32.55	48.10	6 - 32
18	15.9	18.80	36.50	35.35	48.10	8 - 32
20	15.9	18.80	36.50	38.90	52.85	8 - 32
22	19.0	23.60	43.65	42.10	52.85	8 - 32
24	20.3	25.15	43.65	45.10	54.40	8 - 32

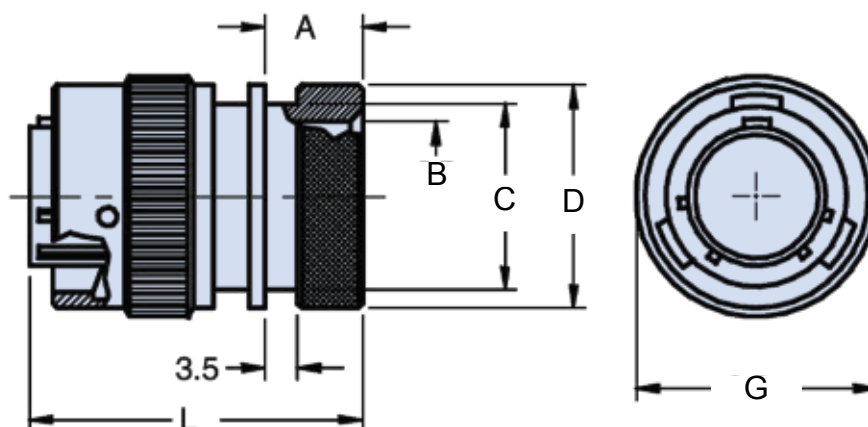
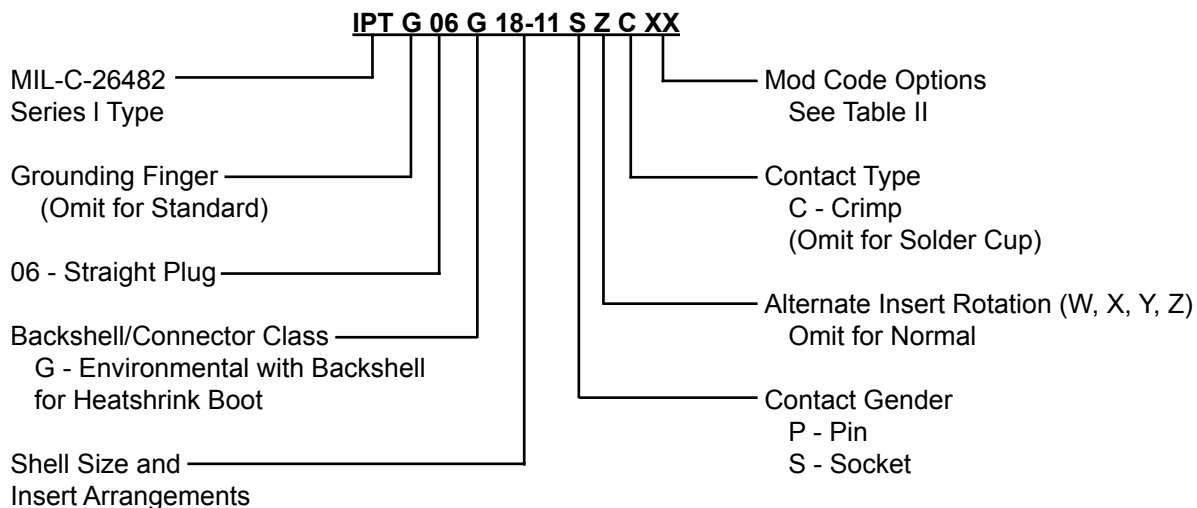
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 G **Straight Plug Connector** **with Backshell for Heat Shrink Boot**



APPLICATION NOTES

1. Straight plug with backshell suitable for heat shrink boot; Environmental, connector includes wire sealing grommet.
2. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
3. Standard contact material consists of copper alloy with gold plating over nickel.
4. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
5. Standard insert is high insulation synthetic rubber.

IPT 06 G
Straight Plug Connector
with Backshell for Heat Shrink Boot



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A ±0.1	ØB +0.1 -0	ØC +0 -0.1	ØD +0 -0.3	L Max.	ØG Max.
8	12.2	8.20	13.0	15.5	39	19.05
10	12.2	11.40	15.8	18.3	39	21.80
12	12.2	14.55	21.0	23.6	39	26.20
14	12.2	17.50	21.8	24.4	39	29.40
16	14.5	20.60	25.9	29.7	42	32.55
18	14.5	23.15	28.2	31.9	42	35.35
20	15.8	26.50	32.2	36.0	47	38.90
22	15.8	29.60	34.5	38.4	47	42.10
24	14.9	32.80	37.6	41.5	47	45.10

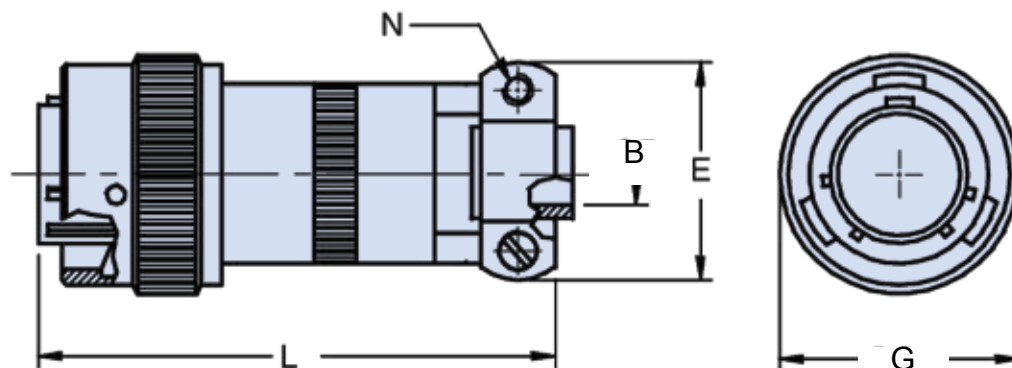
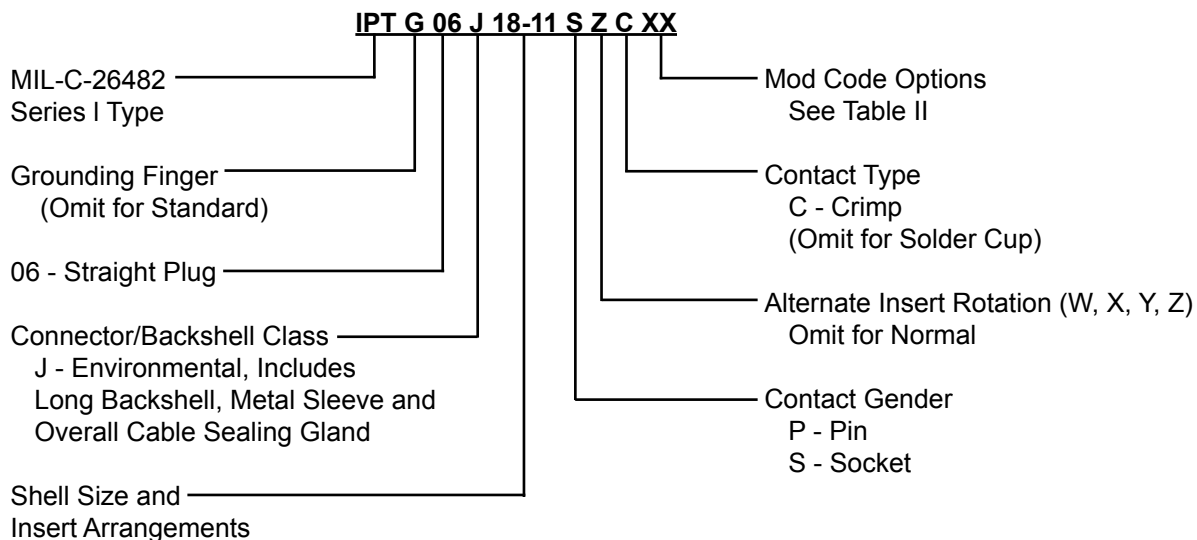
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 J
Straight Plug Connector
with Long Backshell,
Metal Sleeve, Cable Sealing Gland, and Cable Clamp



APPLICATION NOTES

1. Straight plug with long backshell, incorporated metal sleeve, gland seal and cable clamp.
2. Connector/Backshell Class "J" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 J
Straight Plug Connector
 with Long Backshell,
 Metal Sleeve, Cable Sealing Gland, and Cable Clamp



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	E Max.	G ±0.4	L Max.	N Thread
8	3.2	20.60	19.05	53	6 - 32
10	4.8	22.20	21.80	53	6 - 32
12	7.9	25.40	26.20	57	6 - 32
14	9.5	28.60	29.40	62	6 - 32
16	12.7	30.20	32.55	70	6 - 32
18	15.9	36.50	35.35	76	8 - 32
20	15.9	36.50	38.90	86	8 - 32
22	19.0	43.65	32.10	90	8 - 32
24	20.3	43.65	45.10	96	8 - 32

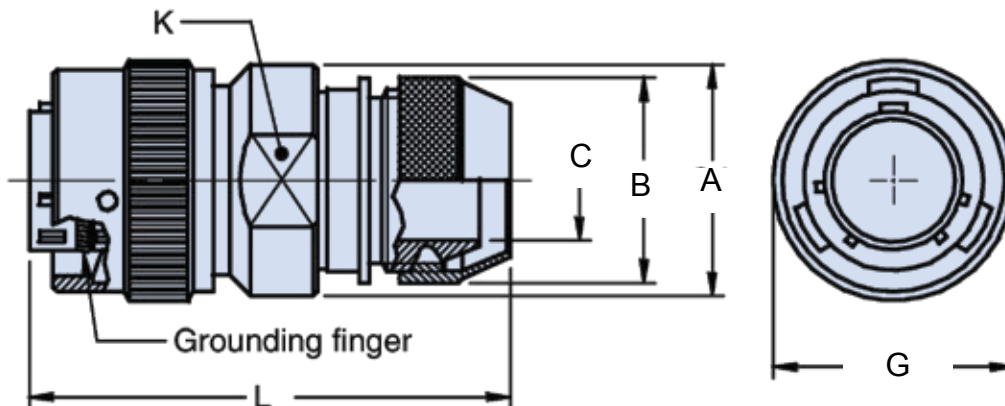
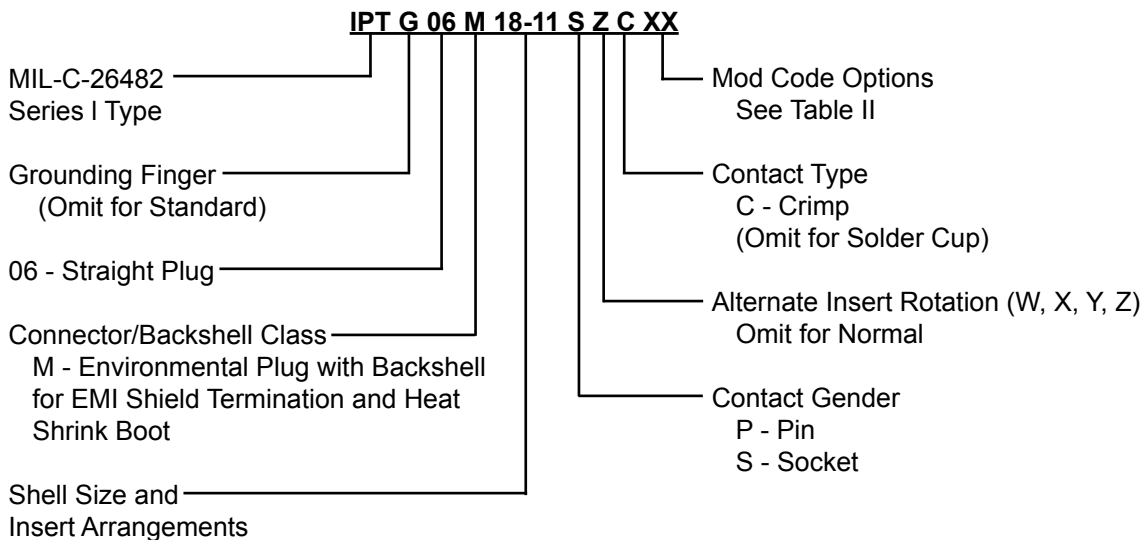
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 M
Straight Plug Connector
with Backshell Suitable for
EMI Shield Termination and Heat Shrink Boot



APPLICATION NOTES

1. Straight plug with backshell for heat shrink boot, and/or terminating EMI shielded cable.
2. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
3. Standard contact material consists of copper alloy with gold plating over nickel.
4. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
5. Standard insert is high insulation synthetic rubber.

