

East Valley

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Temporary Memorandum
Western Electric Company, Incorporated
Installation Engineering - Kearny

T.M. 8.70

7-10-68

CONDUIT

OVERSIZE 3/4" ALUMINUM

1. GENERAL

1.1 A quantity of KS-5351 3/4" aluminum conduit has reached the field that may present an installation problem when an attempt is made to fit it into electrical Kondu fittings. The outside diameter of the conduit is between 6 and 7 thousands of an inch larger than the inside diameter of the Kondu fitting opening.

1.2 A review of the Standards for conduits and fittings reveals that the Conduit Standard specifies a nominal outside diameter with plus and minus tolerances but the Fitting Standard does not specify corresponding dimensions to insure correct mating of parts.

2. MATERIALS REQUIRED BY THE INSTALLER

2.1 R-3163 Abrasive Paper or equivalent
R-1482 6" Flat File

3. ACTION TO BE TAKEN

3.1 If difficulty is encountered to where conduit will not fit into the Kondu Fitting and tighten properly, it will be necessary to remove a small quantity of metal from the end of conduit. Use R-1482 File or R-3163 Abrasive Paper. This modification has already proven to be a practical solution on some jobs, however, should the amount of metal to be removed prove excessive or should the quantity of conduit ends be great enough, replacing conduit may be requisitioned through established Company Instruction routines for defective material.

4. ACTION TO PREVENT RECURRENCE

4.1 The Bell Telephone Laboratories Engineers responsible for Conduit and Fittings have written letters to the "United States of America Standards Institute" explaining the problem and have requested that on a nationwide industry basis, dimensions and tolerances for Conduit be established and made compatible with the Manufacturing Standards for Electrical Conduit Fittings.

5. DISPOSITION OF EXPENSE

5.1 The work outlined above shall be considered a normal job operation and should not be reported to the Area Planner for issuance of a supplementary estimate.

Manager, Product Engineering

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