

SHV SERIES



- 5 KV voltage rating.
- Non-constant impedance.
- Quick connect & disconnect bayonet coupling design.
- Outer contact ground connection is maintained through the center contact mating cycle.
- Recessed center contacts prevent shock hazards while unmated.

SPECIFICATIONS

MATERIAL

Body: Brass
 Crimp Sleeves: Commercial Bronze Alloy
 Male Center Contacts: Brass
 Female Center Contacts: Beryllium Copper
 Outer Contacts: Beryllium Copper
 Insulators: Teflon® or Rexolite®
 Gaskets & Seals: Silicone Rubber

FINISHES

Body: Nickel
 Center Contacts: Gold

ELECTRICAL

Impedance: Non-Constant
 Voltage Rating: Operating: 3500 VRMS
 Test: 5000 VRMS
 Insulation Resistance: 10⁶ Megaohms

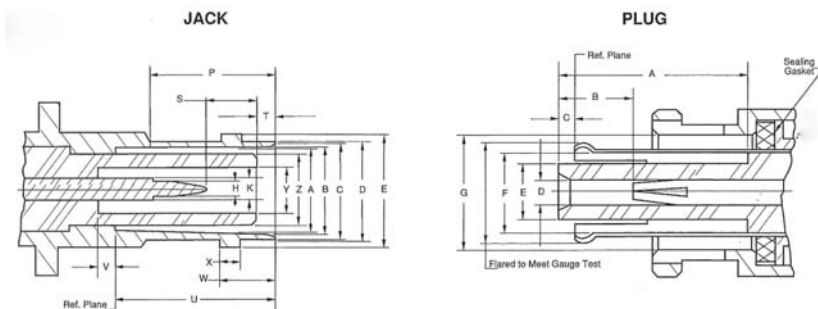
MECHANICAL

Mating: 2 Stud Bayonet Coupling

ENVIRONMENTAL

Temperature Range:
 Teflon® -65° C to +165° C
 Rexolite® -55° C to +85° C
 Vibration: MIL-STD-202, Method 204, Condition A
 Shock: MIL-STD-202, Method 213, Condition I
 Corrosion: MIL-STD-202, Method 101, Condition B

INTERFACE DIMENSIONS



Jack

Dim Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.319	.321	8.10	8.15
B	.328	.333	8.33	8.46
C	.347	.357	8.81	9.07
D	.378	.382	9.60	9.70
E	.432	.436	10.97	11.07
H	.052	.054	1.32	1.37
K	.081	.083	2.06	2.11
P	.427		10.85	
S	.188	.208	4.78	5.28
T	.061	.078	1.55	1.98
U	.628	.630	15.90	16.00
V	.064	.086	1.63	2.18
W	.204	.208	5.18	5.28
X	.075	.081	1.90	2.06
Y	.190	.196	4.83	4.98
Z		.260		6.60

Plug

Dim Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.628	.632	15.95	16.05
B	.238	.262	6.05	6.65
C	.046	.064	1.17	1.63
D	.082		2.08	
E	.180	.186	4.57	4.72
F	.264		6.71	
G	.385	.390	9.78	9.91

