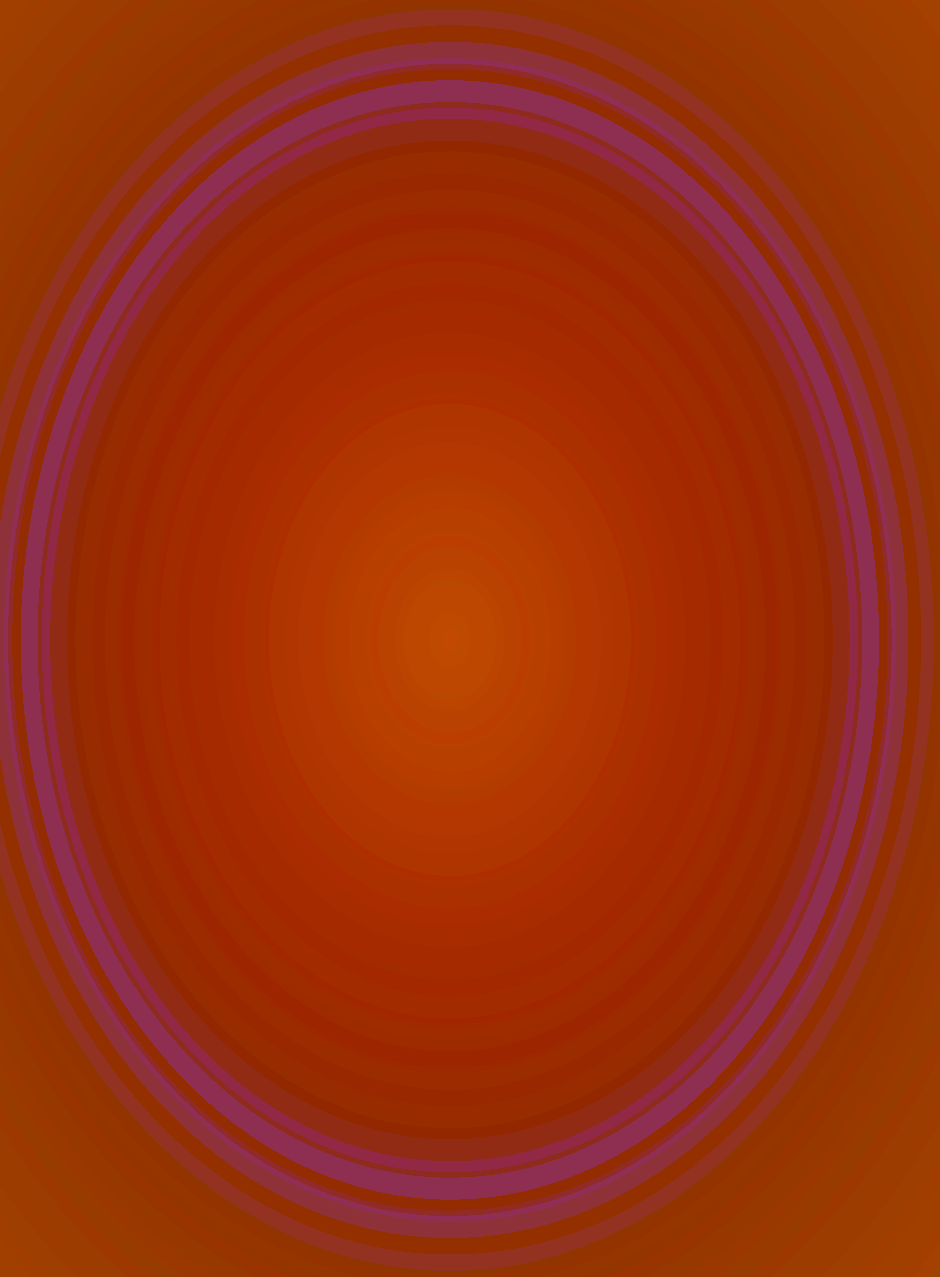
DSX SERIES

SAE AS81659, Arinc 404



INTRODUCTION

DSX-ARINC 404 SHELL TYPE B

DSX-EMI/RFI

DSX-ARINC 404 SHELL TYPE A

INTRODUCTION

The Radiall DSX rack and panel series are multipin rectangular connectors used to electrically interface avionics equipment to equipment rack. Usually the plug is installed on the avionics rack and the receptacle on the equipment box. The mated locking mechanism is provided for the equipment and cabinet and is not a part of the connector pair.

These connectors are widely used in applications such as:

- Commercial/military aircraft and helicopters
- Radar systems
- Power circuits
- In-flight electronic instrumentation
- Flight simulators, etc.

The following versions are offered:

- **DSX-SAE AS81659:** connectors conforming to SAE AS81659 including connectors listed on the QPL81659
- **DSX-ARINC 404 Shell Type B:** connectors conforming to ARINC 404 shell type B-polarized shells
- **DSX-ARINC 404 Shell Type A:** connectors conforming to ARINC 404 shell type A-single shell (without polarization)
- **DSX-F:** connectors for front release front removable contacts (receptacle only)
- **DSX-DATA BUS:** connectors for interconnection of multiplexed digital links
- **DSX-EMI/RFI:** shielded connectors

DSX-SAE AS81659

These connectors fully conform to SAE AS81659 specifications and are listed on the associated Qualified Product List. They are available in four shell sizes (1, 2, 3 and 4) which can respectively accept 1, 2, 3 and 4 inserts. Inserts are offered in various contact arrangements accommodating rear release rear removable signal (size 22), power (sizes 5, 12, 16 and 20HD), coaxial (sizes 1, 3, 5, 7, 9 and 15), concentric twinax (sizes 5 and 9), triax (sizes 5 and 9) contacts in crimp, wire wrap or PC tail termination. Radiall's 29504 fiber optic termini are also available. Both environmental and non-environmental connectors are offered.

Mismating is prevented by a polarizing system which provides 216 polarizing positions. For military part numbers, applicable polarizing positions range goes from 00 through 99 only.

DSX-ARINC 404 SHELL TYPE B

Arinc 404 shell type B are the commercial version. Here are the commercial features compared to the military version:

- They use both size 20HD and size 20 contacts.
- They are non-environmental. Inserts are fitted with a rubber separator on the back of their wiring which does not provide sealing but provides wire protection.
- Removable size 5 and 9 coaxial contacts are not interchangeable with those of the military type.
- Insert retention plate is yellow anodized instead of blue anodized on the military version.

DSX-ARINC 404 SHELL TYPE A

DSX-ARINC 404 shell type A connectors are only available in shell size 1. They use ARINC 404 shell type B inserts; only one insert can be installed in the connector shell. Shell type A has no polarization system, mismating is prevented by keystone shaped shells. DSX-ARINC 404 shell type A connectors cannot be fitted with any backshell.

Introduction

DSX-F

DSX-F receptacle connectors are available in four shell sizes (1, 2, 3 and 4) and are designed to be fitted with front release front removable contacts offered in pc tail and wire wrap termination. Inserts are offered with or without an interfacial seal (in both cases they are not and are fitted with a separator) and are available in the following contact arrangements: 106, 67, 57, 45, 40, 33C4, 26.

DSX-F connectors are fully intermateable with connectors of the ARINC 404 shell type B and SAE AS81659 versions.

DSX-DATA BUS

These connectors have been designed to ensure the interconnection of multiplexed digital links used in military equipment.

DSX-EMI/RFI

In response to the continuing development of electronic systems used in ever harsher environments, these connectors have been designed to improve the shielding effectiveness against electromagnetic and radio frequency interferences (EMI/RFI) as well as electromagnetic pulses (EMP).

APPLICATIONS

These connectors are used to form the electrical interface between avionics equipment to rack equipment.

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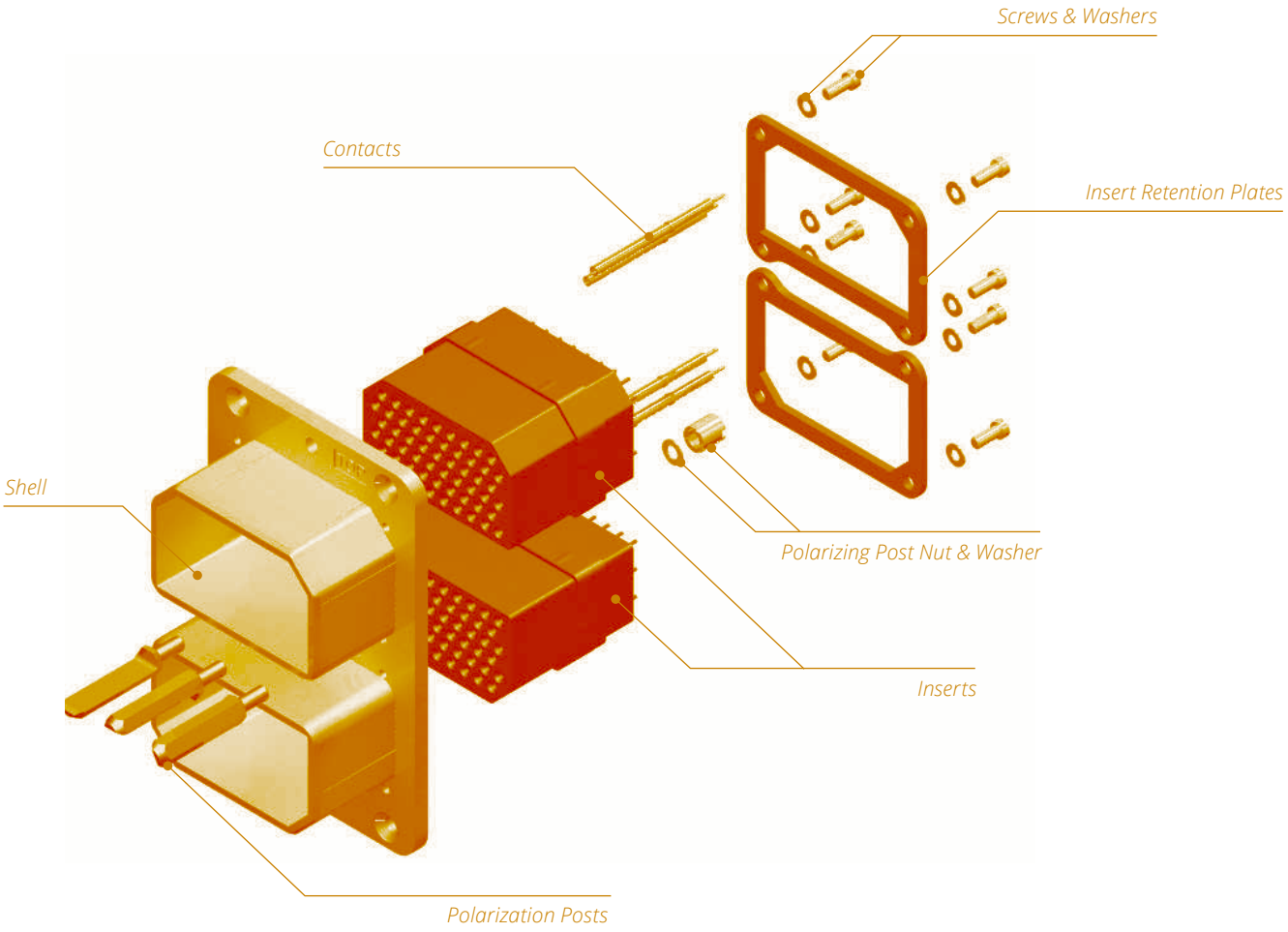
DSX-SAE AS81659

PRODUCT OVERVIEW

Detailed view of the various parts of this series connector.



