

DO NOT SCALE FROM THIS PRINT

THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

LL095-XXXX-XXXXXX-XXXX-X-XX

CABLE CALLOUT
LL095: MWC-LL095-FAA1-0

END 1 CONNECTOR
(SEE TABLE 2, SHT 2)

END 2 CONNECTOR
(SEE TABLE 2, SHT 2)

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS)
(0100 MIN)
(SEE NOTE 7)

NO. OF PHASE MATCHING CABLES
-XX: (XX CABLE FOR THIS PART NUMBER)
(XX CAN BE 02 TO 16)
-BLANK: 1 CABLE FOR THIS PART NUMBER, ONLY AVAILABLE WITH NO PHASE MATCHING OPTION

PHASE MATCHING SPEC (RANGE)
-1: 1 PICO-SECOND
-2: 2 PICO-SECONDS
-5: 5 PICO-SECONDS
-BLANK: NO PHASE MATCHING

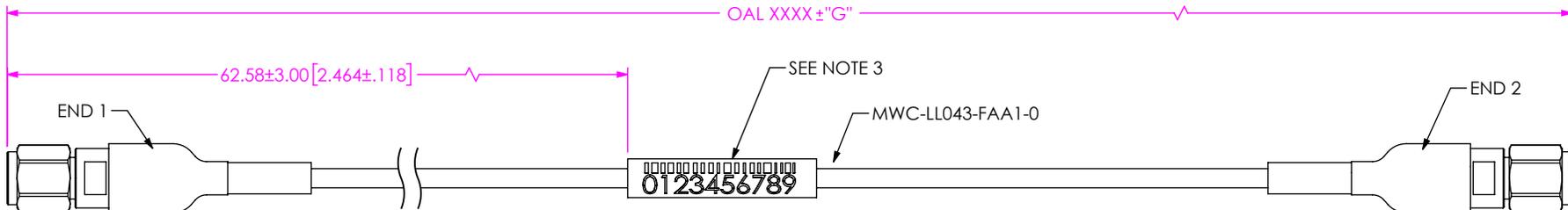


FIG 1
LL095-10SP-10SP-XXXX SHOWN
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

TABLE 1	
OVERALL LENGTH	"G"
0100-0300 [5.98-11.81]	+5.0 [.20] / -0.0 [.00]
0301-1500 [11.85-59.01]	+12.0 [.47] / -0.0 [.00]
1501-3000 [59.09-118.11]	+25.0 [.98] / -0.0 [.00]
3001-7500 [118.15-295.28]	+50.0 [1.97] / -0.0 [.00]
7501-9999 [295.31-393.67]	+1% / -0.0 [.00]

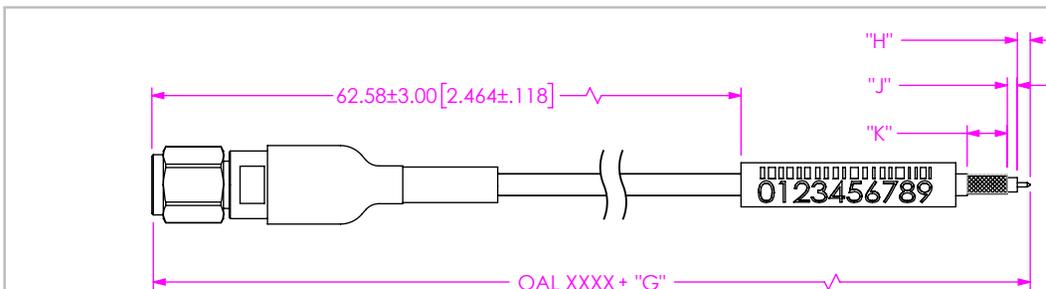


FIG 2
LL095-10SP-102030-XXXX SHOWN (SEE NOTE 7 & 8)

"K" FORMAT: X.X
"J" FORMAT: X.X
"H" FORMAT: X.X

DO NOT LEAVE ANY SPACE BLANK, EACH MUST CONTAIN A NUMERIC CHARACTER 0 THRU 9

NOTES:

- CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
- CABLE ASSEMBLY TO HAVE PROTECTIVE CAPS ASSEMBLED ON EACH END AND INDIVIDUALLY PACKAGED IN ESD BAG.
- ASSEMBLY TO BE 100% TESTED FOR RETURN LOSS AND INSERTION LOSS. LABEL EACH INDIVIDUAL CABLE ASSEMBLY WITH 1 LABEL-SER-02. RETURN LOSS SPECIFICATION IS EQUAL TO THE HIGHEST END OPTION LIMIT.
- CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
- DIM "H", "J", AND "K" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm [.39"].
- FOR STRIPPED AND TINNED OPTION, BOTH THE CENTER CONDUCTOR IS TINNED.
- USE 3 DIGITS XXX (MILLIMETERS) FOR PHASE MATCHING OPTION. 999MM MAX LENGTH