IPT 06 M
Straight Plug Connector
 with Backshell Suitable for
 EMI Shield Termination and Heat Shrink Boot



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	A Max.	B Max.	C min.	K Key	L Max	Q Max.
8	19.80	16.3	6.70	18	52.0	19.05
10	22.50	18.4	9.30	21	52.0	21.80
12	26.90	22.4	12.25	24	52.0	26.20
14	29.90	25.4	15.40	28	53.0	29.40
16	32.85	28.4	18.50	31	53.0	32.55
18	35.80	32.4	20.20	34	53.0	35.35
20	39.60	34.4	23.20	37	57.0	38.90
22	42.90	38.4	26.05	41	57.0	42.10
24	45.90	41.3	30.00	44	58.5	45.10

TABLE II: MODIFICATION CODES

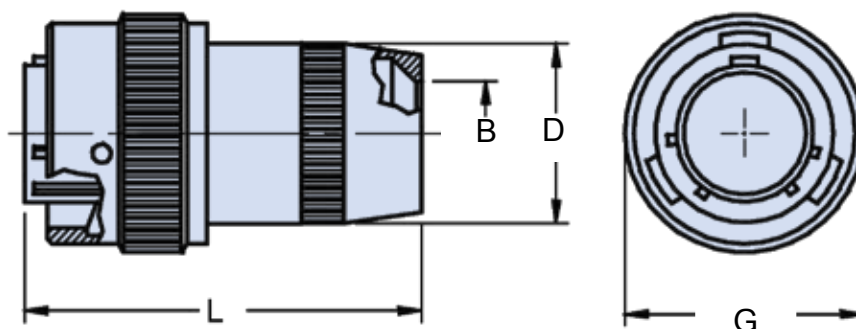
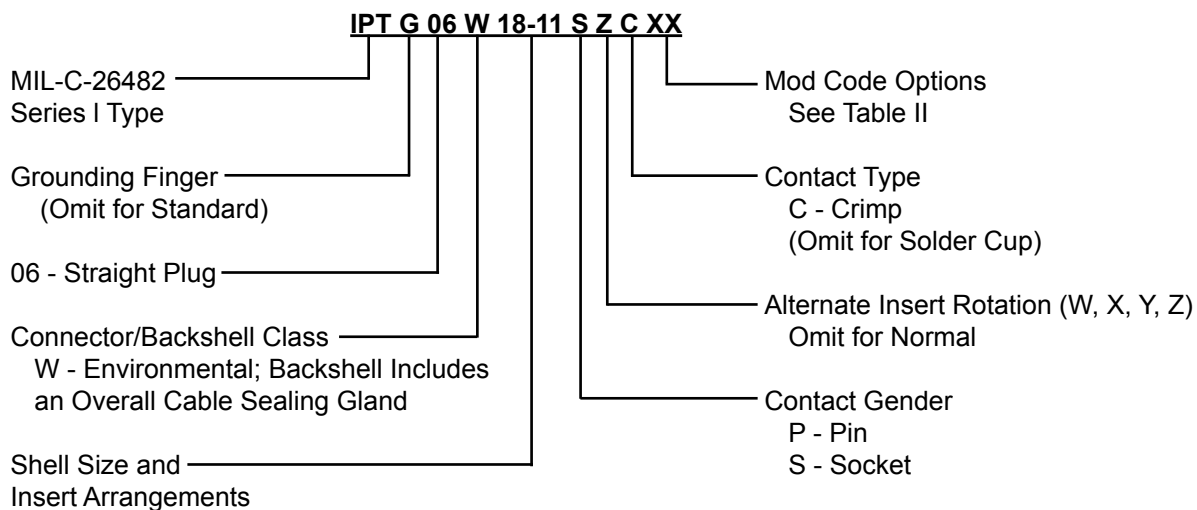
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 06 W

Straight Plug Connector with Long Backshell and Cable Sealing Gland



APPLICATION NOTES

1. Straight plug with long backshell, incorporated metal sleeve and gland seal. No cable clamp provided.
2. Connector/Backshell Class "W" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 06 W
Straight Plug Connector
 with Long Backshell and Cable Sealing Gland



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	B min.	Max.	D Max.	G ±0.4	L Max.
8	4.25	5.85	13.90	19.05	43.30
10	5.20	7.90	17.15	21.80	43.30
12	8.60	11.20	20.60	26.20	46.90
14	10.55	13.70	23.90	29.40	51.80
16	14.00	15.65	27.10	32.55	57.30
18	15.25	17.10	30.30	35.35	63.15
20	16.10	19.00	33.60	38.90	72.20
22	17.00	21.50	36.80	42.10	76.20
24	18.80	22.70	40.00	45.10	81.55

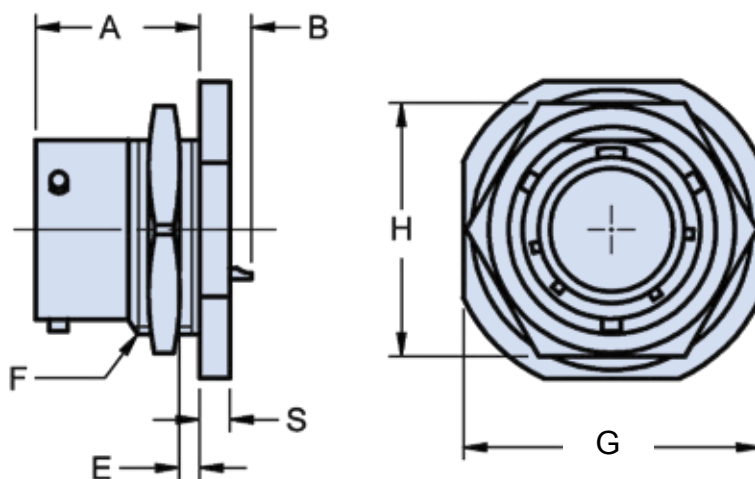
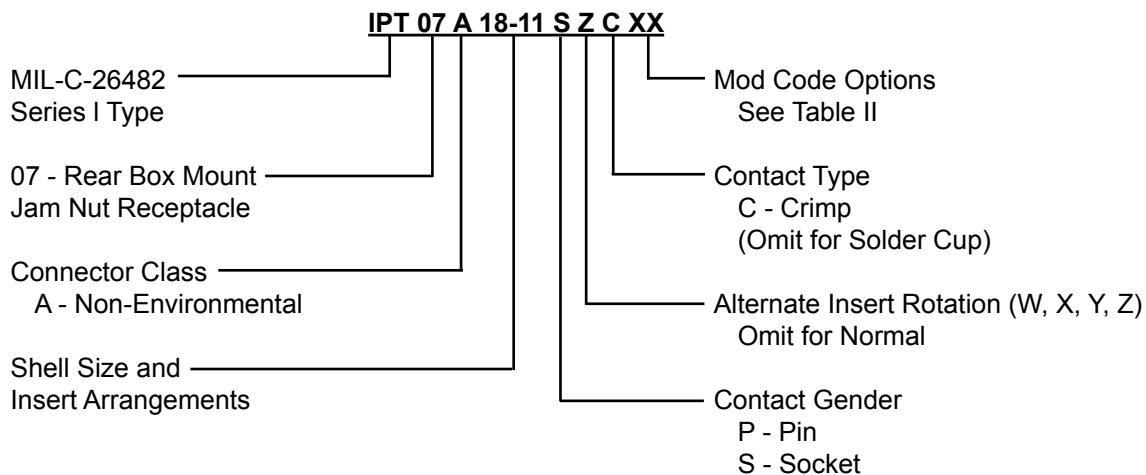
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 07 A Rear Box Mount Jam Nut Receptacle Connector



APPLICATION NOTES

1. Real box mount jam nut receptacle; No accessory threads.
2. Connector Class "A" (non-environmental).
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.

IPT 07 A

Rear Box Mount Jam Nut Receptacle Connector



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A ±0.4	B ±1	E min.	Max.	F Thread in inches	G ±0.4	H ±0.4	S ±0.4
8	17.70	4.8	1.6	3.2	.5625 - 24 UNEF	23.8	19	3.2
10	17.70	4.8	1.6	3.2	.6875 - 24 UNEF	27.0	22	3.2
12	17.70	4.8	1.6	3.2	.8750 - 20 UNEF	31.7	27	3.2
14	17.70	4.8	1.6	3.2	1.0000 - 20 UNEF	34.9	30	3.2
16	17.70	4.8	1.6	3.2	1.1250 - 18 UNEF	38.1	33	3.2
18	17.70	4.8	1.6	3.2	1.2500 - 18 UNEF	41.3	36	3.2
20	22.45	5.6	1.6	6.3	1.3750 - 18 UNEF	46.0	40	4.0
22	22.45	5.6	1.6	6.3	1.5000 - 18 UNEF	49.2	43	4.0
24	23.30	4.8	1.6	6.3	1.6250 - 18 UNEF	52.4	46	4.0

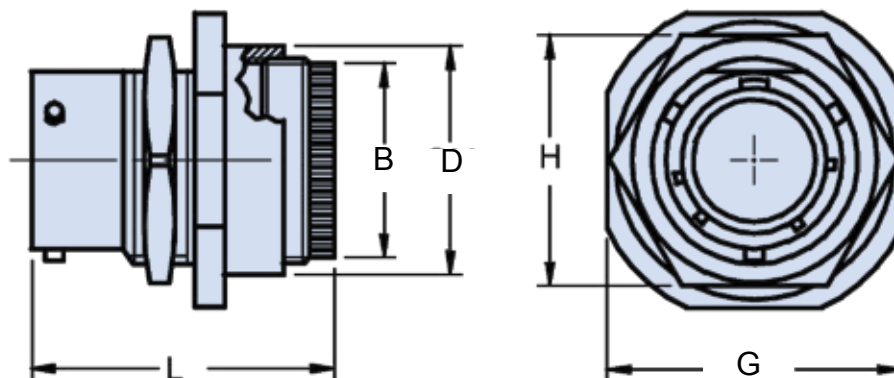
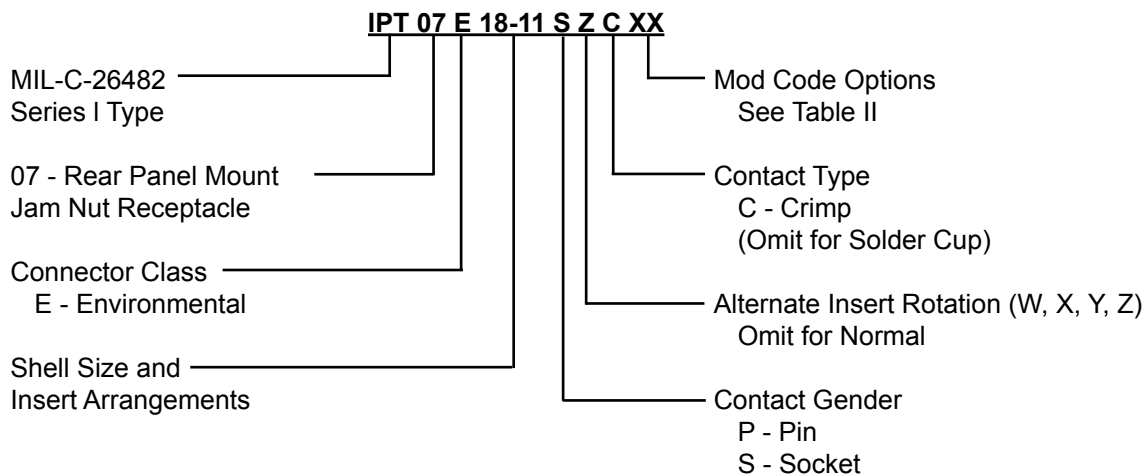
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	NXXX - Custom Designed Connector
F7 - Black Zn-Co Plating (RoHs)	
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 07 E **Rear Panel Mount Jam Nut** **Receptacle Connector with Backshell**