DSX-SAE AS81659

TECHNICAL CHARACTERISTICS

ELECTRICAL

- **Magnetic Permeability:** <2 µ
- **Insulation Resistance:** >5,000 MΩ
- **Dielectric Withstanding Voltage:** See Contact Arrangement on pages 7-8 to 7-10
- **Contact Resistance:** According to Requirements of SAE AS39029

COAX CONTACTS ELECTRICAL CHARACTERISTICS

- **Nominal Impedance:** 50 Ω VSWR
  - Sizes 5, 7 and 9: 1.3 from DC to 1,500 MHz
  - Sizes 1 and 3: 1.3 from DC to 5,000 MHz

CONTACT SIZE	AWG	CROSS SECTION MM2 (SQ.IN)	MIN. OUTSIDE DIA. MM (INCH)	MAX. OUTSIDE DIA. MM (INCH)	MAX CURRENT (A)
22	22	0.38 (0.015)	0.76 (0.030)	1.4 (0.055)	5
	24	0.21 (0.008)			3
	26	0.14 (0.006)			2
20HD	20	0.60 (0.024)	1 (0.039)	1.8 (0.071)	7.5
	22	0.38 (0.015)			5
	24	0.21 (0.008)			3
16	16	1.34 (0.053)	1.70 (0.067)	2.6 (0.102)	13
	18	0.93 (0.037)			10
	20	0.60 (0.024)			7.5
12	12	3.18 (0.125)	2.4 (0.094)	3.4 (0.134)	23
	14	1.91 (0.075)			17
	16	1.34 (0.052)			13
For Cavity 5	8	9.00 (0.354)	3.4 (0.134)	6.48 (0.255)	46
	10	5.00 (0.197)			33
	12	3.18 (0.125)			23
	14	1.91 (0.075)			17

MECHANICAL & ENVIRONMENTAL

- **Temperature Range:** -65 °C (-85 °F)/+125 °C (+257 °F)
- **Temperature Life:** 1,000 hours at +125 °C (+257 °F)
- **Salt Spray:** EIA 364-26 (MIL-STD-1344A Method 1001.1 Test Condition B (48 hours))
- **Altitude Moisture Injection:** Insulation Resistance > 100 M Ω altitude 50,000 ft
- **Fluid Resistance:** Resistance to 20 hours Immersion in Fluids MIL PRF 5606 & MIL PRF 23699
- **Durability:** 500 Matings and Unmating Cycles
- **Vibration:** EIA 364-28 (MIL-STD-1344A Method 2005 Test Condition IV (20 g–10-2,000 Hz))
- **Shock:** EIA 364-27 (MIL-STD-1344A Method 2004 Test Condition A (50 g -11 ms–half sine))
- **Mating Force:** < 200 N (45 lbs) per Insert
- **Insert Retention Force:** > 534 N (120 lbs) in each Direction
- **Contact Retention Force:** Max Axial Displacement = 0.3 mm (0.012 in.)

CONTACT SIZE	22	20HD	16	12
Axial Load N (lbs)	66 N (15)	89 N (20)	111 N (25)	133.5 N (30)

DSX-SAE AS81659

MATERIALS

DESCRIPTION	MATERIAL	PLATING
Shell	Aluminium Alloy	Cadmium Yellow Chromate [1]
Insert	Thermosetting Resin	-
Metallic Insert	Aluminium Alloy	Cadmium Clear Chromate [1]
Interfacial Seal & Grommet	Silicone Rubber	-
Retention Clip	Copper Alloy	-
Contact	Copper Alloy	Gold Over Nickel Under Plate
Insert Retention Plate	Aluminium Alloy	Blue Snodised [1]
Polarizing Posts	Stainless Steel	-
Polarizing Keys	Zinc Alloy	Cadmium Yellow Chromate
Polarizing Keys Retention Plate	Aluminium Alloy	Cadmium Yellow Chromate [1]
Screws, Washers, Clinch-Nuts	- lurimated(Sit)0.5 liconRiube r	

MASSES (ESTIMATES)

DSX-SAE AS81659

HOW TO ORDER CONNECTORS

DSX

SERIES PREFIX

CLASS
N: Non-environmental (without grommet and interfacial seal)
E: Environmental (with grommet and interfacial seal)
T: Connector with interfacial seal on insert with protruding contacts only

SHELL SIZE
1: One gang shell
2: Two gang shell
3: Three gang shell
4: Four gang shell

SHELL TYPE
R: Receptacle shell
P: Plug shell

GROUNDING EMI/RFI
G: With grounding spring (only for plug connector)

TERMINATION STYLE [5]
X: Without contacts (for crimp contacts only)
S: Crimp [1]
V: Wire wrap two levels [4]
W: Wire wrap three levels [4]
Y: PC tail contact [4]

CONTACT ARRANGEMENT [2 & 5]
See available contact arrangements on pages 7-8 to 7-10

CONTACT TYPE [5]
S: Socket
P: Pin

GANG B

GANG C

GANG D

MODIFICATION CODE
See pages 7-11 to 7-16 for selection.
Modification code will help in choosing the appropriate plating for your application.

POLARIZATION CODE [3]
See pages 7-17 to 7-20 for selection.

Notes

Important Note: If you want to get connectors marked with the military part number (i.e. M81659/66A2-0083) you must order by using the military part number. Radiall part numbers qualified to SAE AS81659 versus military part numbers are listed from pages 7-36 to 7-40.

1. For reduced crimp barrel, thermocouple or fiber optic contacts, use code X and order contact separately.
2. For contact arrangements which include coax or quadrax contacts, use termination code X. Quadrax and coax contacts must be ordered separately.
3. Without polarization code the connector is delivered with the polarizing system unassembled. With polarization code 00: the connector is delivered without polarizing system. With polarization code from 01 to 216: the connector is delivered with polarization hardware assembled as defined by code. Polarization codes for connector qualified to SAE AS81659 are ranging from 00 to 99 only.
4. PC tail and wire wrap contacts must be used only with non-environmental version. PC tail and wire wrap contacts are delivered installed. For 67, 32C4 and 33C4 contact arrangements, size 16 contacts are delivered not installed and in crimp termination.
5. Gang A

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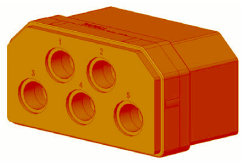
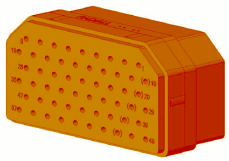
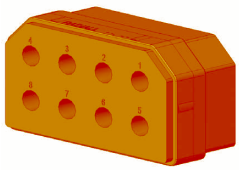
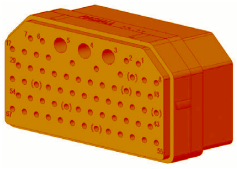
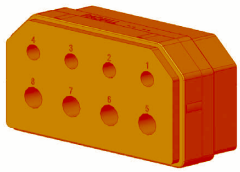
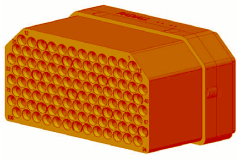
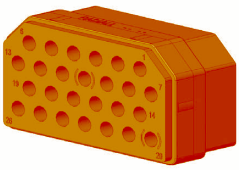
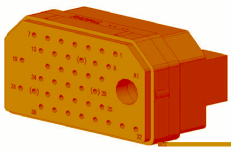
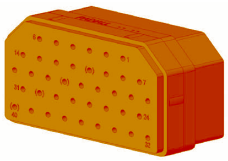
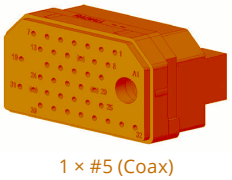
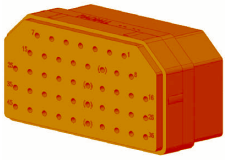
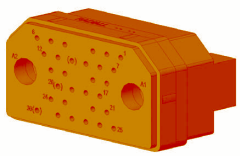
CONTACT ARRANGEMENTS

Pin insert mating side shown

Class N for non-environmental insert
Class E for environmental insert
Class T for insert with interfacial seal only

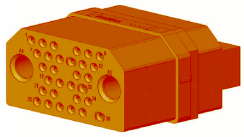
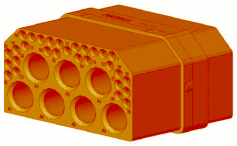
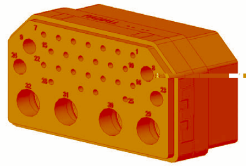
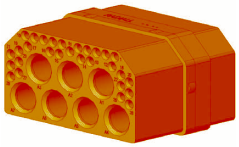
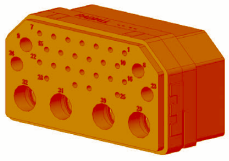
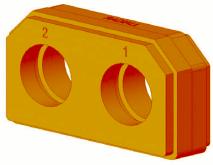
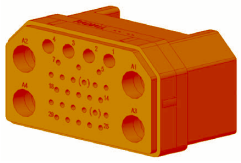
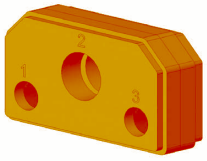
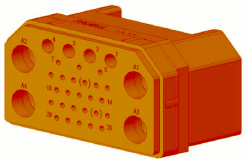
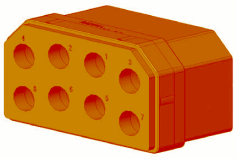
INSERT NAME	NUMBER OF CONTACTS	DIELECTRIC WITHSTANDING VOLTAGE (DWV)	CLASS			INSERT NAME	NUMBER OF CONTACTS	DWV	CLASS		
			N	E	T				N	E	T
C5 [1]	 5 × #5 (Power)	2,500 V–60 Hz This Insert is Available in Class N Only	✓	-	-	57 [1]	 57 × #20 HD	1,500 V–60 Hz	✓	✓	✓
8	 8 × #12	1,500 V–60 Hz	✓	✓	✓	67	 64 × #20 HD 3 × #16	1,000 V-60 Hz	✓	✓	✓
D8	 4 × #16 4 × #12	1,500 V–60 Hz	✓	✓	✓	106	 106 × #22	1,000 V-60 Hz	✓	✓	✓ [2]
26	 26 × #16	1,500 V–60 Hz	✓	✓	✓	40C1	 1 × #5 (Coax) 39 × #20 HD	1,500 V–60 Hz	✓	✓	-
40	 40 × #20 HD	1500V–60Hz	✓	✓	✓	40T1 [1]	 1 × #5 (Coax) 39 × #20 HD	1,500 V–60 Hz Size 5 Contact Cavity Grounded to the Shell	✓	✓	-
45	 45 × #20 HD	1,500 V–60 Hz	✓	✓	✓	32C2	 2 × #5 (Coax) 30 × #20 HD	1,000 V-60 Hz	✓	✓	-

Notes

1. Contact arrangements are not referenced in the MS3157 and SAE AS81659 standards.
2. Class T insert are for pin contacts only except insert arrangement 106; 36C7 and 36T7 which are for socket contacts only.

DSX-SAE AS81659

Pin insert mating side shown

INSERT NAME	NUMBER OF CONTACTS	DWV	CLASS			INSERT NAME	NUMBER OF CONTACTS	DWV	CLASS		
			N	E	T				N	E	T
32T2 [1]	 2 × #5 (Coax) 30 × #20 HD	1,000 V – 60 Hz Size 5 Contact Cavities Grounded to the Shell	✓	✓	-	36C7 [1]	 7 × #5 (Coax) 29 × #22	1,000 V – 60 Hz	✓	✓	✓ [2]
32C4	 4 × #9 (Coax) 4 × #16 24 × #20 HD	1,500 V – 60 Hz	✓	✓	✓	36T7 [1]	 7 x #5 (Coax) 29 x #22	1,000 V – 60Hz Size 5 Contact Cavities Grounded to the Shell	✓	✓	✓ [2]
32T4 [1]	 4 × #9 (Coax) 4 × #16 24 × #20 HD	1,500 V – 60 Hz Size 9 Contact Cavities Grounded to the Shell	✓	✓	-	MC2	 2 × #1 (Coax)	This Insert is Metallic	✓	-	-
33C4	 4 × #5 (Coax) 4 × #1625 × #20 HD	1,000 V – 60 Hz	✓	✓	✓	MC3	 2 × #7 (Coax) 1 × #3 (Coax)	This Insert is Metallic	✓	-	-
33T4 [1]	 4 × #5 (Coax) 4 × #16 25 × #20 HD	1,000 V – 60 Hz Size 5 Contact Cavities Grounded to the Shell	✓	✓	✓	C8	 8 × #9 (Coax)	1,000 V – 60 Hz	✓	✓	✓

Notes

1. Contact arrangements are not referenced in the MS3157 and SAE AS81659 standards.

2. Class T insert are for pin contacts only except insert arrangement 106; 36C7 and 36T7 which are for socket contacts only.