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MATERIAL: CENTER CONTACTS: COPPER ALLOY
-92SP/-92BJ/-24BJ: STAINLESS STEEL

OUT CONTACTS: -92SP/-92BJ/-24BJ: STAINLESS STEEL

INSULATORS: -92SP/-92BJ/-24BJ: ULTEM, KEL-F

DO NOT SCALE DRAWING SHEET SCALE: 3:1



520 PARK EAST BLVD, NEW ALBANY, IN 47150
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DESCRIPTION: LL095 CABLE ASSEMBLY

DWG. NO. LL095-XXXX-XXXXXX-XXXX-X-XX

BY: MATT M. 4/3/2024 SHEET 1 OF 4

TABLE 2								
END OPTION	SERIES	GENDER	FINISH			SUBTRACTOR "D"	CONNECTOR KIT P/N	FIGURE
			CENTER CONTACT	OUTER CONTACT	SOLDER FERRULE			
-10SP	1.0 MM	PLUG	50µ" GOLD	PASSIVATED	10µ" GOLD	7.69 [.303]	PRF10-P-C-VP-095B-SS	SHT 3, FIG 3
*-M0SJ	SMPM	JACK	50µ" GOLD	50µ" GOLD	10µ" GOLD	3.92 [.154]	PRFM0-J-C-EE-095B-SD	SHT 4, FIG 5
**SING	SINGLE ENDED	-	-	-	-	-	-	-
**XXXXXX	STRIPPED & TINNED	-	-	-	-	-	-	SHT 1, FIG 2

** = END 2 OPTION ONLY
* = NOT RELEASED

TABLE 3					
END OPTION	MAXIMUM VSWR (PER END)	MAXIMUM RETURN LOSS (PER)	MAXIMUM INSERTION LOSS (IL) (PER END)	FREQUENCY	PROTECTIVE CAP COLOR
-10SP	1.183	21.53	.03+.045*SQRT(Freq[GHz])	DC TO 90 GHz	WHITE
	1.225	19.90		90 TO 95 GHz	
*-M0SJ	1.162	22.51	.03+.045*SQRT(Freq[GHz])	DC TO 40 GHz	GRAY
	1.225	19.90		40 TO 65 GHz	

IL Max [dB] for cable assembly:

$$= \{27.0469*\sqrt{F+0.2771*F+0.000000172*F^4}\} * OAL[mm]/30480 + \text{End Option IL\#1}\{\text{See Table 3}\} + \text{End Option IL\#2}\{\text{See Table 3}\}$$

WHERE F IS FREQUENCY IN GHZ

* = NOT RELEASED

F:\DWG\SW\Exisprod\Assembly\RF\RF Cable Assemblies\LL095-XXXX-XXXXXX-XXXX-X-XX.slddrw

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	<p>DESCRIPTION: LL095 CABLE ASSEMBLY</p>	
	<p>DO NOT SCALE DRAWING</p> <p>SHEET SCALE: 4:1</p>	<p>DWG. NO. LL095-XXXX-XXXXXX-XXXX-X-XX</p> <p>BY: MATT M. 4/3/2024 SHEET 2 OF 4</p>

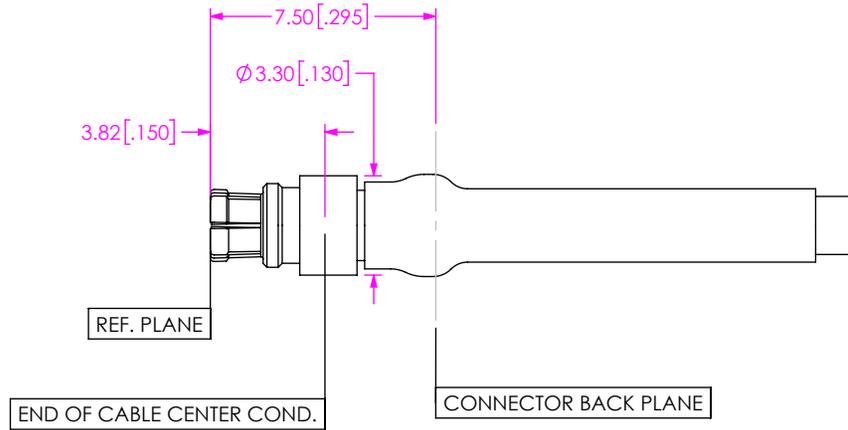


FIG 5
 -M0SJ SHOWN
 (PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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