

Mod Code 429 for Space Application



Detail of the Atmospheric Infrared Sounder Instrument (AIRS) with Glenair Micro-D Cables and Connectors

Photo courtesy JPL

Save Time and Cost with Modification Codes for Space Grade SpeedMaster connectors

Glenair Modification Codes provide special processing for SpeedMaster to meet NASA requirements without the need for a customer 'Statement of Work' or 'Specification Control Drawing'. This section explains Glenair Modification Code ordering, and provides valuable information on outgassing and other space flight topics.

HOW TO ORDER SPACE GRADE SPEEDMASTER CONNECTORS

Step 1: Find a Standard SpeedMaster Part Number

Electroless nickel plated shells and Tefzel® wire are preferred for space flight. Cadmium plating is prohibited.

Step 2: Select a NASA Screening Level

The term "Screening Level" refers to the final inspection procedure and does not include outgassing.

Level 1 for mission-critical highest reliability

Level 2 for high reliability

Level 3 for standard reliability

Step 3: Outgassing Processing

Specify bakeout or thermal vacuum outgassing. Both bakeout and thermal vacuum outgas processes incur additional cost.

Step 4: Select Appropriate Modification Code.

Match the desired level of screening, outgassing or a combination of both. Select from the table below to choose the right modification code. Add the modification code to the connector part number. Example: 233-219-G6ME11-1AN-**429C**

SpeedMaster Outgas data				
Component	Material	TML%	CVCM%	Test Reference
Inner & Outer Insulator	Natural, Unfilled PPS	0.07	<0.01	Glenair test at Pacific Testing Laboratories 2-22-2022 TR73209
Rear Insulator (PC Tail SpeedMaster Only)	PTFE	0.01	0.00	NASA Outgassing Data for Selecting Spacecraft Materials
Epoxy (PC Tail SpeedMaster Only)	No. 1 Vary Flex	0.29	0.01	NASA Outgassing Data for Selecting Spacecraft Materials
O-Ring & Cable Grommet	70/30 Fluorosilicone/ Silicone Blend per GPS78 Grade 40	0.12	0.02	Glenair test at Pacific Testing Laboratories 6-17-2020
Ink Marking	Video Jet Ink 16-5900Q	0.74	0.04	NASA Outgassing Data for Selecting Spacecraft Materials