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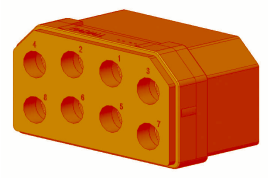
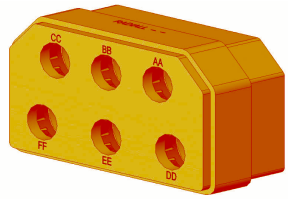
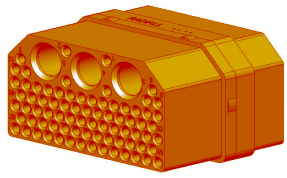
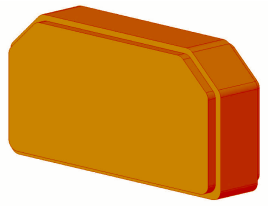
Pin insert mating side shown

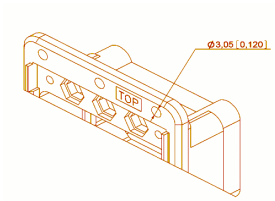
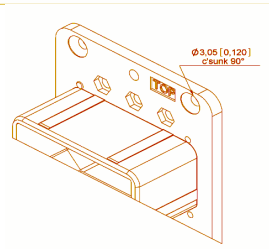
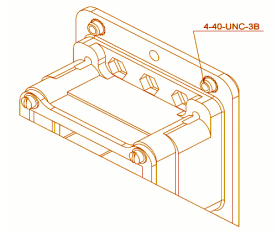
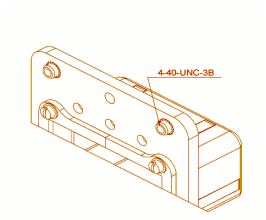
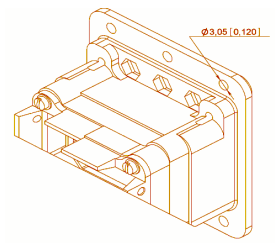
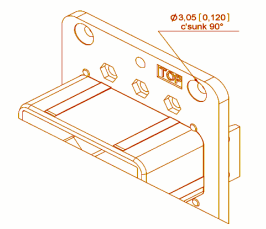
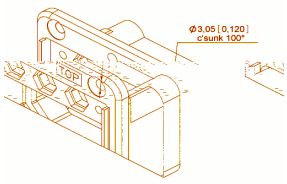
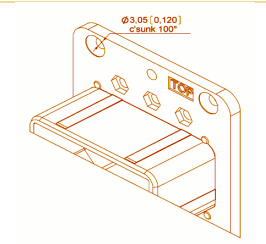
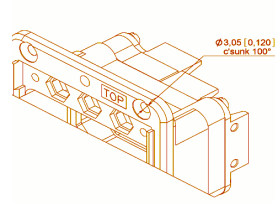
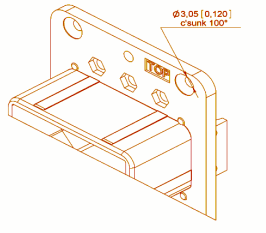
INSERT NAME	NUMBER OF CONTACTS	DWV	CLASS		
			N	E	T
T8*	 8 × #9 (Coax)	Size 9 Contact Cavities Grounded to the Shell. Pin Contact Available Only	✓	✓	✓
6CU	 6 × #8 Quadrax	Size 8 Contact Cavities Grounded to the Shell. Non-Environmental Only	✓	✓	-
81C3	 78 × # 22 3 × #5 (Coax)	1,000 V-60 Hz	✓ For Pin Contact Only	-	-
00*		Dummy Insert	-	-	-

DSX-SAE AS81659

MODIFICATION CODE

Connectors can be front or rear mount. It should be noted that:

- There is only 4 mm between the connector flange when fully mated. Please note that the modification code and screw type should be selected accordingly.
- The modification code with floating eyelets can be mated with the fixed modification.

CODE	RECEPTACLE SHELL		PLUG SHELL	
00		Sizes 1,2 and 3: 6 Holes Ø3,05 (0.120) Size 4: 10 Holes Ø3,05 (0.120)		Sizes 1 and 2: 4 Holes Ø3,05 (0.120) c'sunk 90° Size 3: 6 Holes Ø3,05 (0.120) c'sunk 90° Size 4: 10 Holes Ø3,05 (0.120) c'sunk 90°
01		Sizes 1 and 2: 4 Clinch Nuts 4.40 UNC 3B Size 3: 6 Clinch Nuts 4.40 UNC 3B Size 4: 10 Clinch Nuts 4.40 UNC 3B		Sizes 1 and 2: 4 Clinch Nuts 4.40 UNC 3B Size 3: 6 Clinch Nuts 4.40 UNC 3B Size 4: 10 Clinch Nuts 4.40 UNC 3B
02		Sizes 1, 2 and 3: 6 Holes Ø3,05 (0.120) with Attaching Tabs for Radiall Backshell Not Available in Size 4		Sizes 1 and 2: 4 Holes Ø3,05 (0.120) c'sunk 90° with Attaching Tabs for Radiall Backshell Size 3: 6 Holes Ø3,05 (0.120) c'sunk 90° with Attaching Tabs for Radiall backshell Not Available in Size 4
03		Sizes 1 and 2: 4 Holes Ø3,05(0.120) c'sunk 100° Size 3: 6 Holes Ø3,05(0.120) c'sunk 100° Size 4: 10 Holes Ø3,05(0.120) c'sunk 100°		Sizes 1 and 2: 4 Holes Ø3,05(0.120) c'sunk 100° Size 3: 6 Holes Ø3,05(0.120) c'sunk 100° Size 4: 10 Holes Ø3,05(0.120) c'sunk 100°
04		Sizes 1 and 2: 4 Holes Ø3,05(0.120) c'sunk 100° with Attaching Tabs for Radiall Backshell Size 3: 6 Holes Ø3,05(0.120) c'sunk 100° with Attaching Tabs for Radiall Backshell Not Available in Size 4		Sizes 1 and 2: 4 Holes Ø3,05(0.120) c'sunk 100° with Attaching Tabs for Radiall Backshell Size 3: 6 Holes Ø3,05(0.120) c'sunk 100° with Attaching Tabs for Radiall Backshell Not Available in Size 4

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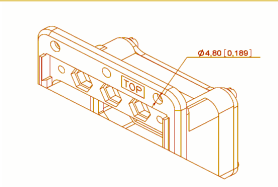
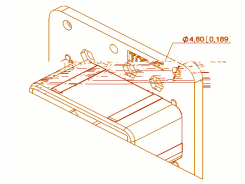
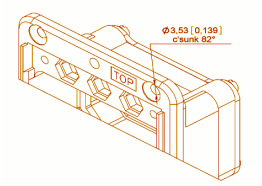
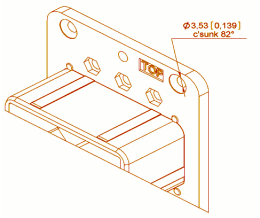
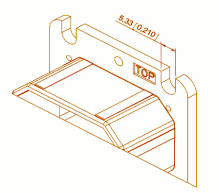
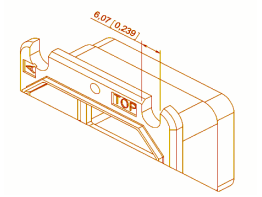
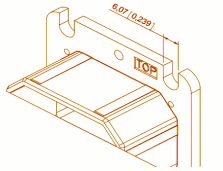
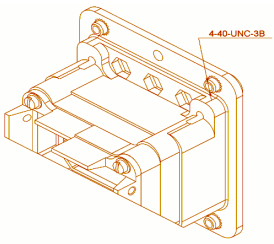
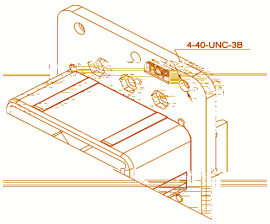
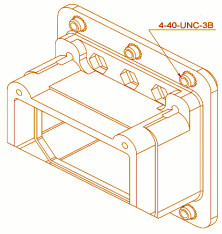
CODE	RECEPTACLE SHELL		PLUG SHELL	
05		Sizes 1,2 and 3: 4 Holes Ø4,80 (0.189) Size 4: 10 Holes Ø4,80 (0.189)		Sizes 1,2 and 3: 4 Holes Ø4,80 (0.189) Size 4: 10 Holes Ø 4,80 (0.189)
08		Sizes 1 and 2: 4 Holes Ø3,53 (0.139) c'sunk 82° Size 3: 6 Holes Ø3,53 (0.139) c'sunk 82°		Sizes 1 and 2: 4 Holes Ø3,53 (0.139) c'sunk 82° Size 3: 6 Holes Ø3,53 (0.139) c'sunk 82°
12	-	-		Sizes 1, 2 and 3: 4 Mounting Slots 5,33 (0.210) Wide
13		Sizes 1, 2 and 3: 4 Mounting Slots 6,07 (0.239) Wide		Sizes 1, 2 and 3: 4 Mounting Slots 6,07 (0.239) Wide
17		Sizes 1 and 2: 4 Clinch Nuts 4.40 UNC 3B with Attaching Tabs for Radiall Backshell Size 3: 6 Clinch Nuts 4.40 UNC 3B with Attaching Tabs for Radiall Backshell Not Available in Size 4		Sizes 1 and 2: 4 Clinch Nuts 4.40 UNC 3B with Attaching Tabs for Radiall Backshell Size 3: 6 Clinch Nuts 4.40 UNC 3B with Attaching Tabs for Radiall Backshell Not Available in Size 4
18		Sizes 1, 2 and 3: 6 Clinch Nuts 4.40 UNC 3B Not Available in Size 4	-	-

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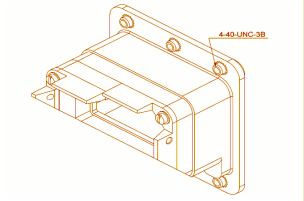
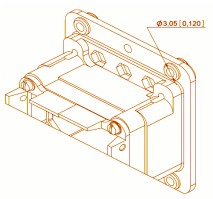
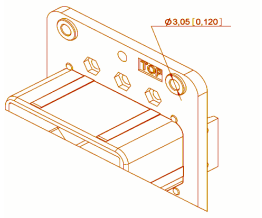
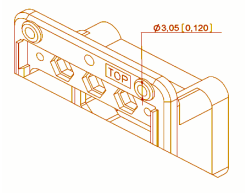
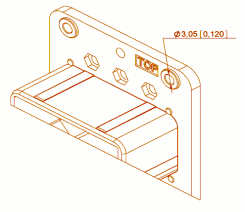
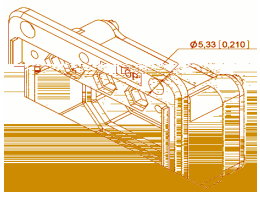
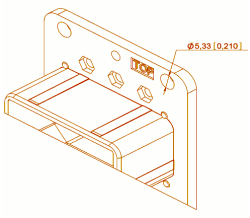
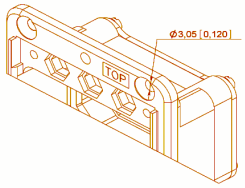
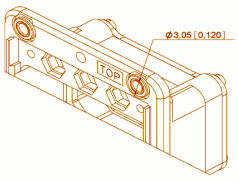
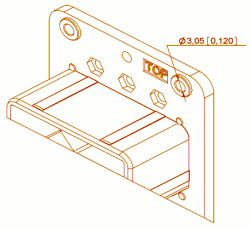
CODE	RECEPTACLE SHELL		PLUG SHELL	
19		Sizes 1, 2 and 3: 6 Clinch Nuts 4.40 UNC 3B with Attaching Tabs for Radiall Backshell Not Available in Size 4	-	-
22		Sizes 1 and 2: 4 Floating Eyelets Ø3,05 (0.120) with Attaching Tabs for Radiall Backshell Size 3: 6 Floating Eyelets Ø3,05 (0.120) with Attaching Tabs for Radiall Backshell Not Available in Size 4		Sizes 1 and 2: 4 Floating Eyelets Ø3,05 (0.120) with Attaching Tabs for Radiall Backshell Size 3: 6 Floating Eyelets Ø3,05 (0.120) with Attaching Tabs for Radiall Backshell Not Available in Size 4
23		Sizes 1 and 2: 4 Floating Eyelets Ø3,05(0.120 Size 3: 6 Floating Eyelets Ø3,05 (0.120) Size 4: 10 Floating Eyelets Ø3,05 (0.120)		Sizes 1 and 2: 4 Floating Eyelets Ø3,05 (0.120) Size 3: 6 Floating Eyelets Ø3,05 (0.120) Size 4: 10 Floating Eyelets Ø3,05 (0.120)
24		Sizes 1, 2 and 3: 6 Holes Ø5,33 (0.210)		Sizes 1, 2 and 3: 6 Holes Ø5,33 (0.210)
26		Sizes 1 and 2: 4 Holes Ø3,05(0.120) c'sunk 90° Size 3: 6 Holes Ø3,05(0.120) c'sunk 90° Size 4: 10 Holes Ø3,05(0.120) c'sunk 90°	-	-
33		Sizes 1 and 2: 4 Flush Front Embedded Floating Eyelets Ø3,05 (0.120) Size 3: 6 Flush Front Embedded Floating Eyelets Ø3,05 (0.120) Size 4: 10 Flush Front Embedded Floating Eyelets Ø3,05 (0.120)		Sizes 1 and 2: 4 Flush Rear Embedded Floating Eyelets Ø3,05 (0.120) Size 3: 6 Flush Rear Embedded Floating Eyelets Ø3,05 (0.120) Size 4: 10 Flush Rear Embedded Floating Eyelets Ø3,05 (0.120)

