

Ref:	NR/L2/ELP/27009/MOD C16
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OVERHEAD LINE CAMPAIGN CHANGES – DATA SHEET	
16	REPLACEMENT OF BUTYL RUBBER U/BR AND IN SPAN ROD INSULATION PRONE TO ULTRA VIOLET DEGRADATION
COMPONENT	Butyl rubber bridge arms and in span rod insulators.
PROBLEM	<p>Insulators with butyl rubber coating are vulnerable to tracking damage. This will cause degradation of the insulator and loss of its electrical properties, leading to flashover and de-wirement.</p> 
ACTION REQUIRED	<p>1. Replace insulator with equivalent silicon rubber or PTFE types, 121/271/001 (claw ended bridge arm) and 121/006/004 (tension insulator).</p> 

Reference Information	
Ellipse standard job number	13016
Ellipse standard job description	Replace butyl rubber U/Br and in span rods
Category	Insulators
Priority	No
Types of OLE affected	Mk1; Mk3; Mk3a; Mk3b
Original equipment dates	1969-1980



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16

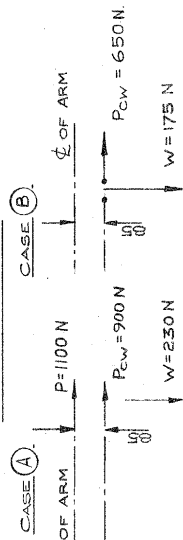
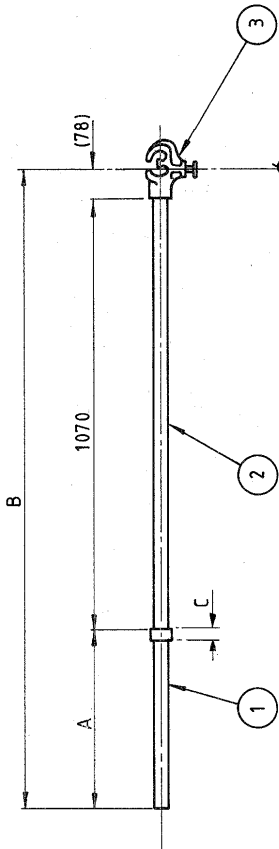
REPLACEMENT OF BUTYL RUBBER U/BR AND IN SPAN ROD INSULATION PRONE TO ULTRA VIOLET DEGRADATION

111 108 / 8

REF. NO.	SEE TABLE
MATL.	SEE TABLE
SPEC.	SEE TABLE
FINISH.	SEE TABLE
MASS.	SEE TABLE

ASSEMBLY REFERENCE NO.	DIM. A	DIM. B	DIM. C	LENGTH OF TUBE	MASS (kg)
121 271 001	565	1713	65	500	9.07
121 271 002	900	2048	60	840	9.34

NORMAL MAXIMUM WORKING LOAD FROM CONDUCTORS



NOTE

GLASS- FIBRE ARM TO BE COVERED WITH APPROVED COATING TO APPROPRIATE SPECIFICATION WHERE P.T.F.E. COATING IS USED, AC 118 TO APPLY. WHERE SILICON RUBBER COATING IS USED, AC 119 TO APPLY. MANUFACTURER TO STATE COATING TO BE USED WHEN TENDERING. P. T. F. E. OR 2716 SILICON RUBBER PREFERRED. 1701 SILICON RUBBER 2nd CHOICE. FOR CLARIFICATION OF NORMAL WORKING LOADS SEE DRAWING N° 1/111/100 /A2. ALL DIMENSIONS IN MILLIMETRES.

CONTACT WIRE

7	DIMENSION 'B' FOR STYLES 1 & 2 WERE 1942 & 2000 RESPECTIVELY. DIM. 'C' ADDED. (R3165)	14-06-96	F.E.B.
6	STYLE 002 AND ASSEMBLY REFERENCE TABLE ADDED. (R2288)	15-03-94	W.A.
5	REFERENCE TO MANUFACTURERS' NAME REMOVED. (R761)	21-9-82	L.B.A. J.C.M.
4	PREFERRED COATING NOTE ADDED. (R724)	20-7-82	J.C.M.
3	CAT. N° WAS 121/272/1 REDRAWN - ALTERNATIVE COATING ADDED (R710)	16-3-82	J.C.M.
2	SPEC. WAS A.C.117	12-2-79	L.B.A. R.B.

REVISION	DESCRIPTION OF CHANGE	DATE	INITIALS
DRAWN	25-8-77	F.A.M.C.	
CHECKED	13-12-77	D.M.H.	
APPD	4-1-78	B.M.	
R 249			

BRITISH RAILWAYS BOARD
CHIEF MECHANICAL & ELECTRICAL ENGINEER.
H.Q. MARYLEBONE.

TITLE	DRAWING NO
N.T.S. CLAW ENDED GLASS- FIBRE BRIDGE ARM.	1/121/271/A3

QTY	REF. NO.	DESCRIPTION	REF	MATERIAL	SPEC.	FINISH
1	143/804/1	END CASTING	3	M.C.I.	O.E.E.156/001	GALVANISED
1	143/807/1	BRIDGE ARM	2	GLASS FIBRE	O.E.E.156/025	GALVANISED
1	143/807/1	SUPPORT TUBE	1	MILD STEEL	O.E.E.156/025	GALVANISED

816 886/778

HP 16878