



## ELECTRICAL MACHINERY OR EQUIPMENT

### Tube-type optical fibre unit

In conventional optic overhead ground wire units, aluminium tubes were used to house optical fibres. Switching the tube material to stainless steel has enhanced the reliability of the unit.

Because stainless steel tubes have higher crush resistance than their aluminium counterparts, the wall thickness can be lower. This allows the density of optical fibres to be increased. The diameter of the stainless steel unit remains the same as its aluminium counterpart.

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**LOCATION/ENVIRONMENT** JAPAN/OUTDOOR AND INDOOR

**PRODUCT** STAINLESS TUBE-TYPE COMPOSITE FIBRE OPGW

**FABRICATION PROCESS** COLD ROLL FORMING, WELDING, TUBE DRAWING

**GRADE** 304

**SURFACE**

**COMPETING MATERIAL** ALUMINIUM

**DATE OF COMPLETION**

**MANUFACTURING COMPANY** VARIOUS ELECTRIC WIRE MANUFACTURERS

**MATERIAL SUPPLIER** NISSHIN STEEL/NIPPON KINZOKU

**SOURCE OF INFORMATION** JSSA

**REMARKS**