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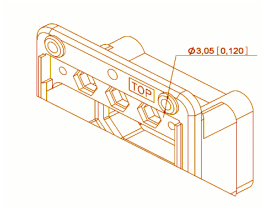
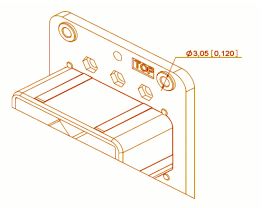
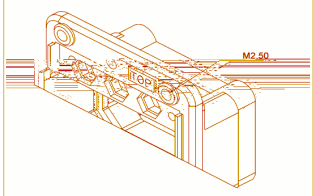
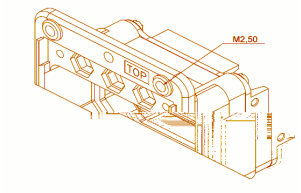
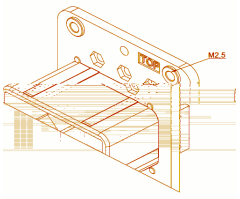
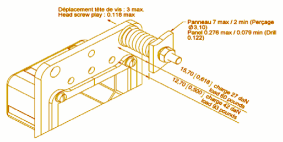
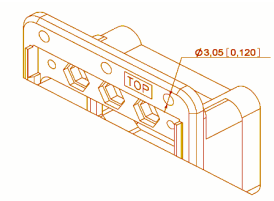
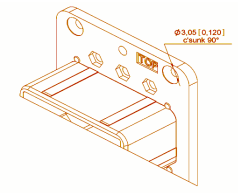
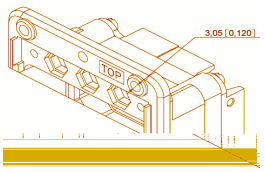
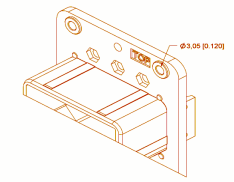
CODE	RECEPTACLE SHELL		PLUG SHELL	
34		Sizes 1 and 2: 4 Flush Rear Embedded Floating Eyelets Ø3,05 (0.120) Size 3: 6 Flush Rear Embedded Floating Eyelets Ø3,05 (0.120) Size 4: 10 Flush Rear Embedded Floating Eyelets Ø3,05 (0.120)		Sizes 1 and 2: 4 Flush Front Embedded Floating Eyelets Ø3,05 (0.120) Size 3: 6 Flush Front Embedded Floating Eyelets Ø3,05 (0.120) Size 4: 10 Flush Front Embedded Floating Eyelets Ø3,05 (0.120)
35		Sizes 1 and 2: 4 Flush Front Embedded Floating Eyelets M2.5 Threaded Size 3: 6 Flush Rear Embedded Floating Eyelets M2.5 Threaded		Sizes 1 and 2: 4 Flush Rear Embedded Floating Eyelets M2.5 Threaded Size 3: 6 Flush Rear Embedded Floating Eyelets M2.5 Threaded
36		Sizes 1 and 2: 4 Flush Front Embedded Floating Eyelets M2.5 Threaded with Attaching Tabs for Radiall Backshell Size 3: 6 Flush Front Embedded Floating Eyelets M2.5 Threaded with Attaching Tabs for Radiall Backshell Not Available in Size 4		Sizes 1 and 2: 4 Flush Front Embedded Floating Eyelets M2.5 Threaded with Attaching Tabs for Radiall Backshell Size 3: 6 Flush Front Embedded Floating Eyelets M2.5 Threaded with Attaching Tabs for Radiall Backshell Not Available in Size 4
55	-	-		Sizes 1, 2 and 3: Spring Loaded Shell 6 Places
60		Similar to Modification Code 00 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated.		Similar to Modification Code 00 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated.
61		Similar to Modification Code 22 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated. Not Available in Size 4		Similar to Modification Code 22 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated. Not Available in Size 4

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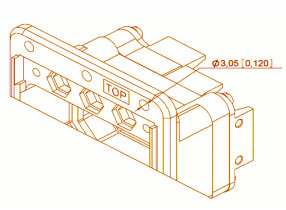
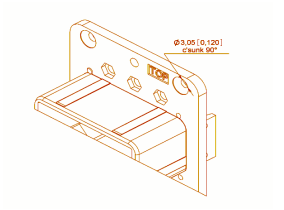
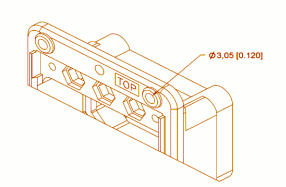
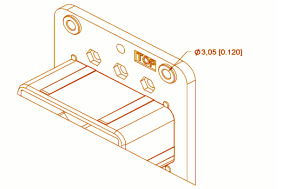
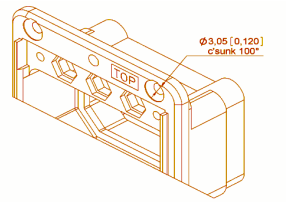
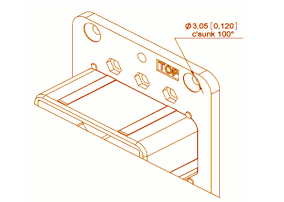
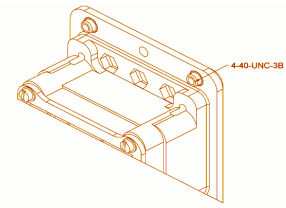
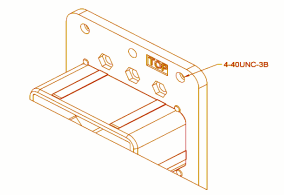
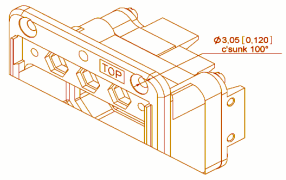
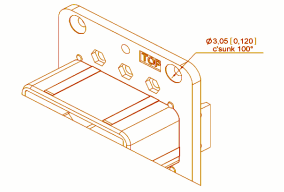
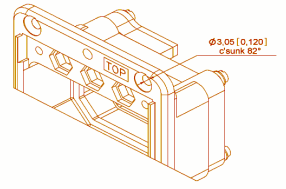
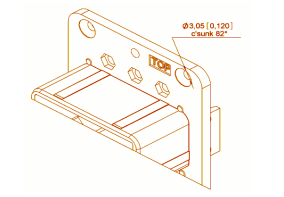
CODE	RECEPTACLE SHELL		PLUG SHELL	
62		Similar to Modification Code 02 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated. Not Available in Size 4		Similar to Modification Code 02 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated. Not Available in Size 4
63		Similar to Modification Code 23 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated.		Similar to Modification Code 23 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated.
64		Similar to Modification Code 03 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated.		Similar to Modification Code 03 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated.
66		Similar to Modification Code 01 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated.		Similar to Modification Code 01 except that the Shell, Keys and Keys Retention Plate are Nickel-Plated.
67		Sizes 1 and 2: 4 Holes Ø3,05 (0.120) c'sunk 100° with Attaching Tabs for Radiall Backshell Size 3: 6 Holes Ø3,05 (0.120) c'sunk 100° with Attaching Tabs for Radiall Backshell Shells are Nickel-Plated. Not Available in Size 4		Sizes 1 and 2: 4 Holes Ø3,05 (0.120) c'sunk 100° with Attaching Tabs for Radiall Backshell Size 3: 6 Holes Ø3,05 (0.120) c'sunk 100° with Attaching Tabs for Radiall Backshell. Shells are Nickel-Plated Not Available for Size 4
73		Sizes 1 and 2: 4 Holes Ø3,05 (0.120) c'sunk 82° Size 3: 6 Holes Ø3,05 (0.120) c'sunk 82° Size 4: 10 Holes Ø3,05 (0.120) c'sunk 82°		Sizes 1 and 2: 4 Holes Ø3,05 (0.120) c'sunk 82° Size 3: 6 Holes Ø3,05 (0.120) c'sunk 82° Size 4: 10 Holes Ø3,05 (0.120) c'sunk 82°

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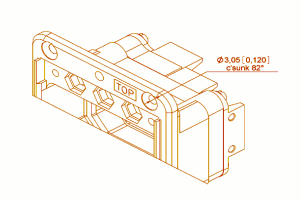
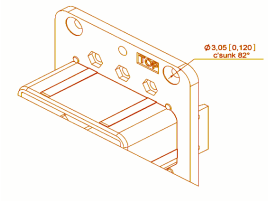
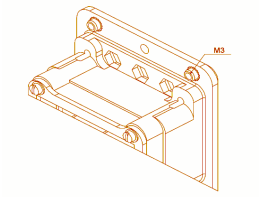
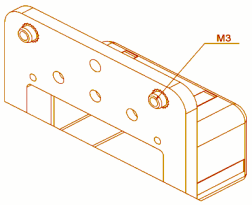
CODE	RECEPTACLE SHELL		PLUG SHELL	
77		Sizes 1 and 2: 4 Holes Ø3,05 (0.120) c'sunk 82° with Attaching Tabs for Radiall Backshell Size 3: 6 Holes Ø3,05 (0.120) c'sunk 82° with Attaching Tabs for Radiall Backshell Not Available for Size 4		Sizes 1 and 2: 4 Holes Ø3,05 (0.120) c'sunk 82° with Attaching Tabs for Radiall Backshell Size 3: 6 Holes Ø3,05 (0.120) c'sunk 82° with Attaching Tabs for Radiall Backshell Not Available for Size 4
79		Sizes 1 and 2: 4 M3 Clinch Nuts Size 3: 6 M3 Clinch Nuts Size 4: 10 M3 Clinch Nuts		Sizes 1 and 2: 4 M3 Clinch Nuts Size 3: 6 M3 Clinch Nuts Size 4: 10 M3 Clinch Nuts

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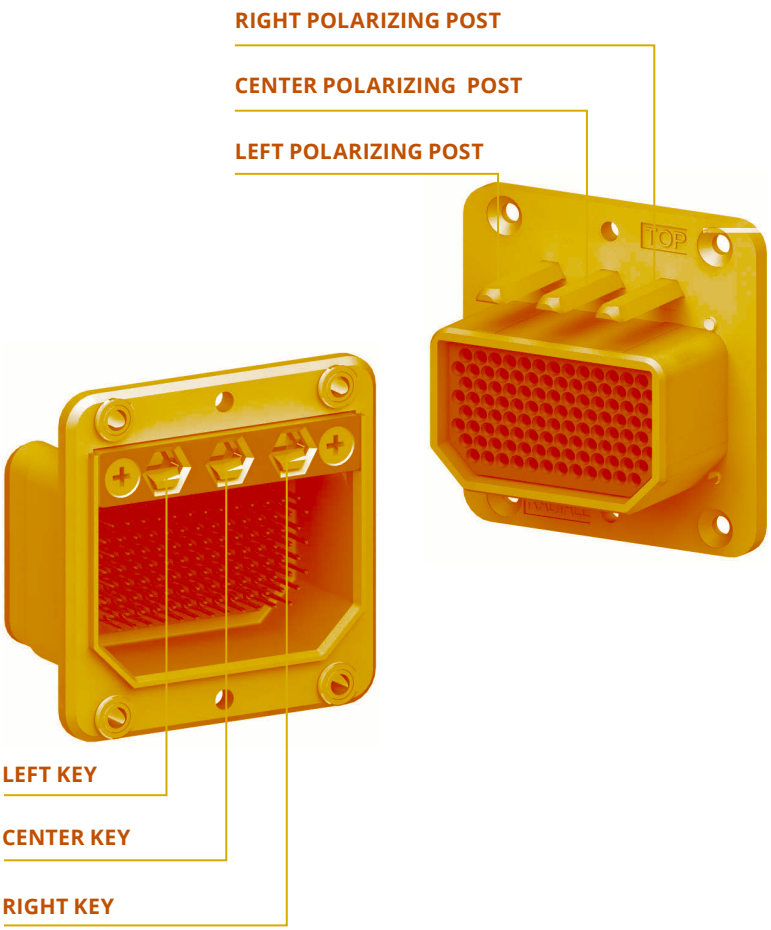
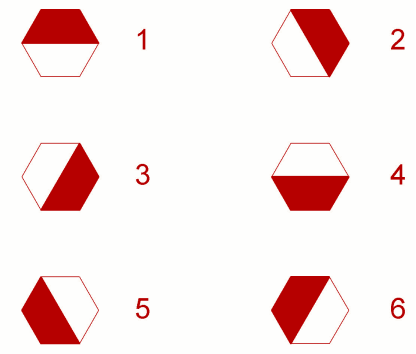
POLARIZATION CODE



POSITION OF POLARIZATION KEYS AND POSTS.

Connectors are shown front side, with "TOP" upwards.



POSITION CODING

Dark area represents the polarizing post.
Clear position represents the key hole.

