

Dt. 04/04/2023

**TECHNICAL SPECIFICATION OF ANNEALED TINNED COPPER WIRE (ATC) FOR
FIELD TELEPHONE CABLE JWD-1**

1. The diameter of the tinned copper wire shall be 0.285 to 0.295 mm dia. The wire shall be supplied on 5 Kg reels (As per OCF-SK-13A).
2. The copper wire shall withstand the annealing test in accordance with IS-10810 (part – 1) – 1984. The elongation shall not be less than 13.5%.
3. The tinned copper wire shall withstand Per – Sulphate test in accordance with IS -10810 (Part – 4) Method B. The mass of copper dissolved shall not exceed 5 gm /m sq.
4. Pure ETP copper shall meet chemical composition as per IS-12444-1988. Supplier shall submit a dimensional, mechanical properties test report from QC lab & chemical composition certificate from NABL accredited Lab along with each consignment. Pure Tin as per IS 26 (1992) shall be used for coating to maintain quality of tinning.
5. The above material is to be supplied evenly wound on 5 Kg reels (to be supplied by OCFC) in single length. There should not be any overlapping of joints throughout the length. Joint, if any shall be made by silver solder (60:40) and it should be a butt joint. Thereafter the joint shall be polished using emery paper. Surface of ATC shall be smooth, free from dirt & pin holes.
6. The 5 kg reels will be supplied by OFCd. The freight charges have to be borne by the supplier for collecting the reels after depositing required security deposit for the cost of the reels.
7. The wire shall be wound on the reels as per diagram at the back of this page. It shall be evenly wound. The turns shall not collapse one over the other thus entangling the wire & rendering it unusable in which condition the store shall be rejected.
8. Weight measurement : Vendor will fix a sticker on each rewind reel, clearly mentioned lot number, Serial number of reel in that lot , empty reel weight, rewind reel weight (after rewinding of ATC) & ATC weight. Final weight must be put with an accuracy of 2 gm on a dully calibrated weighing scale. Vendor will supply a list along with lot, which must clearly mention about serial number wise empty reel weight, rewind reel final weight & ATC weight. ATC total weight of that lot may be mentioned in the bottom row of list.
9. Reels should be wrapped with suitable packing material to protect the Fine copper wire from damage during transportation / material handling.
10. On receipt of lot, OFCd will follow sampling plan as per IS 2500 (Part 1): 2000, for both quality as well as for weight measurement. If the weight of reels is found below the allowable tolerance of 2 gms of ATC, then in that case average lesser weight of ATC of sample reels will be calculated, correspondingly that average lesser weight will be deducted from all reels of lot & final payment will be made as per the new calculated weight.


HOS/QC

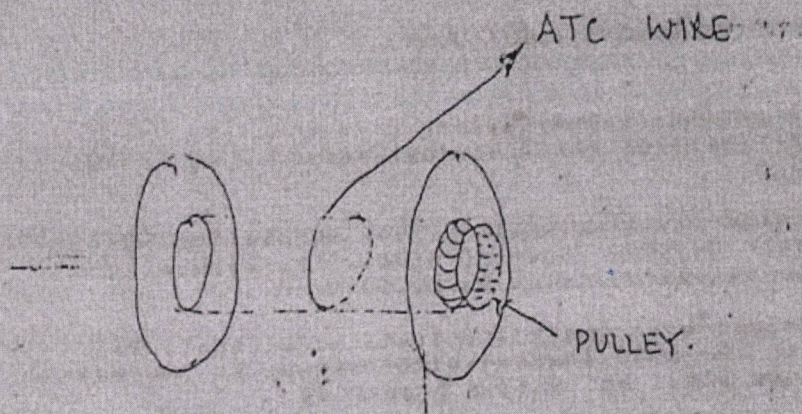

JWM/ STANDARD CELL


JWM/WD

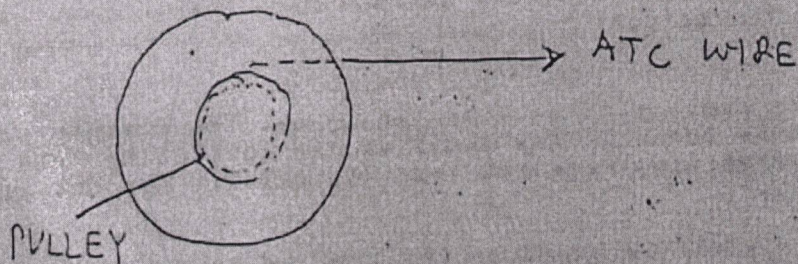
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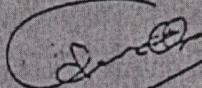


FRONT SKETCH
OR



SIDE SKETCH

~~TM~~
WM/P
(FOR OCFC)


(AWM/QA)
FOR OCFC