INSTALLATION INSTRUCTION FOR FIBRE OPTIC CABLE THROUGH JOINT

The incoming main cable (26) shall have been laid and stage 1 tested, leaving in excess of 4.5 metres of cable above the gland plate (20). This will be sufficient for terminating.

The gland plate (20) shall be fitted into the Cabinet 609D (1) using bolts with nuts & washers (21).

The outer sheath shall be stripped off to a sufficient length to allow the gland with earth tag and locknuts (22) to be fitted. This shall in turn be fitted to gland plates. Markers (25) shall be attached to the cable, showing Motorway number and destination.

A 6 Sq.mm earth wire with crimped lugs at either end (23) shall be fitted between the gland earth tags and the cabinet earth bolt (24).

The cable inner sheath shall be stripped back to allow the heatshrink glands (18) to be fitted. Note detail "A".

The two enclosures (3a) and (12) shall be fitted to the backboard using the bolts, nuts and washers (17), the heatshrink glands secured and the seal (2) fitted.

TERMINATION OF FIBRES

The cassette assembly (4) shall be riveted to the backplate (3) and this fitted within the upper enclosure together with the self adhesive saddles (5)

The steel strength member shall be cut off 50mm above the gland and insulated.

Each fibre shall be taken one and one quarter turns around the enclosure before removing its hard tube. A length of PTFE tubing of the same colour (7a) shall now be fitted ensuring that it extends 50 – 100mm inside the existing hard tube. The PTFE tubed fibre shall now make three quarters of a turn around the enclosure and enter the cassette. The fibres shall be secured by saddles (5).

A fibre marker (7b) and a rubber spacer sleeve (8) shall be fitted at the cassette entry. The PTFE tube shall extend into the cassette by 25mm. The sleeve shall be glued to the PTFE tube and the cassette using Cyanoacrylate Adhesive.

Note: A rubber sleeve of suitable dimensions is not commercially available. This may be made by using a test lead with the conductor removed.

A conventional fusion splice shall be made and a protector fitted (6) the same colour as the fibre tube and secured in place with silicon rubber. The surplus primary coated fibre shall be stored within the cassette. Fibre No 1 shall be in the outermost cassette, i.e. nearest the enclosure lid.

After all the splicing, jointing and terminating has been completed, a desiccant pack (27) shall be placed in each enclosure and the lids fitted. A laser warning symbol to BS 5378 (3c) shall be attached to the upper enclosure lid.

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TITLE OF CABLE CASSETTE TERMINATION ARRANGEMENT IN HA TYPE 609 CABINET – NOTES

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ±1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

DRN C.S.G. CHKD B.D.
DATE 25.09.01 DATE 29.09.01

SCALE N.T.S.

DRG. NO. NDX1034-02no

SHT. NO. 6 of 6