POLARIZATION CODE	RECEPTACLE SHELL			PLUG SHELL		
	LEFT KEY	CENTER KEY	RIGHT KEY	LEFT POST	CENTER POST	RIGHT POST
00	-	-	-	-	-	-
01	4	4	4	1	1	1
02	4	4	3	2	1	1
03	4	4	2	3	1	1
04	4	4	1	4	1	1
05	4	4	6	5	1	1
06	4	4	5	6	1	1
07	5	4	4	1	1	6
08	5	4	3	2	1	6
09	5	4	2	3	1	6
10	5	4	1	4	1	6
11	5	4	6	5	1	6

POLARIZATION CODE TABLE

POLARIZATION CODE	RECEPTACLE SHELL			PLUG SHELL		
	LEFT KEY	CENTER KEY	RIGHT KEY	LEFT POST	CENTER POST	RIGHT POST
12	5	4	5	6	1	6
13	6	4	4	1	1	5
14	6	4	3	2	1	5
15	6	4	2	3	1	5
16	6	4	1	4	1	5
17	6	4	6	5	1	5
18	6	4	5	6	1	5
19	1	4	4	1	1	4
20	1	4	3	2	1	4
21	1	4	2	3	1	4
22	1	4	1	4	1	4
23	1	4	6	5	1	4
24	1	4	5	6	1	4
25	2	4	4	1	1	3

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POLARIZATION CODE	RECEPTACLE SHELL			PLUG SHELL		
	LEFT KEY	CENTER KEY	RIGHT KEY	LEFT POST	CENTER POST	RIGHT POST
26	2	4	3	2	1	3
27	2	4	2	3	1	3
28	2	4	1	4	1	3
29	2	4	6	5	1	3
30	2	4	5	6	1	3
31	3	4	4	1	1	2
32	3	4	3	2	1	2
33	3	4	2	3	1	2
34	3	4	1	4	1	2
35	3	4	6	5	1	2
36	3	4	5	6	1	2
37	4	3	4	1	2	1
38	4	3	3	2	2	1
39	4	3	2	3	2	1
40	4	3	1	4	2	1
41	4	3	6	5	2	1
42	4	3	5	6	2	1
43	5	3	4	1	2	6
44	5	3	3	2	2	6
45	5	3	2	3	2	6
46	5	3	1	4	2	6
47	5	3	6	5	2	6
48	5	3	5	6	2	6
49	6	3	4	1	2	5
50	6	3	3	2	2	5
51	6	3	2	3	2	5
52	6	3	1	4	2	5
53	6	3	6	5	2	5
54	6	3	5	6	2	5
55	1	3	4	1	2	4
56	1	3	3	2	2	4
57	1	3	2	3	2	4
58	1	3	1	4	2	4
59	1	3	6	5	2	4
60	1	3	5	6	2	4
61	2	3	4	1	2	3
62	2	3	3	2	2	3
63	2	3	2	3	2	3
64	2	3	1	4	2	3
65	2	3	6	5	2	3
66	2	3	5	6	2	3

POLARIZATION CODE	RECEPTACLE SHELL			PLUG SHELL		
	LEFT KEY	CENTER KEY	RIGHT KEY	LEFT POST	CENTER POST	RIGHT POST
67	3	3	4	1	2	2
68	3	3	3	2	2	2
69	3	3	2	3	2	2
70	3	3	1	4	2	2
71	3	3	6	5	2	2
72	3	3	5	6	2	2
73	4	2	4	1	3	1
74	4	2	3	2	3	1
75	4	2	2	3	3	1
76	4	2	1	4	3	1
77	4	2	6	5	3	1
78	4	2	5	6	3	1
79	5	2	4	1	3	6
80	5	2	3	2	3	6
81	5	2	2	3	3	6
82	5	2	1	4	3	6
83	5	2	6	5	3	6
84	5	2	5	6	3	6
85	6	2	4	1	3	5
86	6	2	3	2	3	5
87	6	2	2	3	3	5
88	6	2	1	4	3	5
89	6	2	6	5	3	5
90	6	2	5	6	3	5
91	1	2	4	1	3	4
92	1	2	3	2	3	4
93	1	2	2	3	3	4
94	1	2	1	4	3	4
95	1	2	6	5	3	4
96	1	2	5	6	3	4
97	2	2	4	1	3	3
98	2	2	3	2	3	3
99	2	2	2	3	3	3
100	2	2	1	4	3	3
101	2	2	6	5	3	3
102	2	2	5	6	3	3
103	3	2	4	1	3	2
104	3	2	3	2	3	2
105	3	2	2	3	3	2
106	3	2	1	4	3	2
107	3	2	6	5	3	2

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POLARIZATION CODE	RECEPTACLE SHELL			PLUG SHELL		
	LEFT KEY	CENTER KEY	RIGHT KEY	LEFT POST	CENTER POST	RIGHT POST
108	3	2	5	6	3	2
109	4	1	4	1	4	1
110	4	1	3	2	4	1
111	4	1	2	3	4	1
112	4	1	1	4	4	1
113	4	1	6	5	4	1
114	4	1	5	6	4	1
115	5	1	4	1	4	6
116	5	1	3	2	4	6
117	5	1	2	3	4	6
118	5	1	1	4	4	6
119	5	1	6	5	4	6
120	5	1	5	6	4	6
121	6	1	4	1	4	5
122	6	1	3	2	4	5
123	6	1	2	3	4	5
124	6	1	1	4	4	5
125	6	1	6	5	4	5
126	6	1	5	6	4	5
127	1	1	4	1	4	4
128	1	1	3	2	4	4
129	1	1	2	3	4	4
130	1	1	1	4	4	4
131	1	1	6	5	4	4
132	1	1	5	6	4	4
133	2	1	4	1	4	3
134	2	1	3	2	4	3
135	2	1	2	3	4	3
136	2	1	1	4	4	3
137	2	1	6	5	4	3
138	2	1	5	6	4	3
139	3	1	4	1	4	2
140	3	1	3	2	4	2
141	3	1	2	3	4	2
142	3	1	1	4	4	2
143	3	1	6	5	4	2
144	3	1	5	5	4	2
145	4	6	4	1	5	1
146	4	6	3	2	5	1
147	4	6	2	3	5	1
148	4	6	1	4	5	1

POLARIZATION CODE	RECEPTACLE SHELL			PLUG SHELL		
	LEFT KEY	CENTER KEY	RIGHT KEY	LEFT POST	CENTER POST	RIGHT POST
149	4	6	6	5	5	1
150	4	6	5	6	5	1
151	5	6	4	1	5	6
152	5	6	3	2	5	6
153	5	6	2	3	5	6
154	5	6	1	4	5	6
155	5	6	6	5	5	6
156	5	6	5	6	5	6
157	6	6	4	1	5	5
158	6	6	3	2	5	5
159	6	6	2	3	5	5
160	6	6	1	4	5	5
161	6	6	6	5	5	5
162	6	6	5	6	5	5
163	1	6	4	1	5	4
164	1	6	3	2	5	4
165	1	6	2	3	5	4
166	1	6	1	4	5	4
167	1	6	6	5	5	4
168	1	6	5	6	5	4
169	2	6	4	1	5	3
170	2	6	3	2	5	3
171	2	6	2	3	5	3
172	2	6	1	4	5	3
173	2	6	6	5	5	3
174	2	6	5	6	5	3
175	3	6	4	1	5	2
176	3	6	3	2	5	2
177	3	6	2	3	5	2
178	3	6	1	4	5	2
179	3	6	6	5	5	2
180	3	6	5	6	5	2
181	4	5	4	1	6	1
182	4	5	3	2	6	1
183	4	5	2	3	6	1
184	4	5	1	4	6	1
185	4	5	6	5	6	1
186	4	5	5	6	6	1
187	5	5	4	1	6	6
188	5	5	3	2	6	6
189	5	5	2	3	6	6

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POLARIZATION CODE	RECEPTACLE SHELL			PLUG SHELL		
	LEFT KEY	CENTER KEY	RIGHT KEY	LEFT POST	CENTER POST	RIGHT POST
190	5	5	1	4	6	6
191	5	5	6	5	6	6
192	5	5	5	6	6	6
193	6	5	4	1	6	5
194	6	5	3	2	6	5
195	6	5	2	3	6	5
196	6	5	1	4	6	5
197	6	5	6	5	6	5
198	6	5	5	6	6	5
199	1	5	4	1	6	4
200	1	5	3	2	6	4
201	1	5	2	3	6	4
202	1	5	1	4	6	4
203	1	5	6	5	6	4
204	1	5	5	6	6	4
205	2	5	4	1	6	3
206	2	5	3	2	6	3
207	2	5	2	3	6	3
208	2	5	1	4	6	3
209	2	5	6	5	6	3
210	2	5	5	6	6	3
211	3	5	4	1	6	2
212	3	5	3	2	6	2
213	3	5	2	3	6	2
214	3	5	1	4	6	2
215	3	5	6	5	6	2
216	3	5	5	6	6	2

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CONTACTS

SIGNAL & POWER CRIMP CONTACTS SIZES 22, 20 HD, 16, 12 & 5

CONTACT SIZE	AWG	CROSS SECTION (MM^2)	WIRE OUTSIDE DIA MM (INCH)	STRIPING LENGTH MM (INCH)	PIN	SOCKET	CRIMPING TOOL	POSITIONNER	SEL.	INS/EXT TOOL
22	22 24 26	0.38 0.21 0.14	1.4 (0.055)	3.5 (0.138)	616200 (M39029/ 11-144)	616300 (M39029/ 12-148)	282281 (M22520/ 2-01)	282970 (M22520/ 2-23)	4 3 3	282885 (M81969/ 1-01
22 Reduced Crimp Barrel	28 30	0.093 0.055	1.2 (0.047)	3.5	616201	616301			5 4	
20 HD	20 22 24	0.60 0.38 0.21	1.8 (0.071)	4.0 (0.157)	616210 (M39029/ 11-145)	616310 (M39029/ 12-149)		282971 (M22520/ 2-08)	7 6 5	282886 (M81969/ 1-02)
20 HD Reduced Crimp Barrel	26 28 30	0.14 0.093 0.055	1.25 (0.049)	4.0 (0.157)	616211	616311			6 5 4	
16	16 18 20	1.34 0.93 0.60	2.6 (0.236)	6.0 (0.236)	616230 (M39029/ 11-146)	616330 (M39029/ 12-150)	282291 (M22520/ 1-01)	282972 (M22520/ 1-02)	6 5 4	282546 (M81969/ 1-03)
16 Reduced Crimp Barrel	20 22 24	0.60 0.38 0.21	1.80 (0.071)	6.0 (0.236)	616231	616331			5 4	
12	12 14 16	3.18 1.91 1.34	3.4 (0.134)	6.0 (0.236)	616240 (M39029/ 11-147)	616340 (M39029/ 11-151)		282579 (M22520/ 1-11)	8 7 6	282547 (M81969/ 28-02)
For Cavity 5	12 14	3.18 1.91	3.4 (0.134)	8.0 (0.315)	616261	616361	282296 (DANIELS M300BT) [1]		1 1	282946 (M81969/ 28-01)
	10 8	5.0 9.0	5.7 (0.234)		616266	616366		282557	5 8	

THERMOCOUPLE CONTACTS SIZES 22 & 20 HD-MADE OF CHROMEL

CONTACT SIZE	AWG	CROSS SECTION (MM^2)	WIRE OUTSIDE DIA MM (INCH)	STRIPING LENGTH MM (INCH)	PIN	SOCKET	CRIMPING TOOL	POSITIONNER	SEL.	INS/EXT TOOL
22	22 24 26	0.38 0.21 0.14	1.4 (0.055)	3.5 (0.138)	620280	620380	282281 (M22520/ 2-01)	282970 (M22520/ 2-23)	4 3 3	282885 (M81969/ 1-01)
20 HD	20 22 24	0.60 0.38 0.21	1.8 (0.071)	4.0 (0.157)	620290	620390		282971 (M22520/ 2-08)	7 6 5	282886 (M81969/ 1-02)

THERMOCOUPLE CONTACTS SIZES 22 & 20 HD-MADE OF ALUMEL

CONTACT SIZE	AWG	CROSS SECTION (MM^2)	WIRE OUTSIDE DIA MM (INCH)	STRIPING LENGTH MM (INCH)	PIN	SOCKET	CRIMPING TOOL	POSITIONNER	SEL.	INS/EXT TOOL
22	22 24 26	0.38 0.21 0.14	1.4 (0.055)	3.5 (0.138)	620281	620381	282281 (M22520/ 2-01)	282970 (M22520/ 2-23)	4 3 3	282885 (M81969/ 1-01)
20 HD	20 22 24	0.60 0.38 0.21	1.8 (0.071)	4.0 (0.157)	620291	620391		282971 (M22520/ 2-08)	7 6 5	282886 (M81969/ 1-02)

Notes

1. Daniels WA27-309-EP air pressure tool with crimp setting 5 can also be used. Crimp setting 5 is not adjustable and must be set by the factory.

