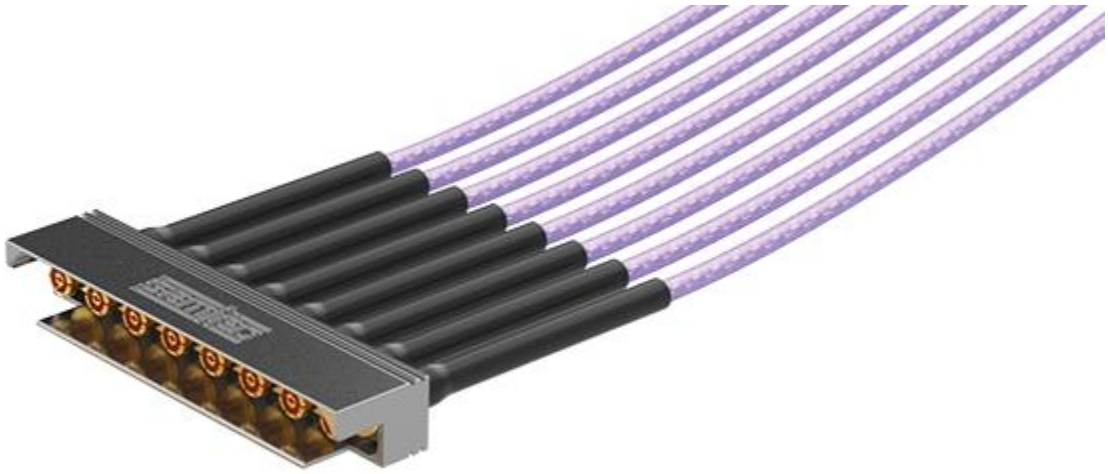
Series: SMPM, Jack, Ganged Cable Assembly, 50 Ω



Part Number:

GC47-X-XX-XXXXXX-XXXX

CABLE CALLOUT
-47: CCA-047-PFA CABLE

NO. OF ROWS
-1

NO. OF POSITIONS
-2, 4, 6, 8, 10
(SEE TABLE 5)

END 2 CONNECTOR
(SEE TABLE 2, SHT 2)
-BLANK: DOUBLE ENDED GC47

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS)
(0100 MIN)

MATERIAL AND FINISHES

Connector part	Material	Finish
Body	Beryllium Copper	50µ" Gold over Nickel
Bead(s)	Ultem 1000	N/A
Pin	Beryllium Copper	50µ" Gold over Nickel
Housing	Beryllium Copper	50µ" Nickel

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ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 50 GHz
VSWR [1]	DC to 26.5 GHz: 1.25:1 Max. 26.5 GHz to 40 GHz: 1.45:1 Max. 40 GHz to 50 GHz: 2:1 Max.
Insertion Loss[2]	$0.04\sqrt{F(GHz)}\ dB$ Max.
Insulation Resistance	5000 MΩ Min.
Voltage Rating (Sea Level)	170 Vrms Max.
DWV[3]	325 Vrms Min. (sea level)

[1] VSWR per connector when tested on Samtec multi-layer test PCB. Full Detent recommended for optimal performance.
[2] Single connector insertion loss only.

MECHANICAL DATA

Mating Interface [3]	IAW MIL-STD-348, Figure 328-2 & 328-3
Mating Cycles	Full Detent: 100 cycles Smooth Bore: 500 cycles
Engagement Force[4]	Full Detent: 4.5N (1 lbs.) Typ. Smooth Bore: 3.5N (0.75 lbs.) Typ.
Disengagement Force[4]	Full Detent: 4.5N (1 lbs.) Typ. Smooth Bore: 2N (0.5 lbs.) Typ.
Radial Misalignment	+/- 0.025cm (0.010”) Min.
Axial Misalignment	0.025cm (0.010”) Max.

[3] Compatible with GPPO™ and SMPM interfaces.
[4] Force rating per channel.

ENVIRONMENTAL DATA

Temperature Range	-65 to +165°C
Thermal Shock	MIL-STD-202-107, Condition B, high temperature +165°C per DSCC 10019
Vibration (High Frequency)	MIL-STD-202-204, Condition D per DSCC 10019
Vibration (Random)	MIL-STD-202-214, Condition F per DSCC 10019
Mechanical Shock	MIL-STD-202-213, Condition I per DSCC 10019

Series: SMPM, Jack, Ganged Cable Assembly, 50 Ω

REFERENCED DOCUMENTS

Interface	Drawing & Footprint
GC47	GC47-X-XX-XXXXXX-XXXX

USE OF PRODUCT SPECIFICATION SHEET

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