799-183

Piggyback EMI Banding Backshell, Panel Mount

- Fits Series 792 connectors
- Band-Master® shield termination
- Top entry

799-183

This accessory fits Series 792 panel mount connectors:
792-003, 792-004, 792-013, 792-014

799-183 piggyback backshell fits panel mount Series 792 connectors. Terminate cable shield to backshell with BandMaster ATS band strap. Aluminum or stainless steel with stainless steel screws.

BAND OPTIONS

Terminate cable braid to backshell with optional Micro band strap and banding tool. Stainless steel band strap is .12 (3.0) wide. Pre-coiled bands are passivated stainless steel. ***Micro Slim*** bands have reduced thickness for weight reduction. ***Micro-Max*** bands are high-tension for lower-resistivity termination.


Band Type	Hand Tool	Pneumatic Tool
Micro	601-101	601-107
Micro Slim	601-122	601-123
Micro-Max	601-129	601-130

HOW TO ORDER

Sample Part Number	799-183T	M	D	07	M	14

Basic Part Number

799-183T (T) Top Entry

Material / Finish

M	Alum / Electroless Nickel
MT	Alum / Nickel - PTFE
N	Alum / Olive Drab Cadmium
TZ	Alum / Tin-Zinc
ZR	Alum / Black Zinc-Nickel
Z1	Stainless Steel / Passivated

Shell Size

A B C D E F

Entry Size

Entry Size	E	Shell Size
01	.360 (9.1)	A thru E
02	.405 (10.3)	A thru E
03	.555 (14.1)	B thru E
04	.655 (16.6)	B thru E
05	.780 (19.8)	B thru F
06	.920 (23.4)	C thru F
07	1.155 (29.3)	C thru F
08	1.300 (33.0)	D thru F
09	1.415 (35.9)	D thru F
10	1.530 (38.9)	D thru F
11	1.705 (43.3)	E thru F
12	1.600 (40.6)	E thru F
13	1.905 (48.4)	F

ENTRY SIZE

Band

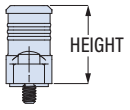
M	Micro Band Included
J	Micro Slim Band Included
L	Micro-Max Band Included

Height Code

Code	Height	Shell Size (T) Top
09	.56 (14.2)	A thru F
11	.69 (17.5)	A thru F
14	.88 (22.4)	A thru F
16	1.00 (25.4)	A thru F
19	1.19 (30.2)	A thru F
22	1.38 (34.9)	A thru F
26	1.63 (41.3)	A thru F
30	1.88 (47.6)	A thru F

Height code in 1/16 increments.

(T) TOP ENTRY

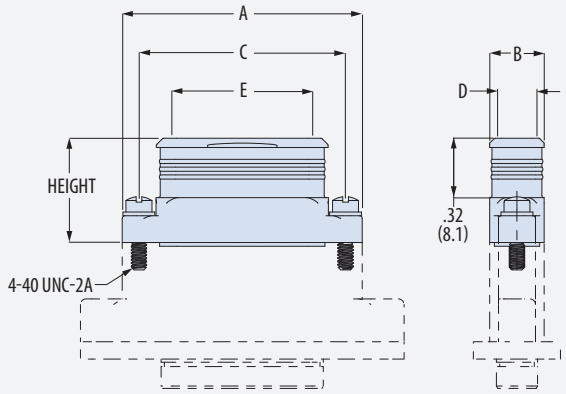


799-183

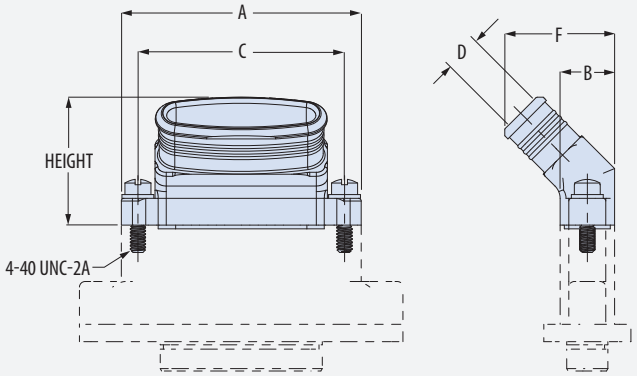
Piggyback EMI Banding Backshell, Panel Mount

