

# ENGINEERING STANDARD

## GE-CIC-ES-0067

**GTC Appendix A for ENA ENGINEERING RECOMMENDATION**

**G81-PART 5: MATERIAL SPECIFICATION**

TITLE: <b>Part 5: Material Specification for New Industrial and Commercial Underground Connections</b>			DOCUMENT NO: <b>GE-CIC-ES-0067</b>			
Business Documents Owner			Electricity Networks Director			
Rev	Date		Author	Production	Approval	Authorisation
1	Nov 2014	Issued	SA	SMc	MS	DO
1	May 2018	Document reviewed, no changes required so revision number retained	SA	SMc	MS	DO
1	Apr 2021	Document reviewed, no changes required so revision number retained	JN	HH	SM	SM



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## FOREWORD

This document forms Appendix A to Energy Networks Association (ENA) Engineering Recommendation (ER) G81 - Part 5: Materials Specification, "**Framework for new industrial and commercial underground connections**" and should be read in conjunction with that document.

This document contains a summary of the information contained in GTC product specifications.

Please note that GTC is unable to provide copies of external documentation, standards and specifications referenced in this document, but copies may be obtained from the relevant issuing body (such as the British Standards Institution (BSI) or Energy Networks Association)

Appendix A of this document details assessed products by reference, description and supplier.

## 1. SCOPE

This appendix to ENA ER G81 Part 5 covers the materials specification for new industrial and commercial connections to the electricity distribution network of GTC comprised of licenses Energy Network Company (ENC) and Independent Power Network Company (IPNL).

## 2. GENERAL

- 2.1 This document provides details of GTC's approved range of cables, plant, equipment and auxiliary items used to construct distribution assets for connection to GTC'S distribution network. Only equipment approved by GTC and listed in this document shall be used to construct electricity networks, substations and services for adoption by GTC in its distribution networks.
- 2.2 For all new connections work, the approved installer (ICP) shall provide the Engineer with a full list of equipment to be used. The Engineer will then aim to formally accept or reject the proposal within 10 working days.
- 2.3 Where GTC's requirements are not specified in this document, the approved installer shall liaise with the Engineer, to gain approval from GTC's Electricity Networks Director for its suggested equipment, prior to purchasing the equipment.
- 2.4 This document will be updated on a regular basis when new equipment is approved by GTC's Electricity Networks Director. Further details will also be added as requirements for further information on the range of equipment used is identified.