APPLICATION NOTES

1. Rear panel mount jam nut receptacle connector with simple backshell for open wire bundles.
2. Connector Class "E" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 07 E
Rear Panel Mount Jam Nut
Receptacle Connector with Backshell



TABLE I: DIMENSIONS

Shell size	B Max.	G ±0.4	H ±0.4	L Max.	M Max.
8	13.5	23.8	19	34.40	18.5
10	16.5	27.0	22	34.40	21.7
12	19.5	31.7	27	34.40	24.9
14	22.5	34.9	30	34.40	28.0
16	25.5	38.1	33	34.40	31.2
18	29.0	41.3	36	34.40	34.4
20	31.8	46.0	40	40.75	38.4
22	35.0	49.2	43	40.75	41.5
24	38.0	52.4	46	52.30	44.7

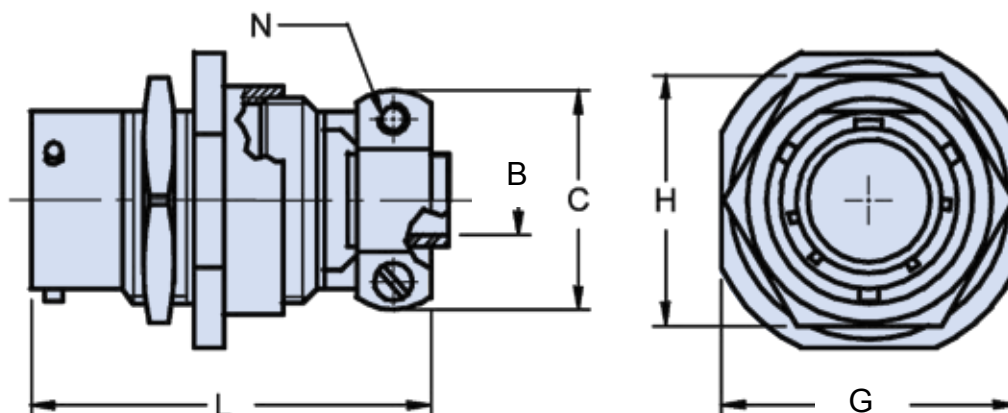
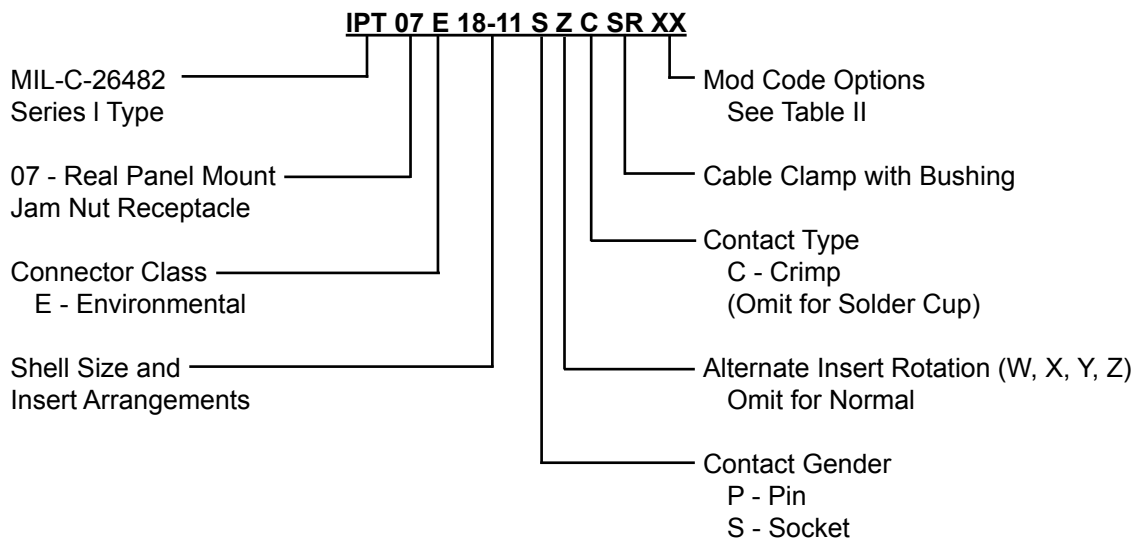
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 07 E...SR **Rear Panel Mount Jam Nut** **Receptacle Connector and Backshell** **with Cable Clamp and Bushing**



APPLICATION NOTES

1. Rear panel mount jam nut receptacle connector and backshell with cable clamp and bushing.
2. Connector/Backshell Class "E" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 07 E...SR
Rear Panel Mount Jam Nut
Receptacle Connector and Backshell
with Cable Clamp and Bushing



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	B ±0.25	C Max.	G ±0.4	H ±0.4	L Max	N Thread
8	3.2	20.60	23.8	19	56	6 - 32
10	4.8	22.20	27.0	22	56	6 - 32
12	7.9	25.40	31.7	27	56	6 - 32
14	9.5	28.60	34.9	30	56	6 - 32
16	12.7	30.20	38.1	33	56	6 - 32
18	15.9	36.50	41.3	36	58	8 - 32
20	15.9	36.50	46.0	40	58	8 - 32
22	19.0	43.65	49.2	43	65	8 - 32
24	20.3	43.65	52.4	46	65	8 - 32

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 07 Y Rear Box Mount Jam Nut Receptacle with Printed Circuit Board Contacts

IPT 07Y 18-11 S Z XX

MIL-C-26482 Series I Type

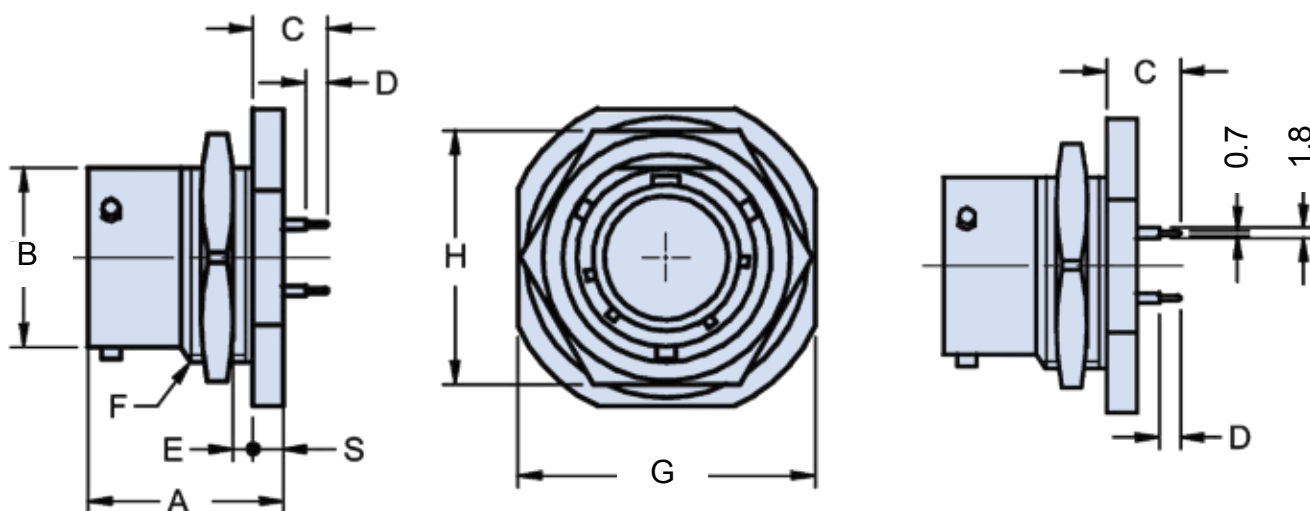
07Y - Rear Box Mount Jam Nut Receptacle with Printed Circuit Board Contacts

Shell Size and Insert Arrangements

Mod Code Options See Table II

Alternate Insert Rotation (W, X, Y, Z) Omit for Normal

Contact Gender
P - Pin
S - Socket



APPLICATION NOTES

1. Rear box mount jam nut receptacle connector with printed circuit board contacts.
2. Connector Style "Y" — Includes PCB tails. Contact factory for custom tail lengths.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.

IPT 07 Y

Rear Box Mount Jam Nut Receptacle with Printed Circuit Board Contacts



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	A ±0.2	B +0.02 -0.12	E min.	Max.	F Thread in inches	G ±0.4	H ±0.4	S ±0.4
8	20.85	12.01	1.6	3.2	.5625 - 24 UNEF	23.8	19	3.2
10	20.85	14.98	1.6	3.2	.6875 - 24 UNEF	27.0	22	3.2
12	20.85	19.05	1.6	3.2	.8750 - 20 UNEF	31.7	27	3.2
14	20.85	22.22	1.6	3.2	1.0000 - 20 UNEF	34.9	30	3.2
16	20.85	25.40	1.6	3.2	1.1250 - 18 UNEF	38.1	33	3.2
18	20.85	28.57	1.6	3.2	1.2500 - 18 UNEF	41.3	36	3.2
20	26.40	31.75	1.6	6.3	1.3750 - 18 UNEF	46.0	40	4.0
22	26.40	34.92	1.6	6.3	1.5000 - 18 UNEF	49.2	43	4.0
24	26.40	38.10	1.6	6.3	1.6250 - 18 UNEF	52.4	46	4.0

TABLE I: DIMENSIONS (Continued from Above)

Shell size	Y		Y1		Y2		YS		YL		YM		YK	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D
	±0.4	±0.2	±0.4	±0.2	±0.4	±0.2	±0.4	±0.2	±0.4	±0.2	±0.4	±0.2	±0.4	±0.2
8	9.4	3.6	8.9	3.2	9.4	4.8	7.8	3.2	12.5	6.0	14.0	7.2	12.1	7.1
10	9.4	3.6	8.9	3.2	9.4	4.8	7.8	3.2	12.5	6.0	14.0	7.2	12.1	7.1
12	9.4	3.6	8.9	3.2	9.4	4.8	7.8	3.2	12.5	6.0	14.0	7.2	12.1	7.1
14	9.4	3.6	8.9	3.2	9.4	4.8	7.8	3.2	12.5	6.0	14.0	7.2	12.1	7.1
16	9.4	3.6	8.9	3.2	9.4	4.8	7.8	3.2	12.5	6.0	14.0	7.2	12.1	7.1
18	9.4	3.6	8.9	3.2	9.4	4.8	7.8	3.2	12.5	6.0	14.0	7.2	12.1	7.1
20	9.6	3.6	8.7	3.2	-	-	9.3	3.2	11.1	6.0	-	-	11.9	7.1
22	9.6	3.6	8.7	3.2	-	-	9.3	3.2	11.1	6.0	-	-	11.9	7.1
24	8.8	3.6	8.5	3.2	-	-	8.5	3.2	10.3	6.0	-	-	11.2	7.1