- Elliptical entry
- Band-Master® shield termination
- Top and 45° entry

799-183T TOP ENTRY



799-183E 45° ENTRY



Shell Size	A Max		B Max		C		D		F		Available Entries
	in	mm	in	mm	in	mm	in	mm	in	mm	
A	1.320	33.5	.475	12.1	1.075	27.3	.360	9.1	.760	19.3	01 thru 02
B	1.695	43.1	.475	12.1	1.450	36.8	.360	9.1	.760	19.3	01 thru 05
C	2.070	52.6	.475	12.1	1.825	46.4	.360	9.1	.760	19.3	01 thru 07
D	2.445	62.1	.475	12.1	2.200	55.9	.360	9.1	.760	19.3	01 thru 10
E	2.820	71.6	.475	12.1	2.575	65.4	.360	9.1	.760	19.3	01 thru 13
F	2.820	71.6	.850	21.6	2.575	65.4	.730	18.5	1.130	28.7	05 thru 13

Entry Size	E		Available Sizes
	in	mm	
01	.360	9.1	A thru E
02	.405	10.3	A thru E
03	.555	14.1	B thru E
04	.655	16.6	B thru E
05	.780	19.8	B thru F
06	.920	23.4	C thru F
07	1.155	29.3	C thru F
08	1.300	33.0	D thru F
09	1.415	35.9	D thru F
10	1.530	38.9	D thru F
11	1.705	43.3	E thru F
12	1.600	40.6	E thru F
13	1.905	48.4	F

Series 792 Insert Arrangements

SERIES 792 INSERT ARRANGEMENTS

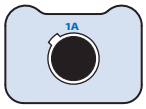
Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

Grounded Insert Arrangements

Series 792 connectors are are available with thermoplastic inserts ("A-1W1" for example), or with all-aluminum construction for grounding datalink contacts together with the connector shell ("A-1G1").

⚠ Cavity Numbers

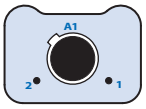
Cavity numbers shown are for mating face of plug (socket) connector. Receptacle (pin) numbers are reversed.



1 #8

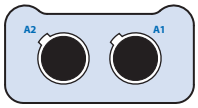
A-1W1

A-1G1 Grounded



1 #8, 2 #23

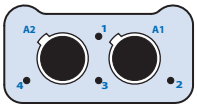
A-3W1



2 #8

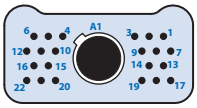
B-2W2

B-2G2 Grounded



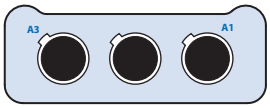
2 #8, 4 #23

B-6W2



1 #8, 22 #23

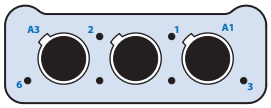
B-23W1



3 #8

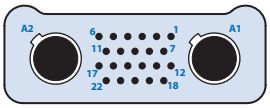
C-3W3

C-3G3 Grounded



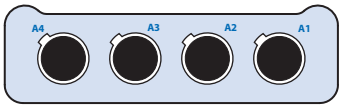
3 #8, 6 #23

C-9W3



2 #8, 22 #23

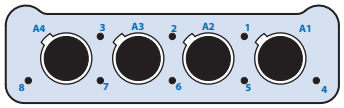
C-24W2



4 #8

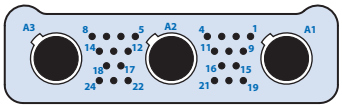
D-4W4

D-4G4 Grounded



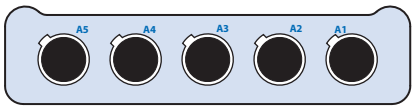
4 #8, 8 #23

D-12W4



3 #8, 24 #23

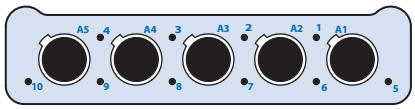
D-27W3



5 #8

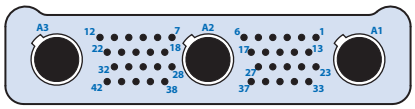
E-5W5

E-5G5 Grounded



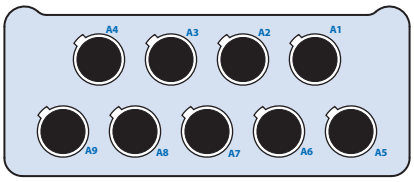
5 #8, 10 #23

E-15W5



3 #8, 42 #23

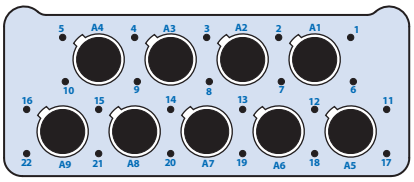
E-45W3



9 #8

F-9W9

F-9G9 Grounded



9 #8, 22 #23

F-31W9

Series 792 Material and Finish Options

The Series 792 High-Speed connector is available in five preferred finishes: electroless nickel, nickel-PTFE, tin-zinc, cadmium, and zinc-nickel.

