

MILITARY SPECIFICATION

**CABLES, RADIO FREQUENCY, FLEXIBLE AND SEMIRIGID,
 GENERAL SPECIFICATION FOR**

This amendment forms a part of MIL-C-17G, dated 9 March 1990, and is approved for use by all Departments and Agencies of the Department of Defense.

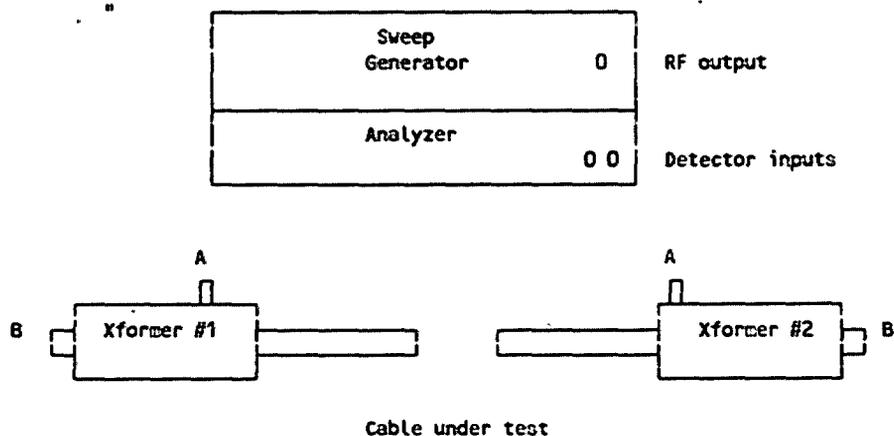
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3.8, line 2: Delete "manufacturer's code symbol and name" and substitute "manufacturer's code symbol or name, and date code".

3.8b, item (2), add new sentence at end of entry: "If additional marking is possible, the remainder of the required military marking shall be applied."

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FIGURE 8, delete and substitute new figure 8 as printed below:



Port A and B are series N connectors, remaining two are twinaxial.

FIGURE 8. Transmission unbalance."

4.8.13.4, delete and substitute the following:

"4.8.13.4 Transmission unbalance test procedure. The following test procedure or one suitable to the Government shall be used for measuring transmission unbalance. In the event of conflict, the following method shall be the referee test.

Equipment used: Sweep generator (set to sweep 100-160 MHz).
Analyzer and printer.
1 or 2 RF detectors.
2 Telplex (Alford) transformers w/calibration device.
1 or 2 50-ohm loads.

Procedure:

1. Detectors shall be calibrated to obtain a zero reference line.
2. Connect the RF output of the generator to port A or B of transformer #1.
3. To the other port place a 50-ohm load.
4. Connect the calibration device between the two transformers.
5. To transformer #2, connect the RF detector from port A of the analyzer to port A of the transformer and a 50-ohm load to port B.
6. If a second RF detector is available, then connect it from port B of the analyzer to port B of the transformer.
7. Obtain a trace on the analyzer from port A. If two detectors are used, then obtain two traces on the analyzer.
8. Calculate the minimum difference between the two traces in dB and using the following formula determine the unbalance. This number should be approximately 50-51 dB which equals less the 1% unbalance.

$$TUB \% = \frac{200}{(\text{antilog}_{10} \frac{\text{dB difference}}{20})}$$

9. Change the detector from port A of the transformer to port B, and the load to port A.
10. When these are printed, the resulting unbalance shall be calculated as in step 7 above.
11. Remove the calibration device and place the cable to be tested between the two ports of the transformer.
12. Repeat steps 5-10, as appropriate.
13. See table X for the minimum unbalance allowable."

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4.8.32, Irradiance entry: Delete ".nm". Also for Arc Lamp off entry: Delete "35 ±2°C" and substitute "25°C ±2°C".

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85

Preparing activity:
DLA-ES

Review activities:

Army - AR, AT, ME, MI
Navy - AS, MC, OS, SH
Air Force - 17, 19, 99
NASA - NA
DLA - IS

(Project 6145-2026)