

ITEM Nomenclature: **WIRE NO.1 TO OFAJ DRG.NO.FS-2800B**

1. Wire No.1 is to be manufactured as per OFAJ drawing number FS-2800B (standard X10-601).

2. Firm has to submit pre-inspection original test certificates for following parameters from NABL accredited / PSU / Govt. approved lab/OEM certificates, along with supplied material.

(i) Wire configuration: - Wire, electric, crosslinked polyalkene insulated, silver-coated copper alloy, light weight, 600 volts (Figure 1 of FS-2800B, Sheet 2)

(ii) Wire size AWG (mm²) - 26 (0.15) Strand of Silver plated copper alloy

(iii) Conductor stranding x AWG - 19 x 38

(iv) Diameter of stranded conductor, Max Inch (mm) - 0.020 (0.51)

(v) Resist at 20o, Max ohms/1000 ft (305 m) - 44.8

(vi) Diameter, Inch (mm) - 0.034 +/- 0.002 (0.86 +/- 0.05)

(vii) Weight, Max lbs/1000 ft (kg/100 m) - 1.4 (0.208)

(viii) Voltage rating at sea level - 600 V (rms)

(ix) Operating temperature range - (-65 degree C to +150 degree C) Ambient temperature +125 degree C max when kept in bundle and loaded conductors. Conductor temperature exceeding +110 degree C, special precautions shall be taken to preclude cut-through to the wire.

(x) Insulation resistance Min. - 5000 megohms - 1000 ft (305 m)

(xi) Surface resistance - 500 megohms/inches

(xii) Colour - Blue = 6 (Colour designations according to MIL-STD-681, system 1)

3. Firm has also to supply certificate of quality conformance for all the components along with test results.

4. Firm to take all necessary precautions for proper packaging and surface protection to avoid Corrosion, Damage during handling, Transporting and Storage.

5. Material will be subjected to surveillance quality check and performance trial at OFAJ.

6. MIS will be sentenced within one month after receipt of component at OFAJ.

7. OFAJ team may visit the firm for Process/quality Audit.