Additional material and finish options are available. Replace the preferred plating code with the alternate code from the table below.

TIN-ZINC PLATING

The United States Department of Defense (DOD) has mandated the elimination of cadmium from DOD weapons systems because of toxicity concerns. The European Union has also restricted the use of cadmium on electronics equipment (RoHS). Tin-Zinc is a RoHS cadmium-free sacrificial finish that offers high conductivity and shielding performance, corrosion resistance, solderability, and proven compatibility with legacy cadmium and zinc-nickel finishes. Tin-Zinc is DLA-qualified and RoHS compliant.

SERIES 792 SHELL FINISH OPTIONS

	Electroless Nickel	Nickel-PTFE	Tin-Zinc	Olive Drab Cadmium	Black Zinc-Nickel
Glenair Code	M	MT	TZ	N	ZR
Corrosion Resistance	Fair	Excellent	Excellent	Excellent	Excellent
Salt Spray Hours	48	500	500	500	500
Conductivity	Excellent	Excellent	Very Good	Very Good	Very Good
RoHS Compliant[1]	Yes	Yes	Yes	No	Yes

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.

ALTERNATE SHELL MATERIAL AND FINISH CODES

Code	Shell Material	Shell Finish	Finish Specification	Salt Spray Hrs.	Electrical Conductivity	RoHS[1]
C	Alum	Anodize, Black	MIL-PRF-8625	48	Non-Conductive	✓
E[2]	Alum	Chem Film, Gold	MIL-DTL-5541	168	Conductive	
J	Alum	Cadmium, Yellow	AMS-QQ-P-416	500	Conductive	
Z1	SST	Passivate	AMS2700	500	Conductive	✓
Z2	Alum	Gold	MIL-DTL-45204	48	Conductive	✓
ZM	SST	Electroless Nickel	AMS-C-26074	500	Conductive	✓
ZMT	SST	Nickel-PTFE	AMS2454	1000	Conductive	✓
ZW	SST	Cadmium, Olive Drab	AMS-QQ-P-416	500	Conductive	
ZZR	SST	Zinc-Nickel, Black	ASTM B841	500	Conductive	✓

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.
[2] Maximum temperature = +125°C

Specifications

Construction

Contacts	Copper alloy, gold over nickel finish
Hood, socket contact	Stainless steel, passivated
Clip, contact retaining	Beryllium copper
Clip, insert retaining	Beryllium copper
Insulators	High performance thermoplastic
Grommet and face seal	Fluorosilicone/silicone blend
Shell	Aluminum
O-ring	Fluorosilicone
EMI spring	Beryllium copper, electroless nickel plated
EMI shroud (90° PCB)	Aluminum
Encapsulant (PCB)	Epoxy
Hardware	Stainless steel, passivated

Ratings

Voltage (DWV)	Size 23 contacts: 750 VAC Datalink contact outer body to shell: 1800 VAC (ungrounded insert) Quadrax and Ochito inner contact: 500 VAC
Current Rating	Size 23 contacts: 5 amps
Operating Temperature	-65 to +150 °C
Durability	500 mating cycles
Datalink differential Impedance (nom.)	Quadrax: 100 ohms Ochito white, red: 100 ohms Ochito blue: 90 ohms