TABLE II: MODIFICATION CODES

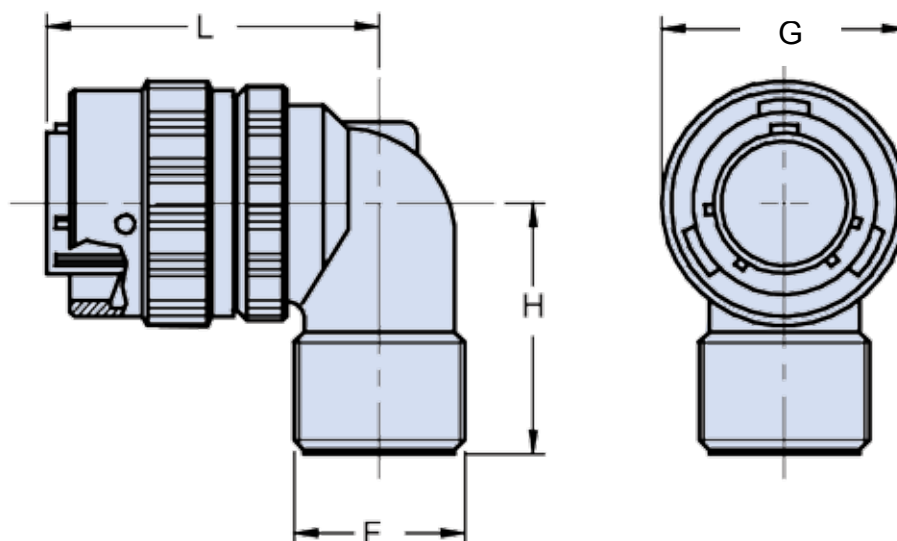
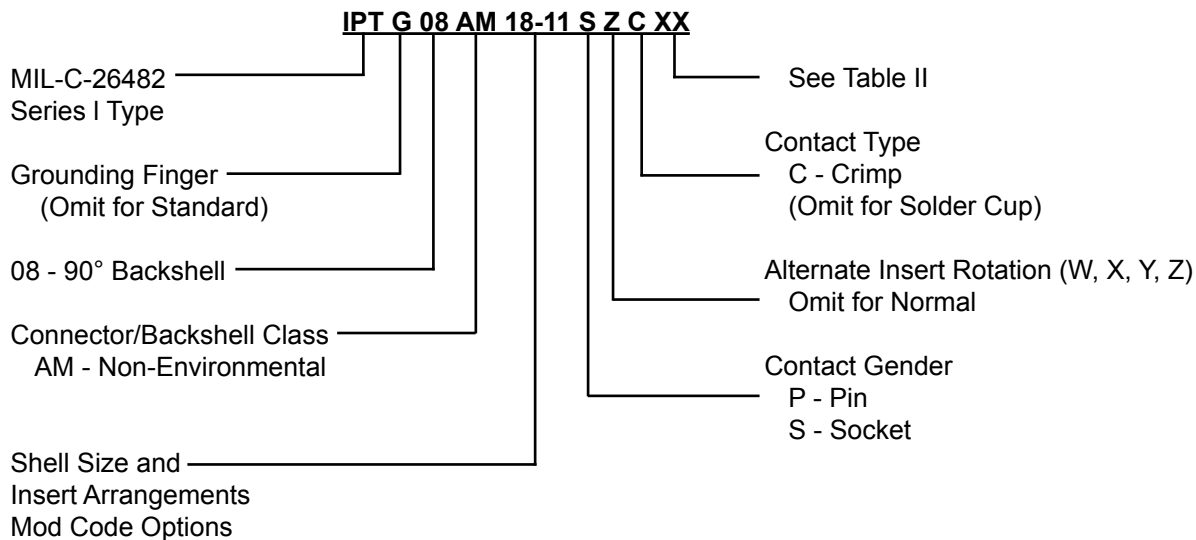
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	NXXX - Custom Designed Connector
F7 - Black Zn-Co Plating (RoHs)	
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good



IPT 08 AM Plug Connector with 90° Backshell Suitable for MS3057 Cable Clamp NOT INCLUDED



APPLICATION NOTES

1. Plug with 90° backshell for cable clamp MS3057-A/B/C (not included).
2. Connector/Backshell Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

**Plug Connector
with 90° Backshell suitable for MS3057
Cable Clamp (NOT INCLUDED)**



**IPT Series
Bayonet Lock
Connectors**

TABLE I: DIMENSIONS

Shell size	F Thread in inches	G Max.	H ±1	L ±1
8	.5000 - 28 UNEF	19.05	19	32
10	.6250 - 24 UNEF	21.80	24	32
12	.7500 - 20 UNEF	26.20	27	35
14	.8750 - 20 UNEF	29.40	28	38
16	1.0000 - 20 UNEF	32.55	30	41
18	1.1875 - 18 UNEF	35.35	32	44
20	1.1875 - 18 UNEF	38.90	34	48
22	1.4375 - 18 UNEF	42.10	36	51
24	1.4375 - 18 UNEF	45.10	39	56

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 08 A...PHM__ Plug Connector with 90° PHM Backshell and Sleeves to Accommodate Various Cable Sizes

IPT G 08 A 18-11 S Z C PHM18 XX

MIL-C-26482
Series I Type

Grounding Finger
(Omit for Standard)

08 - 90° Plug

Connector Class
A - Non-Environmental

Shell Size and
Insert Arrangements

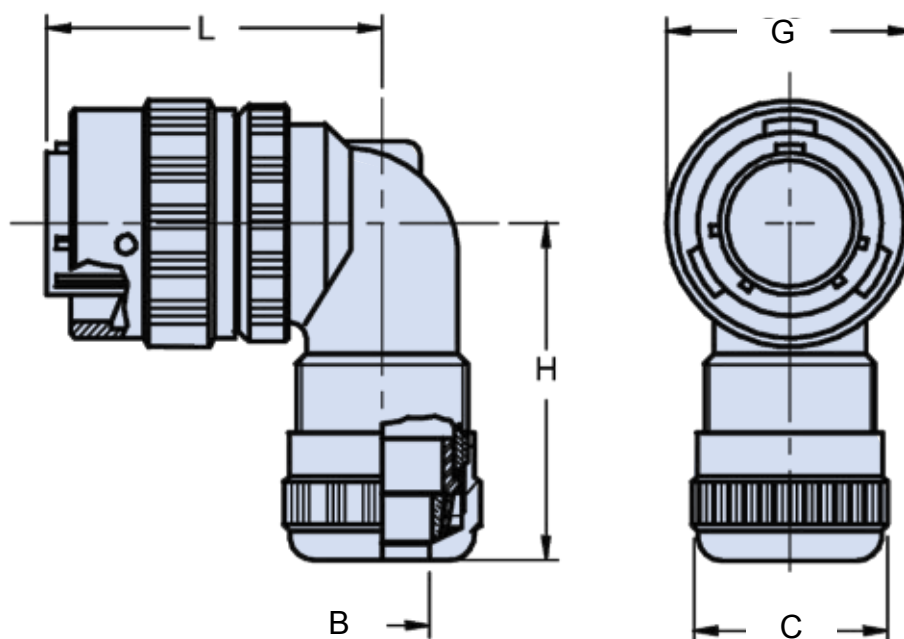
Mod Code Options
See Table II

PHM Thread Size
See Table I

Contact Type
C - Crimp
(Omit for Solder Cup)

Alternate Insert Rotation (W, X, Y, Z)
Omit for Normal

Contact Gender
P - Pin
S - Socket



APPLICATION NOTES

1. Plug with 90° backshell and PHM cable clamp. The PHM cable clamp assures excellent mechanical strength and splash proof sealing (if used with the correct neoprene sealing sleeves).
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 08 A...PHM__
Plug Connector with 90° PHM Backshell
and Sleeves to Accommodate Various Cable Sizes



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	P.N. PHM	B min. - max.	D Max.	G Max	H Max.	L +1
8	7	2 - 7	15.0	19.05	40	32
10	9	2 - 9	21.0	21.80	40	32
12	11	2 - 11	24.0	26.20	43	35
14	11	2 - 11	24.0	29.40	45	38
16	11	2 - 11	24.0	32.55	53	41
18	11 / 18	2 - 11 / 9 - 16.5	42.0	35.35	53	44
20	18	9 - 16.5	42.0	38.90	53	48
22	18	9 - 16.5	42.0	42.10	56	51
24	18 / 22 / 24	9 - 16.5 / 15 - 20 / 19 - 24	42.0	45.10	56	56

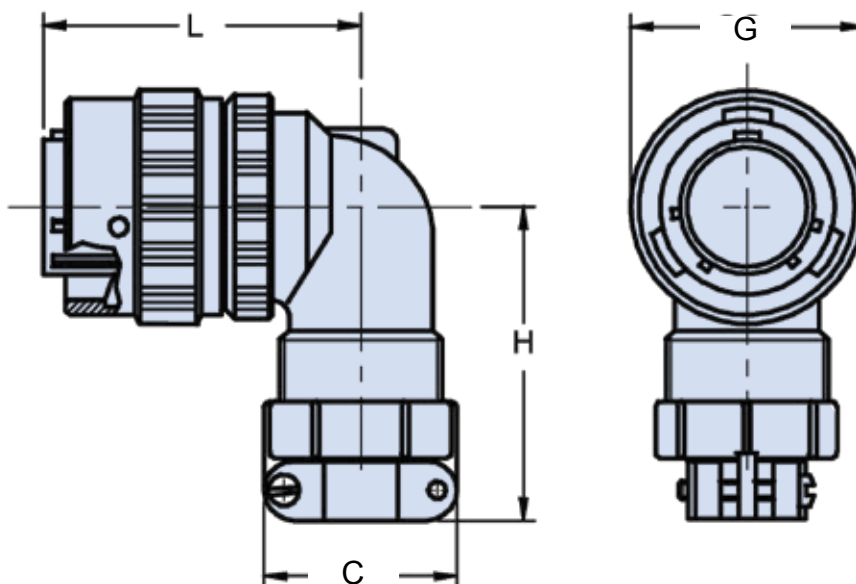
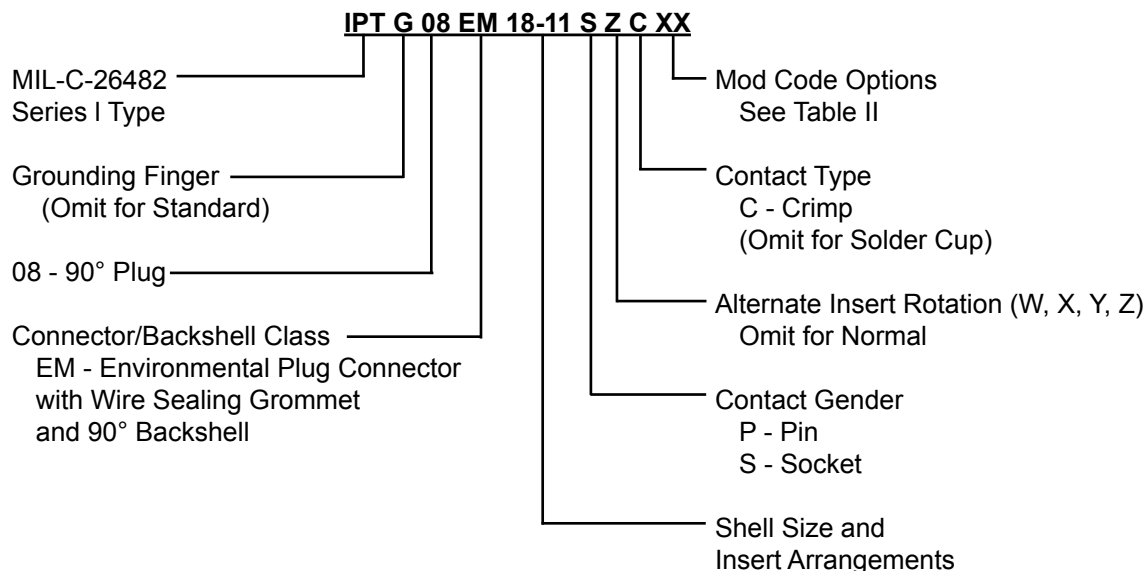
TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 08 EM Plug Connector with 90° Backshell with MS 3057 Cable Clamp



APPLICATION NOTES

1. Plug with 90° backshell, sealing grommet and 90° Backshell suitable for MS3057 cable clamp.
2. Connector/Backshell Class "EM" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 08 EM
Plug Connector
 with 90° Backshell with MS 3057 Cable Clamp



TABLE I: DIMENSIONS

Shell size	C Max.	G Max.	H ±1	L ±1
8	17.5	19.05	37	32
10	22.0	21.80	37	32
12	27.0	26.20	40	35
14	28.0	29.40	43	38
16	33.0	32.55	50	41
18	35.0	35.35	50	44
20	35.0	38.90	50	48
22	43.0	42.10	53	51
24	43.0	45.10	53	56