BULKHEAD RECEPTACLES

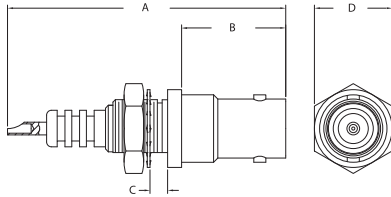


FIGURE 1

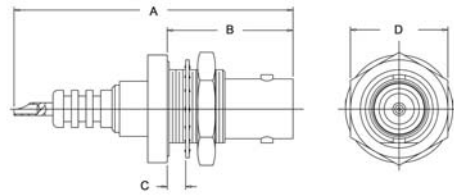


FIGURE 2

ADAPTERS - WITHIN SERIES

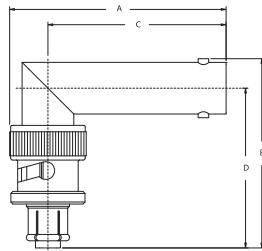


FIGURE 3

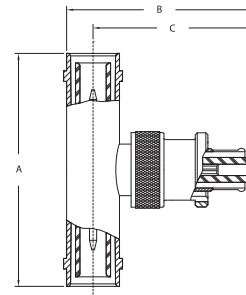


FIGURE 4

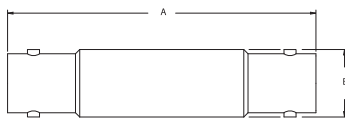


FIGURE 5

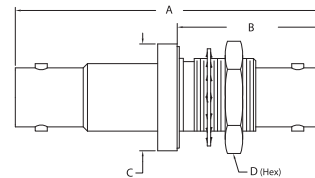


FIGURE 6

Item Number	Military PN	Product Description	Gender	Finish	Dimensions				Cable Group	Cable Procedure	Crimp Die	Mounting Hole	Figure #
					A	B	C	D					
1704-1 QD		Receptacle, Bulkhd, Front Mt, Teflon Insl	F	Nickel	1.790	0.670	0.182	0.500		SOLDER		H	1
1704-3-9		Receptacle, Bulkhd, Front Mt	F	Nickel	1.780	0.670	0.182	0.500		SOLDER			1
1704-1-11 M06		Recept, Bulkhd, Front Mt, Rexolite Insl	F	Nickel	1.780	0.670	0.182	0.500		SOLDER		H	1
1704-2		Receptacle, Bulkhd, Rear Mt	F	Nickel	1.790	0.810	0.235	0.630		SOLDER		X	2
1709-12 M06		Within Series Adapter, Rt Angle	F-M	Nickel	1.590	1.390	1.310	1.170					3
1709-3		Within Series Adapter, Tee	M-F-M	Nickel	1.710	1.370	1.170						4
1709-5		Within Series Adapter	F-F	Nickel	1.990	0.440							5
1709-1		Within Series Adapter, Bulkhd, Teflon Insl	M-M	Nickel	1.990	0.950	0.690	0.630				X	6
1709-1-11		Within Series Adapter, Bulkhd, Rexolite Insl	M-M	Nickel	1.990	0.950	0.690	0.630				X	6
1709-2		Within Series Adapter, Bulkhd, Hermetic	F-F	Nickel	2.250	1.150	0.690	0.630				X	6

SHV SERIES

PLUGS - K-GRIP, JR.

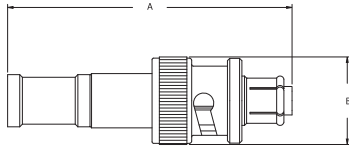


FIGURE 7

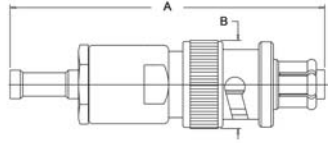


FIGURE 8

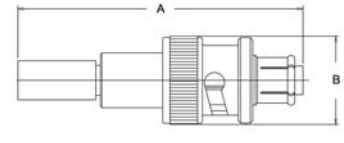


FIGURE 9

PLUG - CONVENTIONAL

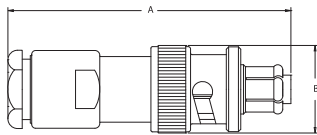


FIGURE 10

BULKHEAD JACK - K-GRIP, JR.

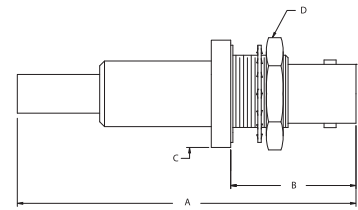


FIGURE 11

PANEL RECEPTACLE

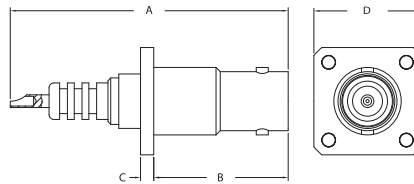


FIGURE 12

Item Number	Military PN	Product Description	Gender	Finish	A	Dimensions B	C	D	Cable Group	Cable Procedure	Crimp Die	Mounting Hole	Figure #
1705-1		Plug, Weatherproof Crimp, Teflon Insl	M	Nickel	1.830	0.560			G1	CP-441	KTH-2062		7
1705-2		Plug, Weatherproof Crimp, Teflon Insl	M	Nickel	1.750	0.560			D	CP-441	KTH-2061		7
1705-2-1		Plug, Weatherproof Crimp, Rexolite Insl	M	Nickel	1.730	0.560			D	CP-441	KTH-2061		7
1705-21-9		Plug, Weatherproof Crimp, 6KV	M	Nickel	1.710	0.560			G1	CP-441	KTH-2062		7
1705-4		Plug, Weatherproof Crimp	M	Nickel	2.140	0.630			N1	CP-457	KTH-1079		7
1705-3		Plug, Weatherproof Crimp	M	Nickel	2.010	0.560			B1	CP-447	KTH-2071		8
1705-16 M06		Plug, Crimp, Teflon Insl	M	Nickel	1.790	0.560			40	CP-441	KTH-2001		9
1705-16-11		Plug, Crimp, Rexolite Insl	M	Nickel	1.770	0.560			40	CP-441	KTH-2001		9
1705-14		Plug, Conventional	M	Nickel	1.810	0.560			G1	CP-1001.3			10
1702-1		Jack, Bulkhd, Rear Mt	F	Nickel	2.200	0.810	0.690	0.630	G1	CP-441	KTH-2062	X	11
1702-2		Jack, Bulkhd, Rear Mt	F	Nickel	2.200	0.810	0.690	0.630	D	CP-441	KTH-2061	X	11
1702-4-11		Jack, Bulkhd, Rear Mt	F	Nickel	2.200	0.810	0.690	0.630	40	CP-441	KTH-2001	X	11
1707-1		Receptacle, Panel	M	Nickel	1.790	0.870	0.090	0.690		SOLDER			12