Product Specifications

Description	Requirement	Procedure
Contact Resistance	SAE AS39029 Table V	EIA-364-06
Low Level Contact Resistance	SAE AS39029 Table IV	EIA-364-23
Insulation Resistance	5000 megohms minimum	EIA-364-21
Dielectric Withstanding Voltage	#23 contacts 750 volts	EIA-364-20
Current Rating	#23: 5A	EIA-364-70 Method 1
Shell-to-shell Resistance	2.5 millivolt drop maximum (connector with EMI spring)	EIA-364-83
Shielding Effectiveness	100 – 1000MHz: >75 dB , 1 – 4GHz: >60dB, 4 – 10GHz: >40dB	EIA-364-66
Vibration, Sine	20 g	EIA-364-28 Test Condition IV
Vibration, Random	16.91 g rms	EIA-364-28 Test Condition VI Letter J
Mechanical Shock	300 g	EIA-364-27 Condition D
Thermal Shock	-65 to +150 °C	EIA-364-32 Test Condition IV,
Humidity	10 Day, +25 to +65° C	EIA-364-31 Method IV, Step 7b vibration deleted.
Mechanical Durability	500 mating cycles	EIA-364-09
Salt Spray	Plating code M: 48 hours, MT, ZR, N, TZ: 500 hours	EIA-364-26
Solderability, PC Tail Contacts	95% solder coverage. Smooth, bright and even finish.	EIA-364-52 Category 3, 8 hours steam aging
Resistance To Soldering Heat (PCB)	260° C, 10 seconds	EIA-364-56
Fluid Immersion	No damage from immersion in various fuels and oils.	EIA-364-10
Contact Retention	MIL-DTL-38999 Table XVIII	EIA-364-29
Contact Separation Force	SAE AS39029 Table 9	EIA-364-37
Magnetic Permeability	2 µ maximum.	EIA-364-54

Series 792 Polarization Keying Option

OPTIONAL POLARIZATION KEYS

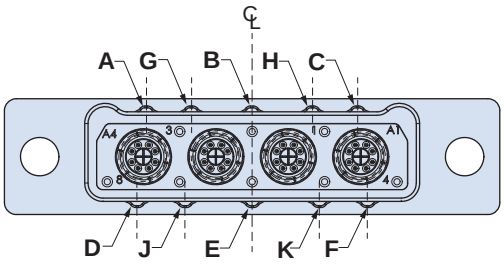
To prevent mis-mating of identical shell size and insert arrangement connectors

Series 792 connectors are available with an integral polarizing key. Keyed plug connectors have a raised boss on the shell. Receptacles have corresponding keyway. Ordering is simple—just add the keying position letter designator to the end of the part number.

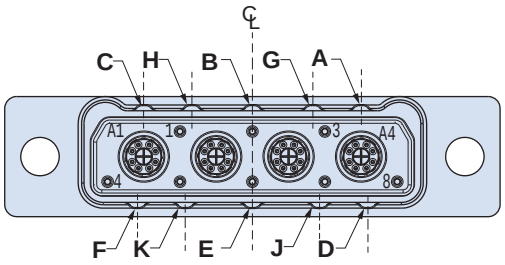
Note: keyed receptacles will mate with unkeyed plugs.

HOW TO ORDER		
Step 1	**Create a Series 792 connector part number:**	**792-001SD-4G4MS**
Step 2	**Add the keying position letter designator A, B, C, D, E, F, G, H, J, or K to the part number.**	**792-001SD-4G4MSB**

MOD-1104 POLARIZING KEY LOCATIONS
PLUG CONNECTOR MATING FACE



MOD-1104 POLARIZING KEY LOCATIONS
RECEPTACLE CONNECTOR MATING FACE



KEY LOCATIONS

Key Position Offset From Vertical Centerline

Shell Size	Position A		Position B		Position C		Position D		Position E		Position F		Position G		Position H		Position J		Position K	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.025	0.64	.000	.00	.025	0.64	.100	2.54	.000	.00	.100	2.54	POSITIONS G, H, J AND K ARE NOT AVAILABLE FOR SHELL SIZES A, B AND C							
B	.200	2.29	.000	.00	.200	2.29	.325	8.26	.000	.00	.325	8.26								
C	.375	9.53	.000	.00	.375	9.53	.500	12.70	.000	.00	.500	12.70								
D	.550	13.97	.000	.00	.550	13.97	.600	15.24	.000	.00	.600	15.24	.315	8.00	.315	8.00	.350	8.89	.350	8.89
E	.700	17.78	.000	.00	.700	17.78	.750	19.05	.000	.00	.750	19.05	.315	8.00	.315	8.00	.350	8.89	.350	8.89
F	.700	17.78	.000	.00	.700	17.78	.750	19.05	.000	.00	.750	19.05	.315	8.00	.315	8.00	.350	8.89	.350	8.89