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

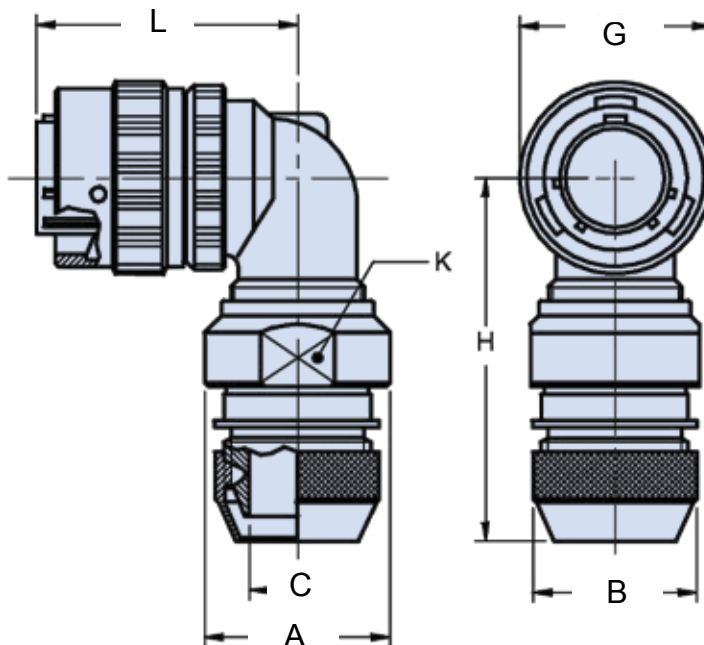
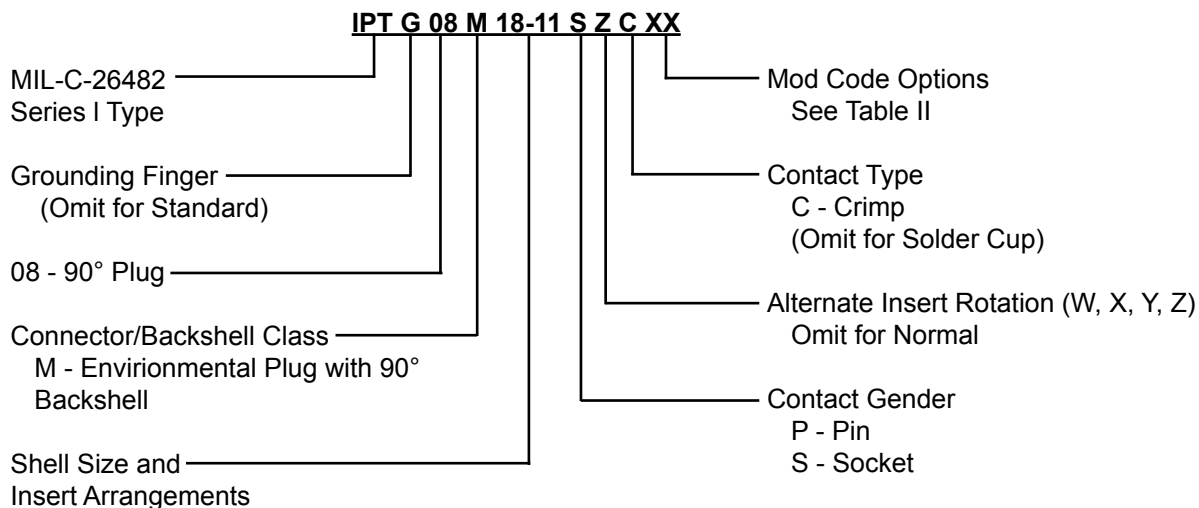
STANDARD FINISHES (For QQ-A-591 Aluminum Shells)

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electrical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 08 M

Plug Connector

with 90° Backshell for Shield Termination and Shrink Boot



APPLICATION NOTES

1. Plug with 90° backshell for terminating shielded cable. Also suitable for heat shrink boots.
2. Connector/Backshell Class "M" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact factory for complete information.
6. Standard insert is high insulation synthetic rubber.

IPT 08 M
Plug Connector
 with 90° Backshell for Shield Termination and Shrink Boot



IPT Series
 Bayonet Lock
 Connectors

TABLE I: DIMENSIONS

Shell size	A Max.	B Max.	C min.	H Max.	K Key	L Max.	Q Max.
8	19.80	16.3	6.70	55	18	52.0	19.05
10	22.50	18.4	9.30	60	21	52.0	21.80
12	26.90	22.4	12.25	63	24	52.0	26.20
14	29.90	25.4	15.40	65	28	53.0	29.40
16	32.85	28.4	18.50	67	31	53.0	32.55
18	35.80	32.4	20.20	69	34	53.0	35.35
20	39.60	34.4	23.20	71	37	57.0	38.90
22	42.90	38.4	26.05	73	41	57.0	42.10
24	45.90	41.3	30.00	76	44	58.5	45.10

TABLE II: MODIFICATION CODES

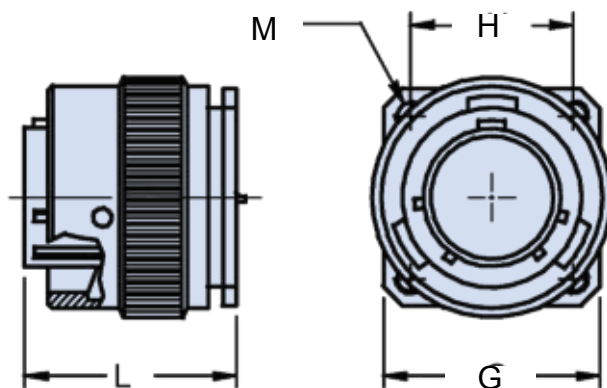
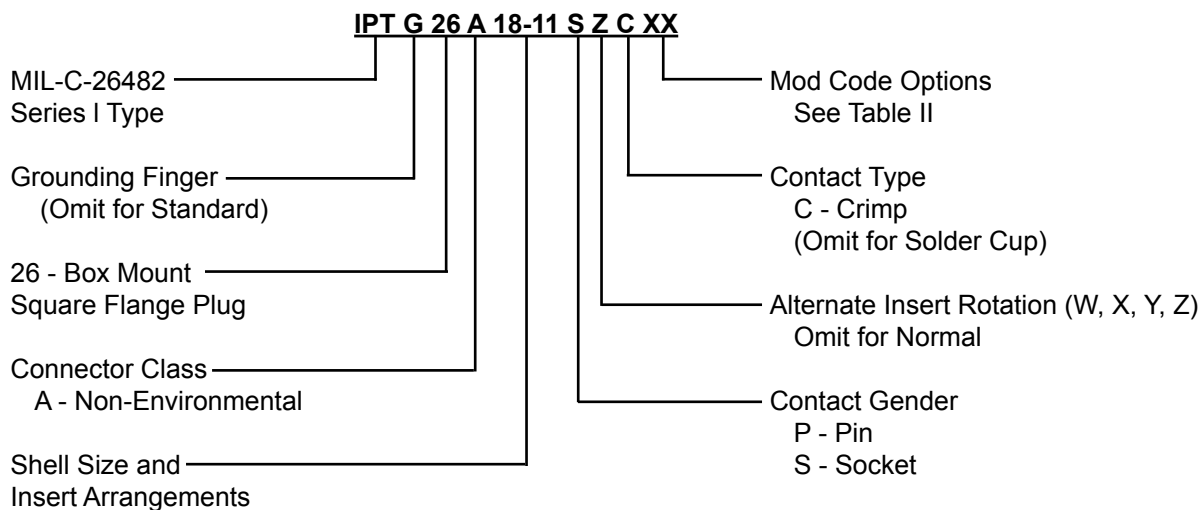
Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

IPT 26 A

Box Mount Rear Flange Plug Connector



APPLICATION NOTES

1. Square flange box mount plug connector to be mated with In-line receptacles (IPT01).
2. Connector Class "A" (non-environmental)—no grommet supplied.
3. Standard materials configuration consists of aluminum alloy with stainless steel coupling pins.
4. Standard contact material consists of copper alloy with gold plating over nickel.
5. Standard insert is high insulation synthetic rubber.

IPT 26 A

Box Mount Rear Flange Plug Connector



IPT Series
Bayonet Lock
Connectors

TABLE I: DIMENSIONS

Shell size	L Max.	G ±0.4	H ±0.1	M thread
16	26.5	33.5	25.40	6 - 32UNC
20	33.5	41.3	31.75	6 - 32UNC
22	33.5	41.3	31.75	6 - 32UNC
24	33.5	42.9	34.90	6 - 32UNC

TABLE II: MODIFICATION CODES

Shell Finish (Omit for Standard Cad/Olive Drab Finish)	Assembly with Accessories (Omit for Standard Version)
F2 - Bright Nickel Plating (RoHs)	Key Polarization (Omit for N version) W, X, Y, Z = Alternates
F6 - Black Electrodeposited Paint (RoHs)	N0 - Connector Less Backshell
F7 - Black Zn-Co Plating (RoHs)	NXXX - Custom Designed Connector
F8 - Olive Drab Zn-Co Plating	

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

Requirements	IAW RoHS			Not IAW RoHS	
	F2 Electrolytic Nickel	F6 Black Non Conductive	F7 Black Conductive	G3 Cadmium with Olive Drab Passivation	F8 Zinc Cobalt with Olive Drab Passivation
Thermal Shock	-40°C + 100°C	-55°C + 125°C	-55°C + 125°C	-55°C + 125°C	-40°C + 100°C
Salt Spray After Thermal Shock	24 hour	500 hour	500 hour	500 hour	200 hour
Electical Conductivity	Very Good	NO	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Good	Very Good	Good

Introducing The Series 80 “Mighty Mouse” Connector



The Miniaturized Connector Family with Integrated EMI Shield Termination

When electronic systems expand in number and complexity in military air, sea and ground applications, the available space for interconnect cabling is reduced. And when the latest generation of land vehicle, fighter jet or Navy ship needs to accommodate more systems and controls than ever before—and still weigh less than

it did last time—then reducing connector package size and weight becomes a critical concern.

That's why Glenair designed the “Mighty Mouse” with an integral shield termination platform. The ability to use the connector as is—without the need to mount an accessory backshell—further reduces the already lightweight package size of this small but mighty connector.



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A Full range of Standard MIL-C-26482 Type Cable Clamps and Connector Accessories for IPT SE and IPT Series Products

Complete Flexibility in Ordering

The Glenair Series IPT SE and IPT (MIL-C-26482 Type) Bayonet-Lock Connector family is designed for the ultimate convenience in ordering. Common connector and backshell combinations are available in sections A and B of this catalog. This section offers some additional accessories for mechanical, environmental and EMC

requirements. Many part numbers are ready for immediate same-day shipment.

The tooling offered includes manual and pneumatic crimp tools and contact insertion and removal devices. These specialized connector assembly tools are specified according to contact genders and gage. See the table on page C-12.

*Full Line of Connector and Contact Assembly Tools
General Duty and Environmental Cable Clamps
Protective Covers
Dummy Stowage Receptacles and Mounting Gaskets
All Standard Materials and Finishes*



IT 3057-A Cable Clamp

IT 3057-16A F2

MIL-C-26482
Accessory

Basic Part Number
and Shell Size

Finish Options
(See Table II)

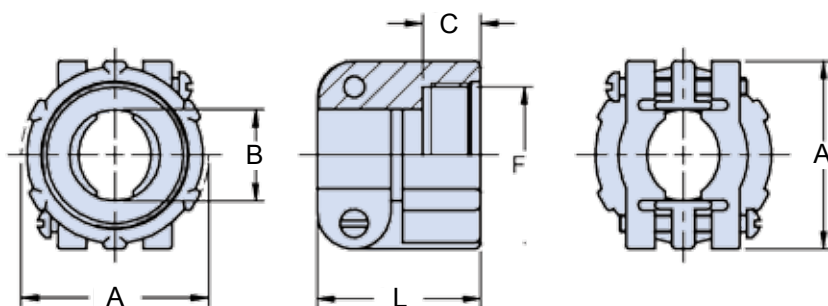


TABLE II:

Shell Finish

Omit for Standard Cad/Olive Drab Finish

F2 - Bright Nickel Plating (RoHs)

F6 - Black Electrodeposited Paint (RoHs)

F7 - Black Zn-Co Plating (RoHs)

F8 - Olive Drab Zn-Co Plating

APPLICATION NOTES

General duty cable clamp suitable for jacketed cable or wires protected by tubing.