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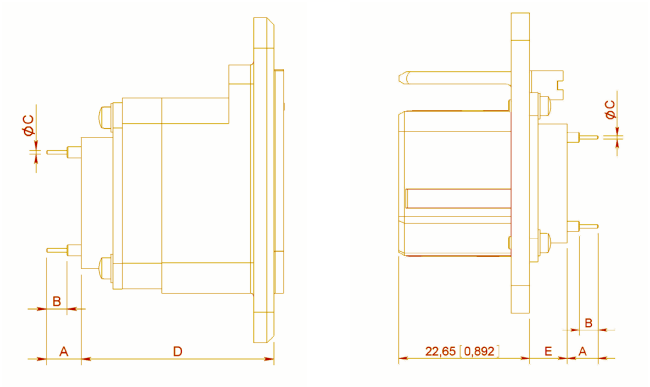
SIZES 22 & 20 HD-PC TAIL CONTACTS

CONTACT SIZE	CONTACT ARRANGEMENT	PIN	SOCKET	EXT. TOOL	DIMENSIONS MM (INCH)				
					A	B	C	D	E
22	106	-	616379	282890	6.1/5.3 (0.240/0.209)	6.5 (0.256)	0.6 (0.023)	25.25/25.75 (0.994/1.013)	1.55/1.75 (0.061/0.069)
			616303		14.4/13.6 (0.567/0.535)	9.4 (0.370)			
		616206 [1]	616306 [1]		5.9/6.7 (0.232/0.263)	3.8 (0.149)			
	36C7 for Pin Contacts		-		0.82/0.10 (0.032/0.004)			-	7.85/7.44 (0.293/0.309)
	36C7 for Socket Contacts	-	616306		4/3.3 (0.157/0.130)				-
		-	616303		11.72/11 (0.461/0.433)	9.4 (0.370)			
20 HD	40-45-57-32C2-32C4-40C1	616216 [1]	-	282891	6.6/7.6 (0.259/0.299)	-	0.8 (0.031)	31.25/31.75 (1.23/1.25)	7.45/7.75 (0.293/0.305)
	67-33C4				6.3/7.3 (0.248/0.287)				
	40-45-57-32C2-32C4-40C1	616223	616323 [1]		3.5/4.3 (0.138/0.169)	3.2 (0.126)	0.6 (0.023)		
	67-33C4				3.2/4 (0.126/0.157)				



Notes

1. Connectors delivered in the "Y" termination style will be fitted with contacts marked by "[1]" (see above table). If another style of pc tail contact is desired, use termination style "x" when ordering the connector and order contacts separately.

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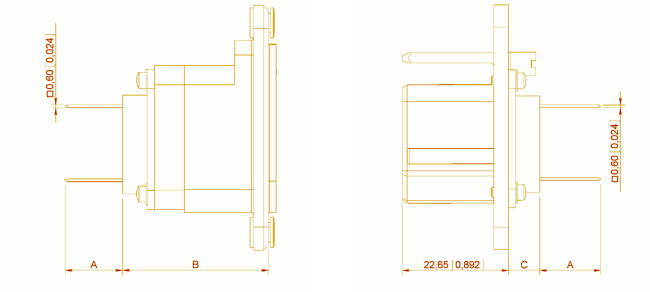
SIZES 22 & 20 HD-WIRE WRAP CONTACTS

CONTACT SIZE	AWG	CONTACT ARRANGEMENT	PIN	SOCKET	EXT. TOOL	DIMENSIONS MM (INCH)		
						A	B	C
22	26 28 30	106	610203 (2 Wrap Levels)	610303 (2 Wrap Levels)	282527	10/11 (0.393/0.433)	25.25/25.75 (0.994/1.013)	1.55/1.75 (0.061/0.069)
			610204 (3 Wrap Levels)	610304 (3 Wrap Levels)		12.5/13.5 (0.492/0.531)		
20	26 28 30	40-45-57-32C2- 32C4-40C1-67- 33C4	610214 (2 Wrap Levels)	610314 (2 Wrap Levels)		10.3/11.3 (0.405/0.445)	31.25/31.75 (1.203/1.250)	7.45/7.75 (0.293/0.305)
						9.85/10.95 (0.387/0.431)		



COAXIAL CRIMP CONTACTS SIZE 1

(DESIGN AS PER MS3168-3169 SPECIFICATIONS)

CONTACT SIZE	CONTACT ARRANGEMENT	CABLE [1]	PIN	SOCKET	CENTER CONTACT			OUTER BODY		
					CRIMPING TOOL	POSITIONER	SEL.	CRIMPING TOOL	DIE	HEX
1	MC2	UT 141 RG 402	616005	-	Solder Contact					
		RG 58 RG 141 KX 15	616006 Right Angle	-	Solder Contact			282293 (M22520/5- 01)	282246 (M22520/5-05)	A
		RG 213 KX 4	-	616102001	282291 (M22520/1-01)	282997 (M22520/1-13)	8		282247 (M22520/5-61)	A
		RG 214 RG 225	- 616003	616103001 -						
		RG 142	616007 Right Angle	-	Solder Contact				282246 (M22520/5-05)	A
		RG 142 RG 223	-	616107001	282291 (22520/1-01)	282997 (M22520/1-13)	7			
		RG 174 KX 22	-	616100	Solder Contact					
		RD 316	616004 Right Angle	-	Solder Contact					B
		-	616009	-	SMA Termination					

PART NUMBER	616004–616006-616007	616009–616100–616103001 616106-616102001	616003–616005 616107001
Dielectric Withstanding Voltage at Sea Level (Vrms)	1,000	1,500	2,500

Notes

1. For other cable, please contact Radiall.

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COAXIAL CRIMP CONTACTS SIZE 3

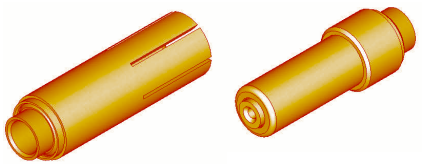
CONTACT SIZE	CONTACT ARRANGEMENT	CABLE [1]	PIN	SOCKET	CENTER CONTACT			OUTER BODY		
					CRIMPING TOOL	POSITIONER	SEL.	CRIMPING TOOL	DIE	HEX
3	MC3	RG 142 RG 223	616013	-	Solder			282293 (M22520/5-01)	282246 (M22520/5-05)	A
			-	616113	282291 (M22520/1-01)	282997 (M22520/5-05)	7			
		RG 316	616015 Right Angle [1]	-	Solder					B
		UT 141 RG 402	616014	-	Solder					
		RG 214 RG 225	-	616111	282291 (M22520/1-01)	282997 (M22520/5-05)	8	282293 (M22520/5-01)	282247 (M22520/5-61)	A
		RG 213 KX 4	-	616112						

COAXIAL CRIMP CONTACTS SIZE 5

(DESIGN AS PER MS3172 SPECIFICATIONS)

The following contacts have to be fitted with a sealing boot when used in DSX E connectors (see page 7-29). Coaxial cavities without any contact can be fitted with sealing plugs when used in DSX E connectors.

CONTACT SIZE	CONTACT ARRANGEMENT	CABLE [1]	PIN [3 & 4]	SOCKET [3 & 4]	CENTER CONTACT			OUTER BODY		
					CRIMPING TOOL	POSITIONER	SEL.	CRIMPING TOOL	DIE	HEX
5	32C2 32T2 33C4 33T4 36C7 36T7 40C1 40T1	RG 58 KX 15	616120	616020	282281 (M22520/2-01)	282974	6	282293 (M22520/5-01)	282246 (M22520/5-05)	A
		RG 141	616120	616020			8			
		RG 142 RG 223 KX 23	616121	616021			8			
		RG 179 RG 188 RG 174 RG316 KX 22	616122	616022			7			B
		RG 179 RG 187	-	616022002		282550 DANIELS K345				
		RG 196 RG 178 KX 21	616123	616023		282974	6			
		RG 195 RG 180	616124	616024						
		RG 316 DS	616163	616026			7			
		UT .085	616125	-	Solder					
		UT .141	616128	616028						



Notes

1. For other cable, please contact Radiall
2. Dielectric withstanding voltage at sea level: 1,500 Vrms. Except 1,000 Vrms for 616015
3. Dielectric withstanding voltage at sea level: 750 Vrms
4. Extraction tool: 282946 (M81969/28-01)

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COAXIAL CRIMP CONTACTS SIZE 7

CONTACT SIZE	CONTACT ARRANGEMENT	CABLE [1]	PIN [2 & 3]	SOCKET [2 &3]	CENTER CONTACT			OUTER BODY		
					CRIMPING TOOL	POSITIONER	SEL.	CRIMPING TOOL	DIE	HEX
7	MC3	RG 58 RG 141 KX 15	610120	-	Solder			282293 (M22520/5-01)	282246 (M22520/5-05)	A
		RG 174 RG 316 KX 22 RG 188	610126	-						B
		RG 58 KX 15	-	616030	282281 (M22520/2-01	282550 (DANIELS K345)	6			A
		RG 141	-	616030			8			A
		RG 142 RG 223 KX 23	-	616031			8			A
		RG 174 RG 316 KX 22	-	616032			7			B

COAXIAL CRIMP CONTACTS SIZE 9

Add 001 at the end of each part number pin or socket to order environmental size 9 coax contacts. Coaxial cavities without any contact can be fitted with sealing plugs when used in DSX E connectors.

CONTACT SIZE	CONTACT ARRANGEMENT	CABLE [1]	PIN [2 & 3]	SOCKET [2 & 3]	CENTER CONTACT			OUTER BODY		
					CRIMPING TOOL	POSITIONER	SEL.	CRIMPING TOOL	DIE	HEX
9	C8 T8 32C4 32T4	RG 58 KX 15	616140	616040	282281 (M22520/2-01)	282974	6	282293 (M22520/5-01)	282246 (M22520/5-05)	A
		RG 141	-	-			8			
		RG 142 RG 223 KX 23	616141	616041			8			
		RG 174 RG 179 RG 188 RG 316 KX 22	616142	616042			7			B
		RG 178 RG196 KX 21	616143	616043			6			
		RG 180 RG 195	616144	616044			6			

COAXIAL CRIMP CONTACTS SIZE 15

CONTACT SIZE	CONTACT ARRANGEMENT	CABLE [1]	PIN [2 & 3]	SOCKET [2 & 3]	CENTER CONTACT			OUTER BODY		
					CRIMPING TOOL	POSITIONER	SEL.	CRIMPING TOOL	DIE	HEX
15	D8 26 67 32C4 32T4 33C4 33T4	RG 316 RG 179	616154	618050	282281 (M22520/2-01)	282555	2	282292 (M22520/4-01)	282556	-
		KX 22 DS	616150							
		KX 21 DS	616151	618053						
		RG 178 KX 21	616153	618054						

Notes

1. For other cable, please contact Radiall
2. Dielectric withstanding voltage at sea level: 750 Vrms
3. Extraction tool: 282946 (M81969/28-01)
4. Dielectric withstanding voltage at sea level: 350 Vrms

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CONCENTRIC TWINAX CRIMP CONTACTS SIZE 5

(DESIGN AS PER 17B9E4005 SPECIFICATIONS)

CONTACT SIZE	CONTACT ARRANGEMENT	CABLE	PIN	SOCKET
The Following Contacts have to be Installed in the Non-Environmental Inserts				
5	32C3 32T2 40C1 40T1 36C7 36T7 33C4 33T4	MIL-C-17/176-00002	616195001	616095001
		PAN 6421	616195005	616095005
The Following Contacts have to be Installed in the Environmental Inserts				
5	32C3 32T2 40C1 40T1 33C4 33T4	MIL-C-17/176-00002	616195009	616095009
	36C7 36T7		616195012	-

CONCENTRIC TWINAX CRIMP CONTACTS SIZE 9

(DESIGN AS PER 17B9E4005 SPECIFICATIONS)

CONTACT SIZE	CONTACT ARRANGEMENT	CABLE	PIN	SOCKET
The Following Contacts have to be Installed in the Non-Environmental Inserts				
9	C8 T8 32C4 32T4	MIL-C-17/176-00002	616196003	616096003
The Following Contacts have to be Installed in the Environmental Inserts				
9	C8 T8	MIL-C-17/176-00002	-	616096006
	32C4 32T4		616196004	616096004

TRIAX CRIMP CONTACTS SIZE 5

CONTACT SIZE	CONTACT ARRANGEMENT	CABLE	PIN	SOCKET
The Following Contacts have to be Installed in the Non-Environmental Inserts				
5	33C4 33T4 32C2 32T2 40C1 40T1 36C7 36T7	RGX 179	616195004	616095004
		ST5M 1323-1	616195007	616095007
		HS4863-1 HS4863-2	616195000	616095000
The Following Contacts have to be Installed in the Environmental Inserts				
5	36C7 36T7	RGX 179	-	616095010

TRIAX CRIMP CONTACTS SIZE 9

CONTACT SIZE	CONTACT ARRANGEMENT	CABLE	PIN	SOCKET
The Following Contacts have to be Installed in the Non-Environmental Inserts				
9	C8 T8 32C4 32T4	RGX 179	616196001	616096001
The Following Contacts have to be Installed in the Environmental Inserts				
9	32C4 32T4	RGX 179	/	616096002

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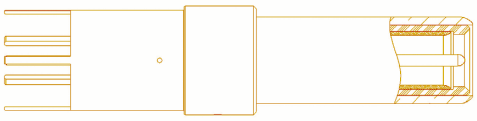
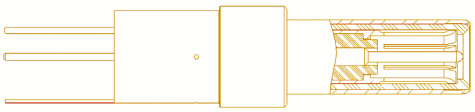
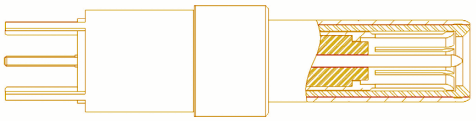
TRIAX CONTACTS WITH PC TAIL SIZE 5

The contacts shown in the table below are rear release rear removable contacts

CONTACT TYPE	PART NUMBER	CONTACT DRAWING	REAR EXTENSION FROM THE INSERT MM (INCH)
Pin	616195003		32C2, 32T2, 33C4,33T4 40C1 and 40T1 = 3.2/4.0 (0.125/0.158) 36C7 and 36T7 = 5.40/6.10 (0.212/0.240)
	616195008		

CONTACT TYPE	PART NUMBER	CONTACT DRAWING	REAR EXTENSION FROM THE INSERT MM (INCH)
Pin	616196005		C8 and T8 = 1.30/2.15 (0.051/0.085) 32C4 and 32T4 = 6.45/7.30 (0.253/0.288)
	616196007		C8 & T8 = 0 32C4 & 32T4 = 3.70/4.35 (0.145/0.172)

SIZE 8 QUADRAX CONTACTS

WIRE	TYPE	PART NUMBER (NON-ENVIRONMENTAL)	PART NUMBER (ENVIRONMENTAL)	INS/EXT TOOL
ABS1503KD24 (110 Ω)	Pin	620175010	620175011	282549001 (M81969/28.03 or M81969/14.06)
	Socket	620075010	620075011	
THERMAX 956S-4T200 GORE RCN8422 (110 Ω)	Pin	620179002	620179001	
	Socket	620079002	620079001	
TENSOLITE NF24Q100 (100 Ω)	Pin	620175050	620175051	
	Socket	620075050	620075051	
TENSOLITE NF26Q100 JSFY 18	Pin	620175021	620175020	
	Socket	620075021	620075020	

MIL-PRF-29504 fiber optic termini were developed several decades ago and are described into several MIL standard documents. They fit into standard electrical cavities and do not require specific inserts. They can replace MIL-PRF-29504/10 pin and MIL-PRF-29504/11 socket termini.

