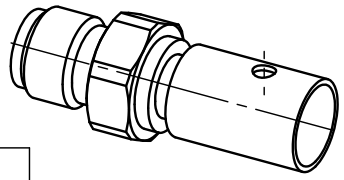
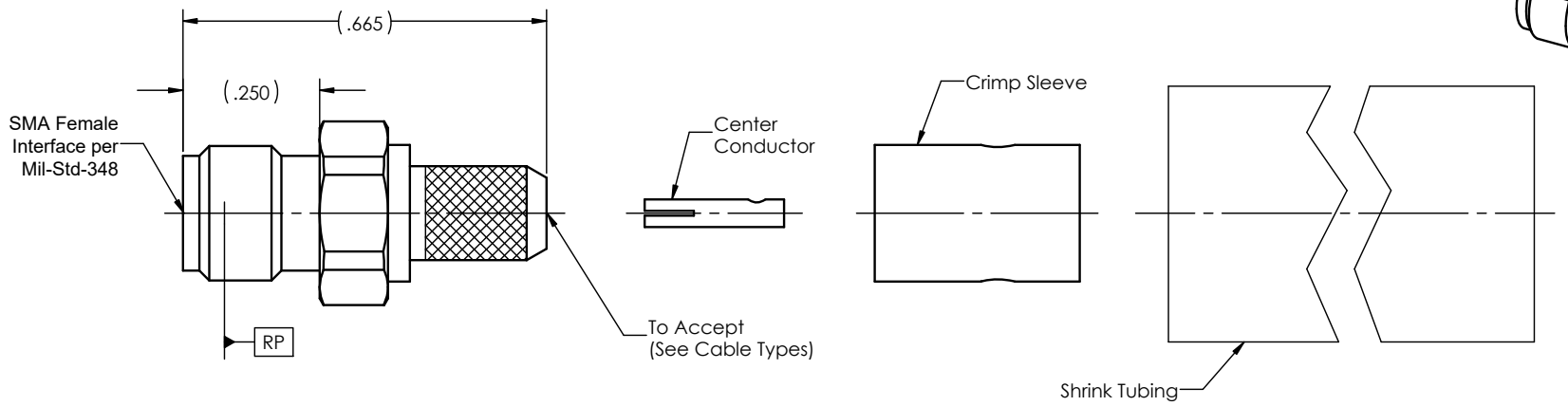
PART NO.	CABLE TYPE
-1	RG 55, 142, 223, 400, 58, 141, 303
-1SF	RG 55, 142, 223, 400, 58, 141, 303

RoHS 3 Compliant EU 2011/65

REVISION HISTORY				
ECO	REV.	DESCRIPTION	DRAWN BY	DATE
	A	ECO 19554 (SEPERATED DWGS)	DKN	04/18/2006
	B	ECO 202352 (ADD NEW NAME)	DKN	11/22/2024
204093	C	REDRAW WITH CHANGE	DKN	7/21/2025





NOTE(S) :
1. ALL ITEMS TO BE PACKAGED & SHIPPED UNASSEMBLE.

MATERIAL(S):

Body:
303 SST per ASTM A582
Center Conductor:
BeCu Alloy per ASTM B196
Insulator:
PTFE Teflon per ASTM D1710
Crimp Sleeve:
Brass Alloy per ASTM B16
Shrink Tubing:
Tube per AMS-DTL-23053

ELECTRICAL(S):

Impedance: 50 Ohms Nominal
Frequency Range: DC to 18.0 GHz
VSWR: 1.35:1 max @ 18GHz
Insertion Loss: .30 dB max @ 18GHz
Working Voltage: 335 Vrms max @ Sea Level
Dielectric Withstand Voltage: 1,000 Vrms min.
RF HiPot Voltage: 670 Vrms min. @ 5MHz
Corona Level: 250 Vrms @ 70,000 ft
Insulation Resistance: 5,000 MegOhms min.
RF Leakage: -60 dB min. @ 2 - 3 GHz
Contact Resistance:
Center Contact: 3.0 Milliohms max
Outer Contact: 2.0 Milliohms max

MECHANICAL(S):

Mating Characteristics:
Interface per MIL-STD-348
Force to Engage & Disengage:
Torque: 2 inch-lbs max
Longitudinal Force: NA
Center Contact Retention:
Axial Force: 6 lbs min.
Cable Retention Force:
Single Braid: 40 lbs min.
Double Braid: 45 lbs min.
Connector Durability:
500 Cycles min. @ 12 cycles/minute max
Permeability: Less than 2.0 mu.

ENVIROMENTAL(S):

Temperature Range: -65°C to +165°C
Thermal Shock:
MIL-STD-202, Method 107, Test Condition B
Moisture Resistance:
MIL-STD-202, Method 106, Insulation resistance at least 200 MegOhms within 5 minutes after removal from humidity.
Corrosion:
MIL-STD-202, Method 101, Test Condition B
Vibration:
MIL-STD-202, Method 204, Test Condition D
Shock:
MIL-STD-202, Method 213, Test Condition I

FINISH(ES):

Center Conductor:
Gold plate per ASTM B488, Type II, Code C, Class 1.25, over Nickel plate per SAE AMS-QQ-N-290, Class 1.
Body:
(For SF's): Passivate per ASTM A-967 or SAE AMS 2700
(For Basic): Gold plate per ASTM B488, Type II, Code C, Class 0.25, over Nickel plate per SAE AMS-QQ-N-290, Class 1.
(for NP's): Nickel plate per SAE AMS-QQ-N-290

APPLICABLE Amphenol CDI DOCUMENTS

WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	AI-109

TOLERANCES AND NOTES
EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES.
LINEAR .XX ±.015 / .XXX ±.005
FRACTION ± 1/32 ANGULAR ± 1/2°
1. INTERPRET DRAWING PER ASME Y14.5 - 2018
2. MACHINE FINISH: 63 RMS
3. BREAK ALL SHARP EDGES .003 MAX.
4. MACHINED FILLETS .005 MAX.
5. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
6. MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R.
7. DIMENSIONS TO BE MET AFTER PLATING.
8. CHAMFER ALL THREADS 45°.
9. THREADS PER H-28
10. REMOVE FRAYED EDGES ON TEFLON.
11. REMOVE ALL BURRS.

MATERIAL		
APPROVAL	INITIALS	DATE
DRAWN BY	IMG	04/08/2002
CHECKED BY	-	-
TEST ENG	-	-
QUALITY	-	-
DESIGN ENG	ATV	09/08/2006
MFG ENG	-	-
ECO APPRV	DNg	7/22/2025

SPECIFICATION: -
PROCUREMENT: -

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMA FEMALE STRAIGHT TO FLEX CABLE (CRIMP OR SOLDER ATTACHMENTS)

SCALE	SUB-DIRECTORY/	SHEET	OF
8:1	_OUTLINE/	1	1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	OL_5720-1	C

ENG-SW REV. K