TABLE I: DIMENSIONS

Commital P/N	Shell size	Sleeve to use	A	B	C	F Thread in inches	L
IT3057 - 3A	8	IT3420 - 3	18	6.8	10.2	0.5000 - 28UNEF	20.6
IT3057 - 4A	10	IT3420 - 4	25	8.2	10.2	0.6250 - 24UNEF	21.0
IT3057 - 6A	12	IT3420 - 6	27	11.2	10.2	0.7500 - 20UNEF	22.2
IT3057 - 8A	14	IT3420 - 8	28	14.2	10.2	0.8750 - 20UNEF	24.0
IT3057 - 10A	16	IT3420 - 10	33	16.0	10.2	1.0000 - 20UNEF	28.5
IT3057 - 12A	18	IT3420 - 12	35	19.0	10.2	1.1875 - 18NEF	24.0
IT3057 - 12A	20	IT3420 - 12	35	19.0	10.2	1.1875 - 18NEF	24.0
IT3057 - 16A	22	IT3420 - 16	43	23.8	10.5	1.4375 - 18NEF	26.0
IT3057 - 16A	24	IT3420 - 16	43	23.8	10.5	1.4375 - 18NEF	26.0

IT 3057-C Cable Clamp

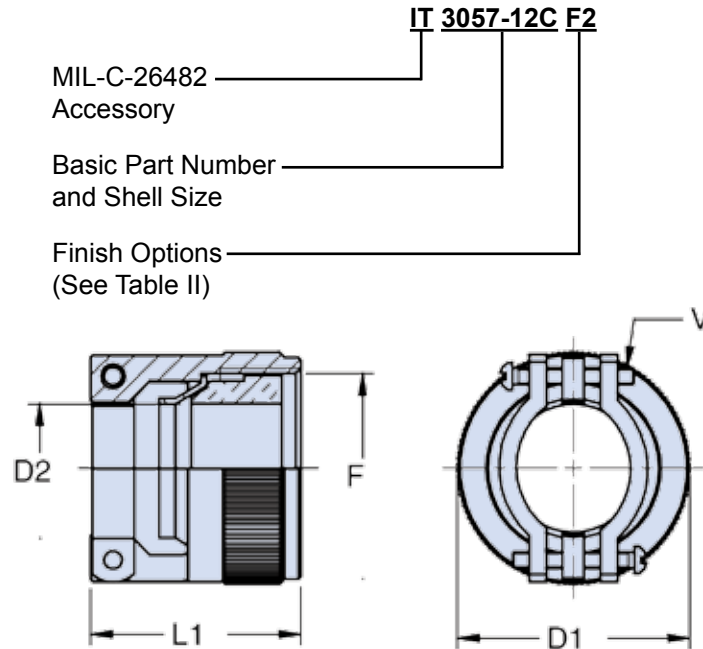


TABLE II:

Shell Finish

Omit for Standard Cad/Olive Drab Finish

F2 - Bright Nickel Plating (RoHs)

F6 - Black Electrodeposited Paint (RoHs)

F7 - Black Zn-Co Plating (RoHs)

F8 - Olive Drab Zn-Co Plating

APPLICATION NOTES

Waterproof cable clamp suitable for jacketed cable or wires protected by tubing. Assures watertight integrity of connector.

TABLE I: DIMENSIONS

Commital P/N	Shell size	Sleeve to use	A	B		F Thread in inches	L	V Thread
				min.	Max.			
IT3057 - 3C	8	IT3420 - 3A	20.0	0.68	5.56	0.5000 - 28UNEF	33.2	6 - 32 NC
IT3057 - 4C	10	IT3420 - 4A	22.6	2.38	7.93	0.6250 - 24UNEF	32.3	6 - 32 NC
IT3057 - 6C	12	IT3420 - 4A / 6A	25.8	5.84	11.12	0.7500 - 20UNEF	32.3	6 - 32 NC
IT3057 - 8C	14	IT3420 - 6A / 8A	28.1	8.00	13.84	0.8750 - 20UNEF	32.3	6 - 32 NC
IT3057 - 10C	16	IT3420 - 6A / 10A	31.0	9.60	15.87	1.0000 - 20UNEF	35.3	6 - 32 NC
IT3057 - 12C	18	IT3420 - 8A / 12A	37.3	11.30	19.00	1.1875 - 18NEF	35.7	8 - 32 NC
IT3057 - 12C	20	IT3420 - 8A / 12A	37.3	11.30	19.00	1.1875 - 18NEF	35.7	8 - 32 NC
IT3057 - 16C	22	IT3420 - 8A / 12A / 16A	42.0	15.50	23.80	1.4375 - 18NEF	38.5	8 - 32 NC
IT3057 - 16C	24	IT3420 - 8A / 12A / 16A	42.0	15.50	23.80	1.4375 - 18NEF	38.5	8 - 32 NC

IT 3420 and IT 3420-A Neoprene Sleeve

IT 3420-3A

MIL-C-26482
Accessory

Basic Part Number
and Shell Size

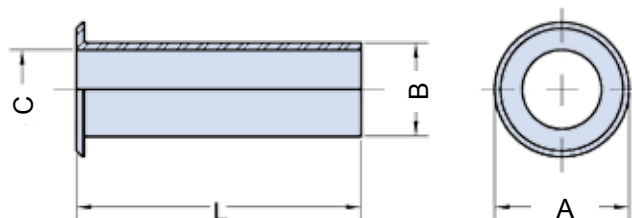


TABLE I: CLASS A CABLE CLAMPS

Codice Commital	A	B	C	L
Commital P/N	±0.1	±0.1	±0.1	±0.1
IT3420 - 3	9.5	5.33	3.30	73.0
IT3420 - 4	12.8	7.67	5.58	69.8
IT3420 - 6	15.7	10.84	7.92	66.8
IT3420 - 8	18.8	14.02	11.09	63.5
IT3420 - 10	22.0	15.62	14.27	60.3
IT3420 - 12	27.0	18.79	15.87	57.1
IT3420 - 16	33.3	23.54	19.05	53.9

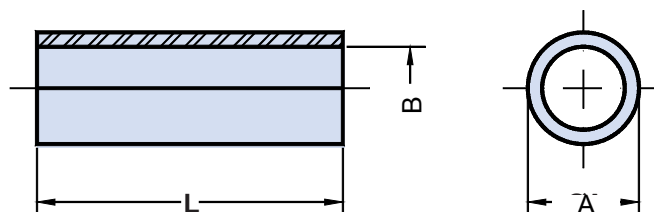


TABLE II: CLASS C CABLE CLAMPS

Codice Commital	A	B	L
Commital P/N	±0.1	±0.1	±0.1
IT3420 - 3A	5.30	2.90	50.5
IT3420 - 4A	7.63	5.56	50.5
IT3420 - 6A	10.50	7.93	50.5
IT3420 - 8A	13.50	11.10	50.5
IT3420 - 10A	15.70	11.10	50.5
IT3420 - 12A	18.50	13.74	50.9
IT3420 - 16A	23.60	19.00	50.9

APPLICATION NOTES

IT3420 : Neoprene sleeve for protection and reduction, used with class A cable clamps.

IT3420-A : Neoprene sleeve for protection and reduction, used with class C cable clamps.

IPT 3180-C and IPT 3180-CF Protective Plug Covers



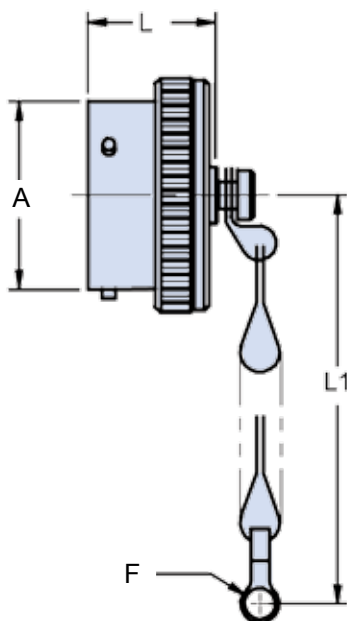
IPT 3180-10 C F2

MIL-C-26482
Accessory

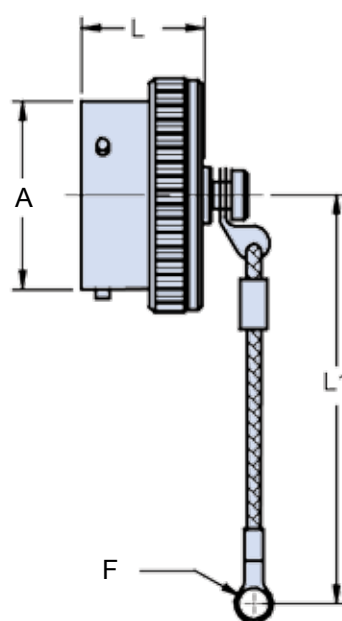
Basic Part Number
and Shell Size

Lanyard Style
C - Chain
CF - Nylon Chord

Finish Options
(See Table II)



Example: IPT3180-18C
(Stainless Steel Chain)



Example: IPT3180-18CF
(Nylon Cord)

APPLICATION NOTES

Metal cap and stainless steel chain for plugs.

TABLE II:

Shell Finish

Omit for Standard Cad/Olive Drab Finish

F2 - Bright Nickel Plating (RoHs)

F6 - Black Electrodeposited Paint (RoHs)

F7 - Black Zn-Co Plating (RoHs)

F8 - Olive Drab Zn-Co Plating

TABLE I: DIMENSIONS

Commital P/N	Shell size	A +0.02 -0.12	F +0.2 0	L +0.6 -0.4	L1 min.
IPT3180-8C	8	12:01	4.3	13.5	76.2
IPT3180-10C	10	14.98	4.3	13.5	76.2
IPT3180-12C	12	19:05	4.3	13.5	88.9
IPT3180-14C	14	22:22	4.3	13.5	88.9
IPT3180-16C	16	25.40	4.3	13.5	88.9
IPT3180-18C	18	28.57	4.3	13.5	88.9
IPT3180-20C	20	31.75	4.3	15.1	101.6
IPT3180-22C	22	34.92	4.3	15.1	101.6
IPT3180-24C	24	38.10	4.3	15.9	101.6

IPT 3181-C and IPT 3181-CF Protective Receptacle Covers

IPT 3181-10 C F2

MIL-C-26482

Accessory

Basic Part Number
and Shell Size

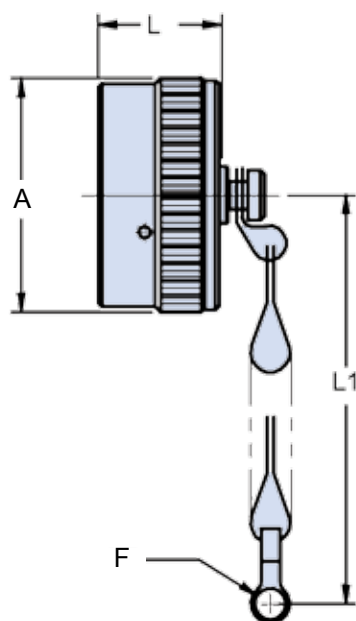
Lanyard Style

C - Chain

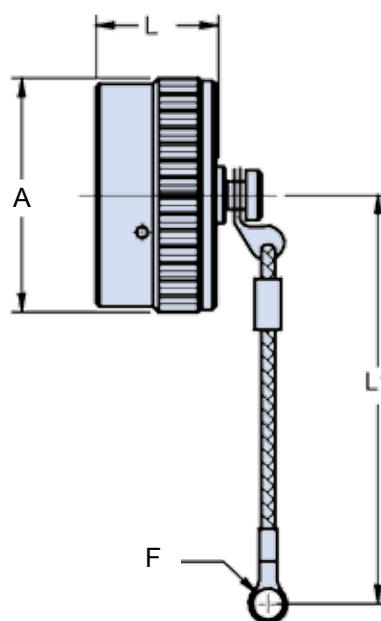
CF - Nylon Chord

Finish Options

(See Table II)