MIL-PRF-29504 CONTACTS

PIN CONTACT PART NUMBER	SOCKET CONTACT PART NUMBER	CONTACT SIZE	FIBER DIAMETER (MM)	CABLE DIAMETER (MM)	FERRULE MATERIAL
F724 005 000					

Size 12 MIL-T-29504 contacts can be available upon request, please contact your Radiall sales representative.
Note that Radiall can support you with your cable and harness assemblies. Please contact your sales representative.

ACCESSORIES

Radiall offers you a unique solution to equip your DSX connectors with EN4531 fiber optic contacts.

This solution offers the following characteristics and advantages:

- It turns a ARINC 404 size 5 or size 8 cavity into a fiber optic link
- It accepts any EN4531-101 fiber optic contacts

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SEALING PLUGS & FILLER PLUGS

Filler plugs are used in non-environmental connectors and sealing plugs are used in environmental connectors and conform to MS27488

CONTACT SIZE	SEALING PLUGS	FILLER PLUGS
Size 22	616910	620920
Size 20 HD	616911	610941
Size 16	616912	620922
Size 12	616913	616923
Size 5	See Notes	620924, 616923 [1] or 616917 [2] for Pin Contact Cavity 620925 for Socket Contact Cavity
Size 9	See Notes	616915 [2]

SEALING BOOTS

The sealing boots in table 1 are to be used in all inserts with size 5 contact cavities except 36C7 and 36T7 inserts which use the sealing bushing plus one in the sealing sleeves in table 2.

TABLE 1

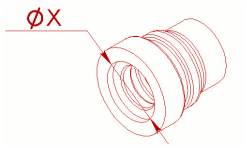
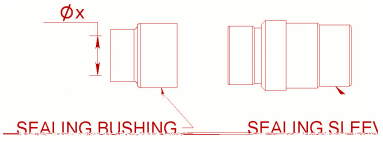
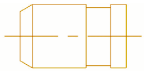
CABLE	X DIA. MM (INCH)	PART NUMBER	DRAWING
RG58, RG142	4.3 (0.169)	92505490	
RG 174	2 (0.079)	92505470	
RG 178	1.4 (0.055)	92505460	
RG180	3.1 (0.122)	92505480	
-	0	92505450	

TABLE 2

CABLE	X DIA. MM (INCH)	SEALING BUSHING	SEALING SLEEVE	PART NUMBER
RG58, RG141, RG142, RG223, KX15, KX23	4.7 (0.185)	92505590	92505591	
RG174, RG179, RG187, RG188, RG316, KX22, UT.085	2.15 (0.085)		92505593	
RG178, RG196	1.5 (0.059)		92505594	
RG180, RG195, UT.141	3.05 (0.120)		92505592	
-	0	616914010 [3]		

DUST CAPS

Conductive dust caps are made of thermoplastic and non conductive dust caps are made of polyethylene.

	CONDUCTIVE (BLACK)	NON CONDUCTIVE (RED)	DRAWING
Plug	610804	610803	
Receptacle	610806	610805	

Notes

1. 616923 is made of aluminium and is nickel-plated
2. 616917 and 616915 provide interfacial sealing on class T connectors
3. 616914010 is made of PTFE

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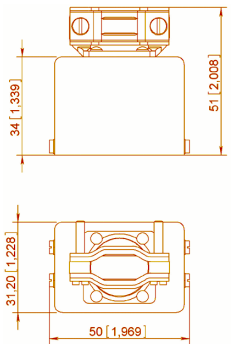
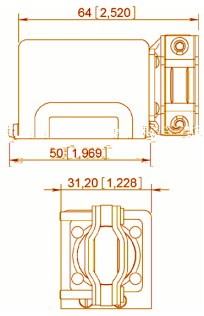
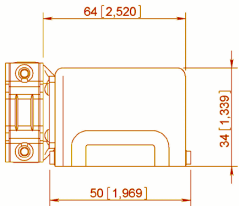
BACKSHELLS

The following backshells are only for use with SAE AS81659 and ARINC 404 shell type B connectors for the following modification codes 02-04-17-19-22-36-61-67 and 77.

Backshells do not ensure EMI functions and cannot be installed on size 4 connectors as there is limited access to screws.

ENTRY TYPE	PLATING	PART NUMBER	DRAWING
Top Entry	Yellow Anodized	610902	
	Nickel	610906	
Right Entry	Yellow Anodized	610900	
	Nickel	610910	
Left Entry	Yellow Anodized	610901	
	Nickel	610911	

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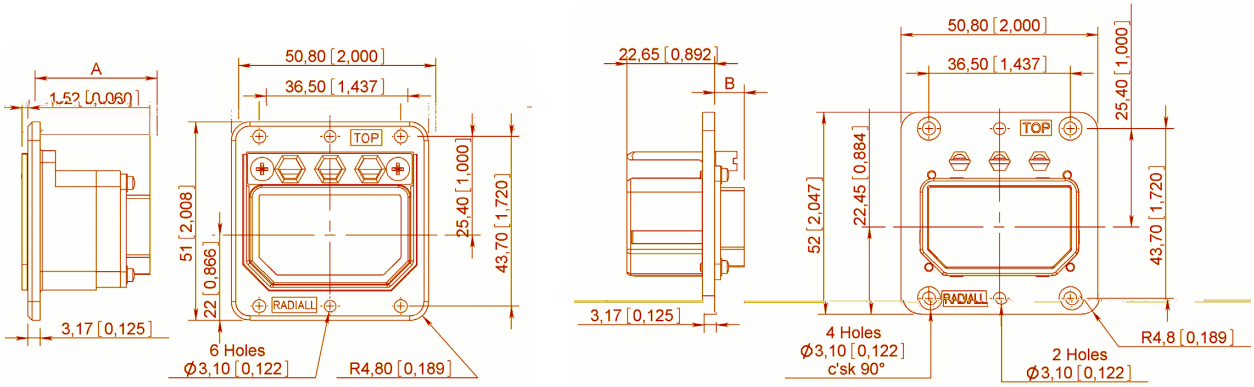
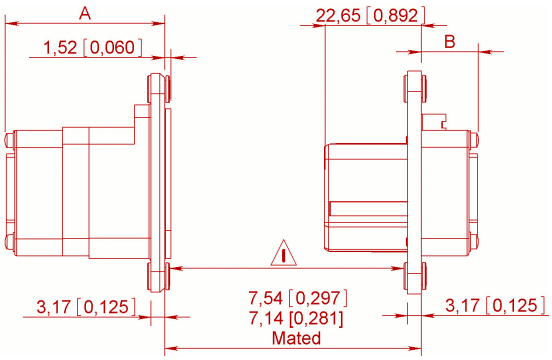
DIMENSIONS

SHELL SIZE 1 NON-ENVIRONMENTAL (WITHOUT GROMMET SEAL)



MAX DIMENSION MM (INCH)	ALL CRIMP CONTACT ARRANGEMENTS EXCEPT 106	CONTACT ARRANGEMENT 106	ARRANGEMENTS WITH COAX CONTACTS SIZE 1 & 3	CONTACT ARRANGEMENT 36C7 & 36T7	ARRANGEMENTS WITH COAX CONTACTS SIZE 5 & 9 EXCEPT 36C7
A	32 (1.260)	25.8 (1.016)	26.85 (1.057)	28.5 (1.122)	37.42 (1.473)
B	7.9 (0.311)	1.9 (0.075)	3 (0.118)	7.85 (0.309)	13.5 (0.531)

SHELL SIZE 1 ENVIRONMENTAL (WITH GROMMET SEAL)



MAX DIMENSION MM (INCH)	ALL CRIMP CONTACT ARRANGEMENTS EXCEPT MC2–MC3-106	CONTACT ARRANGEMENT 106	CONTACT ARRANGEMENT 36C7 & 36T7
A	38.5 (1.516)	33.5 (1.319)	39.05 (1.537)
B	14.2 (0.559)	9.5 (0.374)	18.55 (0.730)

⚠ *Important Note: Only 4 mm of space is available on the modification code selection.*

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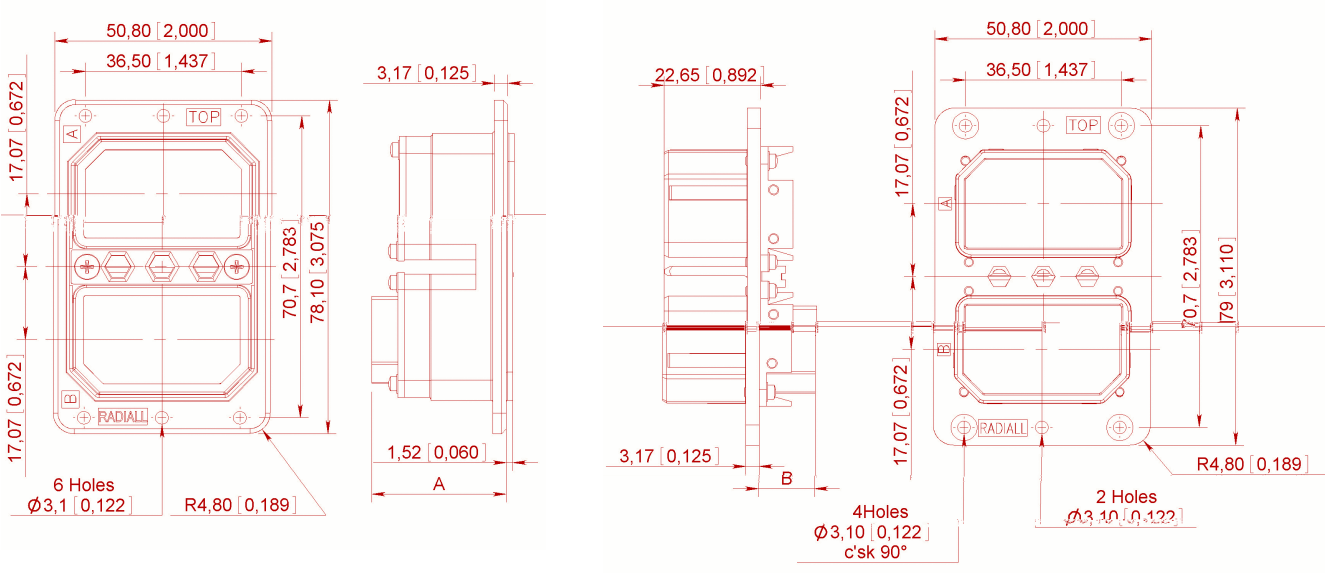
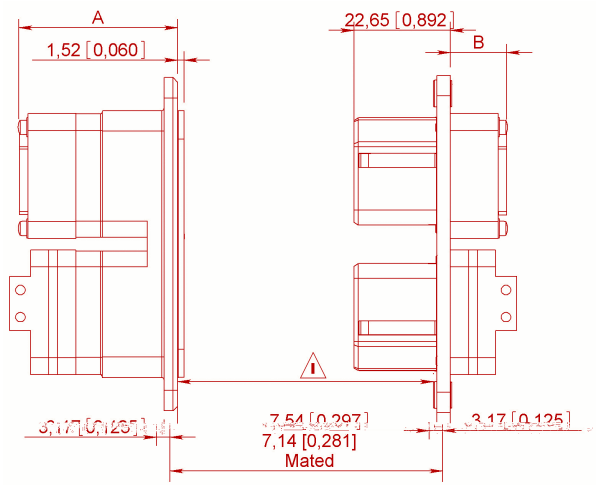
SHELL SIZE 2 NON-ENVIRONMENTAL (WITHOUT GROMMET SEAL)