Example: IPT3181-18C
(Stainless Steel Chain)



Example: IPT3181-18CF
(Nylon Cord)

TABLE II:

Shell Finish

Omit for Standard Cad/Olive Drab Finish
F2 - Bright Nickel Plating (RoHs)

F6 - Black Electrodeposited Paint (RoHs)

F7 - Black Zn-Co Plating (RoHs)

F8 - Olive Drab Zn-Co Plating

TABLE I: DIMENSIONS

Commital P/N	Shell size	A Max.	F +0.2 -0	L +0.5 -0	L1 min.
IPT3181- 8C	8	17.95	4.3	14.50	76.2
IPT3181-10C	10	20.70	4.3	14.50	76.2
IPT3181-12C	12	25.40	4.3	14.50	88.9
IPT3181-14C	14	28.65	4.3	14.50	88.9
IPT3181-16C	16	31.90	4.3	14.50	88.9
IPT3181-18C	18	34.70	4.3	14.50	88.9
IPT3181-20C	20	38.00	4.3	14.50	101.6
IPT3181-22C	22	41.25	4.3	14.50	101.6
IPT3181-24C	24	44.40	4.3	15.55	101.6

IPT 3181-N and IPT 3181-NF Protective Receptacle Covers



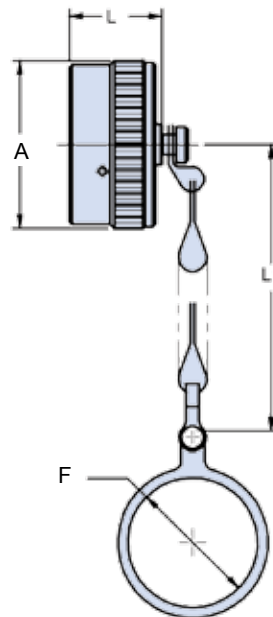
IPT 3181-10 N F2

MIL-C-26482
Accessory

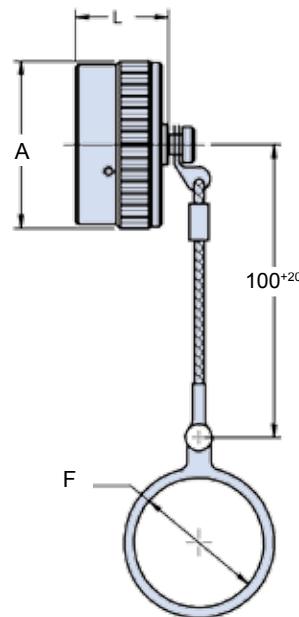
Basic Part Number
and Shell Size

Lanyard Style
N - Chain
NF - Nylon Chord

Finish Options
(See Table II)



Example: IPT3181-18N
(Stainless Steel Chain)



Example: IPT3181-18NF
(Nylon Cord)

TABLE II:

Shell Finish

Omit for Standard Cad/Olive Drab Finish

F2 - Bright Nickel Plating (RoHs)

F6 - Black Electrodeposited Paint (RoHs)

F7 - Black Zn-Co Plating (RoHs)

F8 - Olive Drab Zn-Co Plating

TABLE I: DIMENSIONS

Commital P/N	Shell size	A Max.	F +0.2 -0.1	L +0.25 -0	L1 ±3
IPT3181- 8N	8	17.95	14.70	14.50	76.2
IPT3181-10N	10	20.70	17.85	14.50	76.2
IPT3181-12N	12	25.40	22.65	14.50	88.9
IPT3181-14N	14	28.65	25.80	14.50	88.9
IPT3181-16N	16	31.90	29.00	14.50	88.9
IPT3181-18N	18	34.70	32.15	14.50	88.9
IPT3181-20N	20	38.00	35.35	14.50	101.6
IPT3181-22N	22	41.25	38.50	14.50	101.6
IPT3181-24N	24	44.40	41.00	15.55	101.6

IT 90376-R and IT 90376-Y Protective Receptacle and Plug Plastic Caps

APPLICATION NOTES

Plastic caps for protection
against dust and limited damage.

MIL-C-26482
Accessory

Basic Part Number
and Shell Size

IT 90376-10R

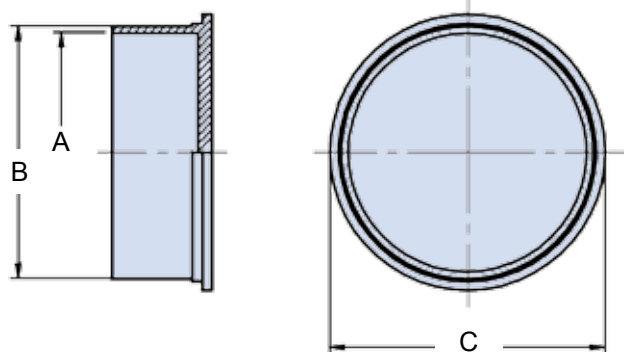


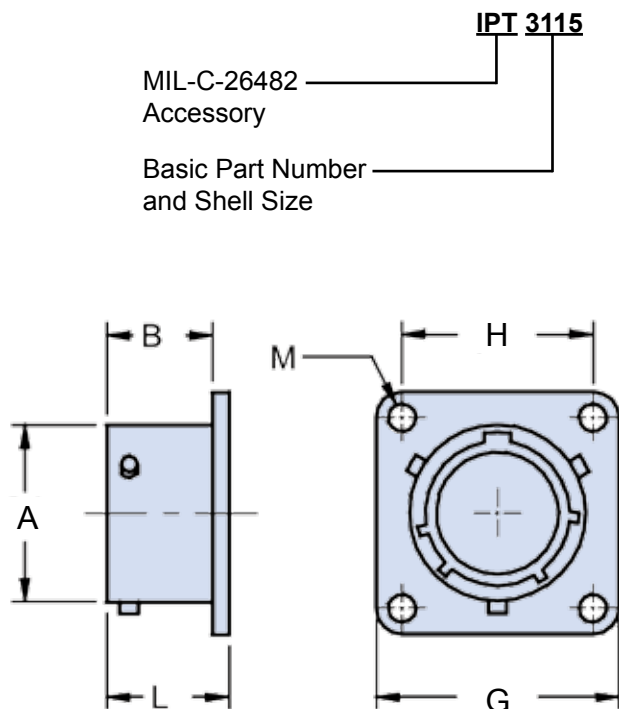
TABLE I: RECEPTACLE CAP DIMENSIONS

Commital P/N	Shell size	A ±0.25	B ±0.25	C ±0.78
IT 90376- 8R	Receptacle 8	12.19	13.71	18.79
IT 90376-10R	Receptacle 10	15.36	16.89	21.33
IT 90376-14Y	Receptacle 12	18.28	19.68	24.63
IT 90376-16Y	Receptacle 14	21.59	22.98	28.57
IT 90376-18Y	Receptacle 16	24.71	26.28	30.98
IT 90376-20Y	Receptacle 18	27.76	29.33	33.78
IT 90376-22Y	Receptacle 20	31.26	33.04	37.21
IT 90376-24Y	Receptacle 22	34.03	35.81	40.38
IT 90376-24R	Receptacle 24	37.16	38.93	43.18

TABLE II: PLUG CAP DIMENSIONS

Commital P/N	Shell size	A ±0.25	B ±0.25	C ±0.78
IT 90376- 8Y	Plug 8	10.49	12.26	17.01
IT 90376- 8R	Plug 10	13.46	15.11	19.05
IT 90376-12Y	Plug 12	16.63	18.16	21.84
IT 90376-12R	Plug 14	19.93	21.46	26.18
IT 90376-16Y	Plug 16	22.68	24.46	28.57
IT 90376-16R	Plug 18	26.11	27.63	31.75
IT 90376-18R	Plug 20	29.21	30.86	35.71
IT 90376-20R	Plug 22	32.25	34.03	38.10
IT 90376-22R	Plug 24	35.30	37.08	41.65

IPT 3115 and IPT 3115A Dummy Stowage Receptacles



APPLICATION NOTES

IPT3115 : Dummy receptacle with rear base and seal.
In conformity with MIL-C-26482.

IPT3115A : Dummy receptacle without rear base and seal.

TABLE I

Shell size	A +0.02 -0.12	B +0.25 -0	G ±0.4	H ±0.1	L +0.6 -0.25	M ±0.12
8	12.01	10.95	20.6	15.10	12.5	3.04
10	14.98	10.95	23.8	18.25	12.5	3.04
12	19.05	10.95	26.2	20.60	12.5	3.04
14	22.22	10.95	28.6	23.00	12.5	3.04
16	25.40	10.95	31.0	24.60	12.5	3.04
18	28.57	10.95	33.3	27.00	12.5	3.04
20	31.75	14.10	36.5	29.35	16.5	3.04
22	34.92	14.10	39.7	31.75	16.5	3.04
24	38.10	15.00	42.9	39.40	17.3	3.73



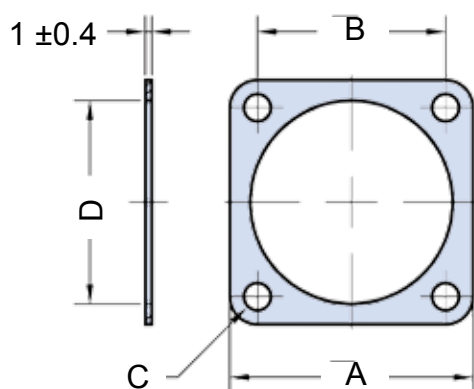
10-101949 and 10-101949-S Square Flange Panel Mount Receptacle Sealing Gaskets

10-101949-XX S

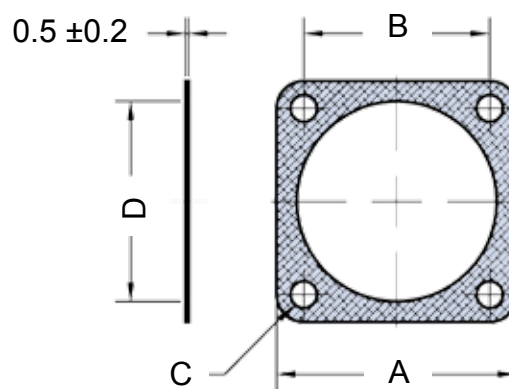
Basic Part Number _____

Shell Size _____

S = Conductive Material _____
Omit for Standard



Example: 10-101949
(Neoprene)



Example: 10-101949-S
(Conductive)

TABLE I

Commital P/N	Shell size	A ±0.5	B ±1	C ±0.7	D ±0.5
10-101949- 8	8	20.6	15.10	3.3	12.7
10-101949-10	10	23.8	18.25	3.3	15.9
10-101949-12	12	26.2	20.60	3.3	19.1
10-101949-14	14	28.6	23.00	3.3	22.3
10-101949-16	16	31.0	24.60	3.3	25.5
10-101949-18	18	33.3	27.00	3.3	28.6
10-101949-20	20	36.5	29.35	3.3	31.8
10-101949-22	22	39.7	31.75	3.3	35.0
10-101949-24	24	42.9	34.90	4.0	38.2

10-101033-11 and 10-101033-12
Sealing Plug
for Wire Sealing Grommet



10-101033-11
Basic Part Number _____
Hole Size _____

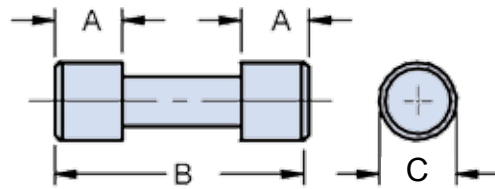


TABLE I

Commital P/N	Hole size	A ±0.13	B ±0.25	C ±0.13	Color
10-101033-11	20	2.92	9.53	2.92	Red
10-101033-12	16	3.17	11.91	3.68	Blue

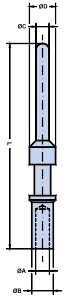
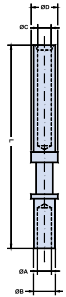


IPT and IPT-SE Series Tools

IPT Connector Assembly Tools

					
MANUAL CRIMPING TOOL	PNEUMATIC CRIMPING TOOL	TURRET	INSERTION TOOL	REMOVAL TOOL	GUIDE PIN
M.105001 (# M.105007)	M.105003	M.105011 (# M.105008)	M.117346	M.118251	M.125007
M.105001 (# M.105007)	M.105003	M.105011 (# M.105008)	M.117346	M.118251	M.125007
M.105001	M.105003	M.105011	M.117083	M.118251	M.125001
M.105001	M.105003	M.105011	M.117083	M.118251	M.125001

IPT-SE Connector Assembly Tools

		Contact Size	Wires Cross Section						
			mm ²	AWG	Manual Crimping Tool	Pneumatic Crimping Tool	Turret	Insertion Tool	Removal Tool
10-314980-20P	10-314980-20S	20		20	M.105001	M.105003	M.105011	M.117349	M.118290
10-314980-16P				16	M.105001	M.105003	M.105011	M.117383	M.118291
	10-314980-16S								

Series IPT SE

IPT SE Overview and Technical Data.....	A-1
How To Order - Part Number Breakdown.....	A-4
VG 95328 Part Number Cross Reference.....	A-5
Materials and Finishes.....	A-6
Contact Dimensions.....	A-7
Available Insert Arrangements.....	A-8
Fastener Height Requirements and Panel Cutout Dimensions.....	A-11
IPT 00 SE Front Panel Mount Square Flange Receptacle with General Duty Backshell.....	A-12
IPT 00 SE...SR Front Panel Mount Square Flange Receptacle with Backshell, Cable Clamp and Bushing.....	A-14
IPT 02 SE Rear Box Mount Square Flange Receptacle.....	A-16
IPT 07 SE Rear Panel Mount Jam Nut Receptacle Connector with Backshell.....	A-18
IPT 07 SE...SR Rear Panel Mount Jam Nut Receptacle Connector and Backshell with Cable Clamp and Bushing.....	A-20
IPT 06 GSE Straight Plug Connector with EMI/Shrinkboot Backshell.....	A-22
IPT 06 SE...SR Straight Plug Connector with Backshell, Cable Clamp and Bushing.....	A-24
IPT 06 MSE Straight Plug Connector with Backshell Suitable for EMI Shield Termination and Heat Shrink Boot.....	A-26
IPT 06 ASE Straight Plug Connector with Backshell to Accomodate MS3057 Cable Clamp (<i>not included</i>).....	A-28
IPT 02 PP Rear Box Mount Square Flange Receptacle Thru Bulkhead.....	A-30
IPT 00 MSE Front Panel Mount Square Flange Receptacle with Backshell for EMI Shield Termination and Shrink Boot.....	A-32
IPT 07 GSE Rear Panel Mount Jam Nut Receptacle Connector with EMI/Shrinkboot Backshell.....	A-34
IPT 07 MSE Rear Panel Mount Jam Nut Receptacle with Backshell for EMI Shield Termination and Shrink Boot.....	A-36
IPT G 06 GSE Straight Plug Connector with EMI/Shrinkboot Backshell.....	A-38
IPT 01 SE...SR In-Line Receptacle Connector with Backshell, Cable Clamp and Bushing.....	A-40
IPT 01 MSE In-Line Receptacle Connector with Backshell for EMI Shield Termination and Shrink Boot.....	A-42



Glenair Commital IPT Series Product Index

Series IPT

Product Line Overview.....	B-1
How to Order - Part Number Breakdown.....	B-3
Styles and Classes.....	B-4
Cross Section.....	B-6
Technical Data.....	B-7
Materials and Finishes.....	B-8
Contact Dimensions.....	B-9
Insert Arrangement Tables.....	B-10
Alternate Key Positions.....	B-11
Fastener Height Requirements and Panel Cutout Dimensions.....	B-12
Available Insert Arrangements.....	B-13
IPT 00 A Front Panel Mount Square Flange Receptacle with Backshell.....	B-16
IPT 00 A...PG_ _ Front Panel Mount Square Flange Receptacle with Backshell for Use with PG Cable Clamp (<i>clamp not included</i>).....	B-18
IPT 00 A...PH_ _ Front Panel Mount Square Flange Receptacle with Backshell and PG Cable Gland.....	B-20
IPT 00 A...PHM_ _ Front Panel Mount Square Flange Receptacle with PHM Backshell and Sleeves to Accommodate Various Cable Sizes.....	B-22
IPT 00 A...SR Front Panel Mount Square Flange Receptacle with Backshell, Bushing and Cable Clamp.....	B-24
IPT 00 E Front Panel Mount Square Flange Receptacle with General Duty Backshell.....	B-26
IPT 00 E...SR Front Panel Mount Square Flange Receptacle with Backshell, Cable Clamp and Bushing.....	B-28
IPT 00 G Front Panel Mount Square Flange Receptacle with Shrink Boot Backshell.....	B-30
IPT 00 J Front Panel Mount Square Flange Receptacle with Long Backshell and Cable Clamp.....	B-32
IPT 00 M Front Panel Mount Square Flange Receptacle with Backshell for EMI Shield Termination and Shrink Boot.....	B-34
IPT 00 W Front Panel Mount Square Flange Receptacle with Long Backshell, Metal Sleeve and Gland Seal.....	B-36
IPT 01 A In-Line Receptacle Connector with General Duty Backshell.....	B-38
IPT 01 A...PG_ _ In-Line Receptacle Connector with Backshell for Attachment of PG Cable Gland.....	B-40

Glenair Commital IPT Series Product Index



IPT
Bayonet Lock
Connectors

IPT 01 A...PH__ In-Line Receptacle Connector with Backshell and Plastic PG Cable Gland.....	B-42
IPT 01 A...PHM__ In-Line Receptacle Connector with PHM Backshell and Sleeves to Accommodate Various Cable Sizes.....	B-44
IPT 01 A...SR In-Line Receptacle Connector with Backshell, Cable Clamp and Bushing.....	B-46
IPT 01 E In-Line Receptacle Connector with General Duty Backshell.....	B-48
IPT 01 E...SR In-Line Receptacle Connector with Backshell Cable Clamp and Bushing.....	B-50
IPT 01 G In-Line Receptacle Connector with Shrink Boot Backshell.....	B-52
IPT 01 J In-Line Receptacle Connector with Backshell, Cable Clamp and Sleeve.....	B-54
IPT 01 W In-Line Receptacle Connector with Long Backshell, Metal Sleeve and Gland Seal.....	B-56
IPT 01 M In-Line Receptacle Connector with Backshell for EMI Shield Termination and Shrink Boot.....	B-58
IPT 02 PP Rear Box Mount Square Flange Receptacle, Through Bulkhead.....	B-60
IPT 02 A and IPT 02 E Rear Box Mount Square Flange Receptacle.....	B-62
IPT 02 Y Rear Box Mount Square Flange Receptacle with Printed Circuit Board Terminations.....	B-64
IPT 06 A...N0 Straight Plug Connector with Accessory Threads.....	B-66
IPT 06 A...N0 AT Straight Plug Connector with Accessory Threads and Arctic Coupling Nut.....	B-68
IPT 06 A Straight Plug Connector with Backshell to Accommodate MS3057 Cable Clamp (<i>clamp not included</i>).....	B-70
IPT 06 A...PG__ Straight Plug Connector with Backshell for Use with PG Glands (<i>glands not included</i>).....	B-72
IPT 06 A...PH__ Straight Plug Connector with Backshell and PG Cable Gland.....	B-74
IPT 06 A...PHM__ Straight Plug Connector with PHM Backshell and Sleeves to Accommodate Various Cable Sizes.....	B-76
IPT 06 A...PHM__EMI67 Straight Plug Connector with Backshell for for EMI Shield Termination.....	B-78
IPT 06 A ...SR Straight Plug Connector with Backshell, Cable Clamp and Bushing.....	B-80
IPT 06 E Straight Plug Connector with General Duty Backshell.....	B-82
IPT 06 E...SR Straight Plug Connector with Backshell, Cable Clamp and Bushing.....	B-84
IPT 06 G Straight Plug Connector with Backshell for Heat Shrink Boot.....	B-86



Glenair Commital IPT Series Product Index

Series IPT Continued

IPT 06 J Straight Plug Connector with Long Backshell, Metal Sleeve, Cable Sealing Gland and Cable Clamp.....	B-88
IPT 06 M Straight Plug Connector with Backshell Suitable for EMI Shield Termination and Heat Shrink Boot.....	B-90
IPT 06 W Straight Plug Connector with Long Backshell and Cable Sealing Gland.....	B-92
IPT 07 A Rear Box Mount Jam Nut Receptacle Connector.....	B-94
IPT 07 E Rear Panel Mount Jam Nut Receptacle Connector with Backshell.....	B-96
IPT 07 E...SR Rear Panel Mount Jam Nut Receptacle Connector and Backshell with Cable Clamp and Bushing.....	B-98
IPT 07 Y Rear Box Mount Jam Nut Receptacle with Printed Circuit Board Contacts.....	B-100
IPT 08 AM Plug Connector with 90° EMI Shield Termination Backshell Suitable for MS3057 Cable Clamp (<i>clamp not included</i>).....	B-102
IPT 08 A...PHM__ Plug Connector with 90° PHM Backshell and Sleeves to Accommodate Various Cable Sizes.....	B-104
IPT 08 EM Plug Connector with 90° Backshell for EMI Shield Termination with MS3057 Cable Clamp.....	B-106
IPT 08 M Plug Connector with 90° Backshell for Shield Termination and Shrink Boot.....	B-108
IPT 26 A Box Mount Rear Flange Plug Connector.....	B-110

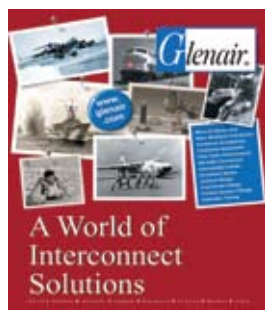
Series IPT SE and IPT Connector Accessories and Tools

IPT Bayonet Lock Tools and Accessories Overview.....	C-1
IT 3057-A Cable Clamp.....	C-2
IT 3057-C Cable Clamp.....	C-3
IT 3420 and IT 3420-A Neoprene Sleeve.....	C-4
IPT 3180-C and IPT 3180-CF Protective Plug Covers.....	C-5
IPT 3181-C and IPT 3181-CF Protective Receptacle Covers.....	C-6
IPT 3181-N and IPT 3181-NF Protective Receptacle Covers.....	C-7
IT 90376-R and IT 90376-Y Protective Receptacle and Plug Plastic Caps.....	C-8
IPT 3115 and IPT 3115A Dummy Stowage Receptacles.....	C-9
10-101949 and 10-101949-S Square Flange Panel Mount Receptacle Sealing Gaskets.....	C-10
10-101033-11 and 10-101033-12 Sealing Plug for Wire Sealing Grommet.....	C-11
IPT Series Tools.....	C-12

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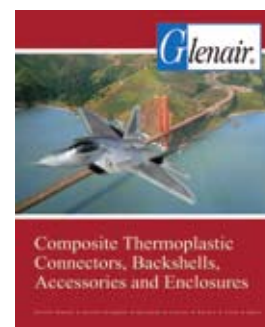
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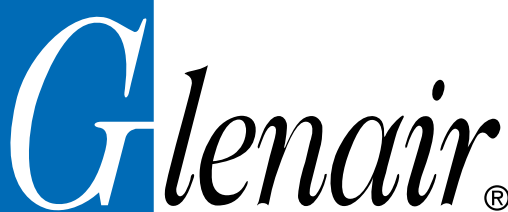


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