MAX DIMENSION MM (INCH)	ALL CRIMP CONTACT ARRANGEMENTS EXCEPT 106	CONTACT ARRANGEMENT 106	ARRANGEMENTS WITH COAX CONTACTS SIZE 1 & 3	CONTACT ARRANGEMENT 36C7 & 36T7	ARRANGEMENTS WITH COAX CONTACTS SIZE 5 & 9 EXCEPT 36C7
A	32 (1.260)	25.8 (1.016)	26.85 (1.057)	28.5 (1.122)	37.42 (1.473)
B	7.9 (0.311)	1.9 (0.075)	3 (0.118)	7.85 (0.309)	13.5 (0.531)

SHELL SIZE 2 ENVIRONMENTAL (WITH GROMMET SEAL)



MAX DIMENSION MM (INCH)	ALL CRIMP CONTACT ARRANGEMENTS EXCEPT MC2–MC3-106	CONTACT ARRANGEMENT 106	CONTACT ARRANGEMENT 36C7 & 36T7
A	38.5 (1.516)	33.5 (1.319)	39.05(1.537)
B	14.2 (0.559)	9.5 (0.374)	18.55 (0.730)

⚠ *Important Note: Only 4 mm of space is available on the modification code selection.*

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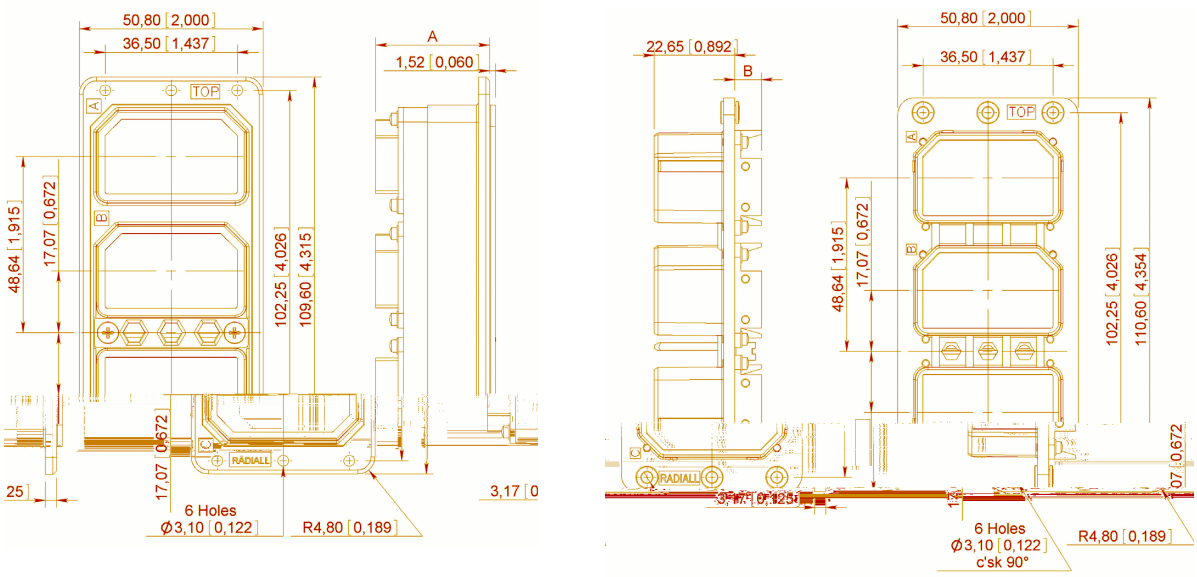
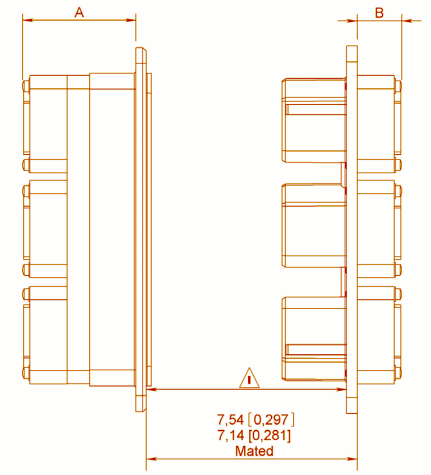
SHELL SIZE 3 NON-ENVIRONMENTAL (WITHOUT GROMMET SEAL)



MAX DIMENSION MM (INCH)	ALL CRIMP CONTACT ARRANGEMENTS EXCEPT 106	CONTACT ARRANGEMENT 106	ARRANGEMENTS WITH COAX CONTACTS SIZE 1 & 3	CONTACT ARRANGEMENT 36C7 & 36T7	ARRANGEMENTS WITH COAX CONTACTS SIZE 5 & 9 EXCEPT 36C7
A	32 (1.260)	25.8 (1.016)	26.85 (1.057)	28.5 (1.122)	37.42 (1.473)
B	7.9 (0.311)	1.9 (0.075)	3 (0.118)	7.85 (0.309)	13.5 (0.531)

SHELL SIZE 3 ENVIRONMENTAL (WITH GROMMET SEAL)



MAX DIMENSION MM (INCH)	ALL CRIMP CONTACT ARRANGEMENTS EXCEPT MC2–MC3-106	CONTACT ARRANGEMENT 106	CONTACT ARRANGEMENT 36C7 & 36T7
A	38.5 (1.516)	33.5 (1.319)	39.05(1.537)
B	14.2 (0.559)	9.5 (0.374)	18.55 (0.730)

⚠ *Important Note: Only 4 mm of space is available on the modification code selection.*

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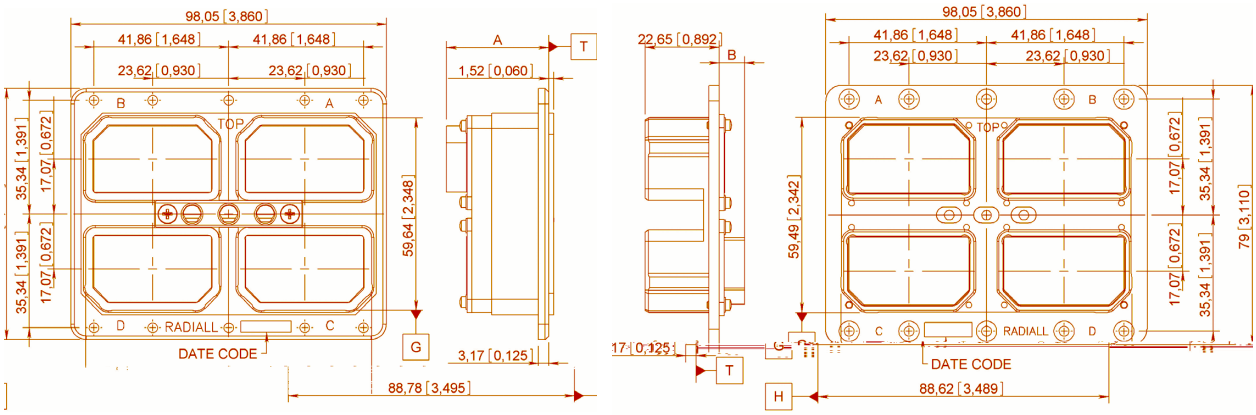
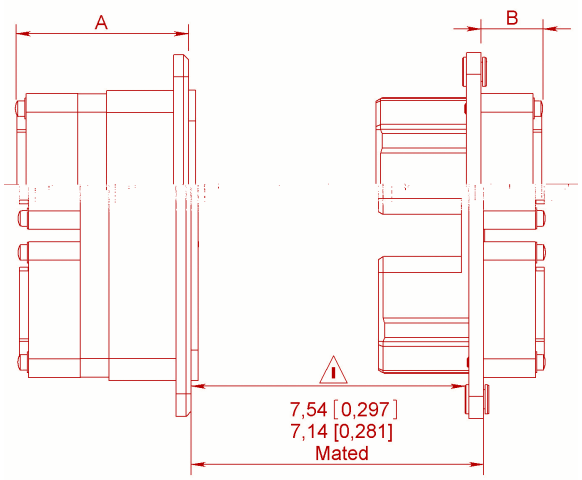
SHELL SIZE 4 NON-ENVIRONMENTAL (WITHOUT GROMMET SEAL)



MAX DIMENSION MM (INCH)	ALL CRIMP CONTACT ARRANGEMENTS EXCEPT 106	CONTACT ARRANGEMENT 106	ARRANGEMENTS WITH COAX CONTACTS SIZE 1 & 3	CONTACT ARRANGEMENT 36C7 & 36T7	ARRANGEMENTS WITH COAX CONTACTS SIZE 5 & 9 EXCEPT 36C7
A	32 (1.260)	25.8 (1.016)	26.85 (1.057)	28.5 (1.122)	37.42 (1.473)
B	7.9 (0.311)	1.9 (0.075)	3 (0.118)	7.85 (0.309)	13.5 (0.531)

SHELL SIZE 4 ENVIRONMENTAL (WITH GROMMET SEAL)



MAX DIMENSION MM (INCH)	ALL CRIMP CONTACT ARRANGEMENTS EXCEPT MC2–MC3-106	CONTACT ARRANGEMENT 106	CONTACT ARRANGEMENT 36C7 & 36T7
A	38.5 (1.516)	33.5 (1.319)	39.05(1.537)
B	14.2 (0.559)	9.5 (0.374)	18.55 (0.730)

⚠ *Important Note: Only 4 mm of space is available on the modification code selection.*

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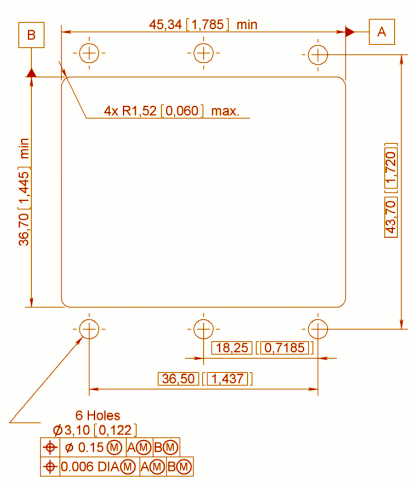
PANEL CUT-OUTS

SHELL SIZE 1



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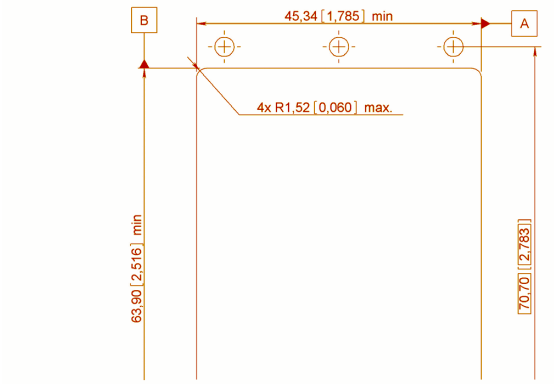
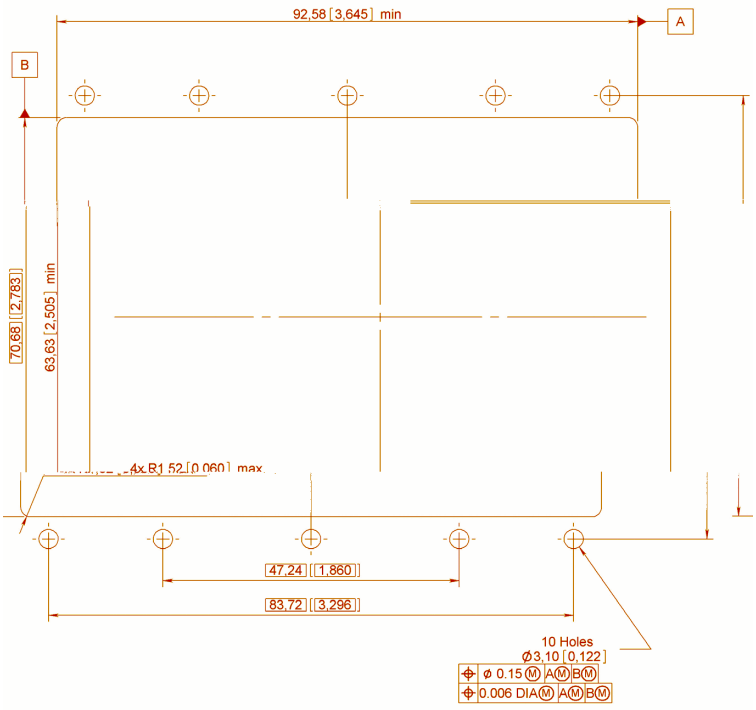


SHELL SIZE 3

SHELL SIZE 4



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CROSS REFERENCE

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616230	M3902911146
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