## Appendix 1

### LOW VOLTAGE EQUIPMENT INCLUDING UNDERGROUND CABLES, JOINTS, LINK BOXES, TERMINATIONS AND FUSES

S.No	Part Number	Description	Material Supplier
1	BMJ185W/GTC	BRANCH JOINT- 185mm <sup>2</sup> (NO RESIN)	UTILITY POWER SERVICES
2	BMJ300W/GTC	BRANCH JOINT - 300mm <sup>2</sup> (NO RESIN)	
3	BMJ95W/EME/C	MAINS BRANCH JOINT 95mm <sup>2</sup>	
4	BMJ95W/GTC	BRANCH JOINT, inc RESIN - 95mm <sup>2</sup> - NO RESIN	
5	EAC1J15WLH	15 WAY MSDB ST LH INCOMING MECH CONNECTOR	
6	EAC1J15WRH	15 WAY MSDB ST RH INCOMING MECH CONNECTOR	
7	EAC1J24WRH	24 WAY MSDB ST RH INCOMING MECH CONNECTOR	
8	EAC1J30WLH	30 WAY MSDB ST LH INCOMING MECH CONNECTOR	
9	EAC1J30WRH	30 WAY MSDB ST RH INCOMING MECH CONNECTOR	
10	EAC1J45WDD	MSDB 1J 45 WAY DBL DOOR C/W 100A HSCO	
11	EAC1J45WLH	45 WAY MSDB ST LH INCOMING MECH CONNECTOR	
12	EAC2J24WRH	MSDB 2J 24 WAY RH	
13	EAC2J30WLH	2 WAY J TYPE 30 WAY MSDB LH INCOMING MECH CONN	
14	EAC374LSF01	374LSF01 2 BOLT LSOH CABLE CLEAT	
15	EACFH3.25	Link Box Fuse Handle	
16	EACL1056FR	10-56FR CABLE CLEAT (PACK 100)	
17	EACL1098FR	10-98FR CABLE CLEAT (PACK 100)	
18	EACL16.5FR	CABLE CLEATS for LSOH CABLE (ORDER BY BAG OF 100)	
19	EACSCCK300WF	300mm <sup>2</sup> WAVEFORM COLD SHRINK SHORTING END CAPS	
20	EACSCCK95185WF	95-185mm <sup>2</sup> WAVEFORM COLD SHRINK SHORTING END CAPS	
21	EACSCCK95TR	95mm <sup>2</sup> TRIPLEX COLD SHRINK SHORTING END CAPS	
22	EJPKPE185300	185 to 300mm <sup>2</sup> POT END KIT	
23	EJPKPE185300GTC	185-300mm POT END KIT	
24	EJPKPE95	95mm <sup>2</sup> POT END KIT	
25	EJPKPE95GTC	95mm <sup>2</sup> POT END KIT	
26	EL100SERKIT1CNH	1 PHASE 100 AMP HOUSE SERVICE KIT CNE	
27	EL100SERKIT1S6	1 PHASE 100amp SNE RISER KIT (C/W RED LINK)	
28	EL100SERKIT1S7	1 PHASE 100amp CNE HOUSE KIT	
29	EL100SERKIT3CNH	3 PHASE 100 AMP HOUSE SERVICE KIT CNE	
30	EL100SERKIT3S6	3 PHASE 100AMP SNE RISER KIT (C/W RED LINK)	
31	EL100SERKIT3S7	3 PHASE CNE 100AMP HOUSE KIT	
32	EL32377	METER BOARD INSULATORS	
33	EL6ANT06SLKIT	DOUBLE POLE STREET LIGHT KIT – ROUTE OF MAIN NPG/ENW	
34	EL6ANT08SLKIT	DOUBLE POLE STREET LIGHT KIT-LOOPING MULTI COLUMN	
35	EL6ASLKIT	STREET LIGHTING CUT OUT KIT	



S.No	Part Number	Description	Material Supplier
36	ELBET120-12	BRASS S/O NEUTRAL LUG 185/300WF 12mm HOLE	UTILITY POWER SERVICES
37	ELBET120-16	BRASS S/O NEUTRAL LUG 185/300WF 16mm HOLE	
38	ELBET60-12	BRASS S/O NEUTRAL LUG 95WF 12mm HOLE	
39	ELBET60-16	BRASS S/O NEUTRAL LUG 95WF 16mm HOLE	
40	ELC35ACPC-100M	35mm CNE Service Cable - 100m drum	
41	ELC35ACCLS-100	1 PHASE 35mm SNE LSOH SERVICE CABLE - 100m DRUM	
42	ELC35ACCLSIDNO	35mm <sup>2</sup> SPILT CONCENTRIC CABLE LSOH - IDNO ONLY	
43	ELC3X185ACWC	3 x 185mm <sup>2</sup> WAVEFORM	
44	ELC3X25ACPC	3X25mm <sup>2</sup> AL/CU PLAIN CONCENTRIC LV CABLE	
45	ELC3X300ACWC	3 x 300mm <sup>2</sup> WAVEFORM	
46	ELC3X35ACPC	3 x 35mm <sup>2</sup> Al/Cu PLAIN CONCENTRIC LV CABLE	
47	ELC3X35ACSC	3 x 35mm <sup>2</sup> AL/CU SPILT CONCENTRIC LV CABLE	
48	ELC3X35ACCLS	CABLE 3 CORE CONCENTRIC SPILT LV 3x35mm <sup>2</sup> LSOH	
49	ELC3X95ACWC	3 x 95mm <sup>2</sup> WAVEFORM	
50	ELC3X95ACWCLS	3X95mm <sup>2</sup> AL/CU (CNE) LSOH WAVEFORM CABLE	
51	ELC4X95ACWCLS	4 x 95mm <sup>2</sup> WAVEFORM LSOH	
52	ELKMSD185/50	JOINT LV MAIN/SERV SINGLE MOD >185mm <sup>2</sup>	
53	ELKMSD2185/50	JOINT LV MAIN/SERV DOUBLE MOD >185 mm <sup>2</sup>	
54	ELKMSD300/50	JOINT LV MAIN/SERV SINGLE MOD >300 mm <sup>2</sup>	
55	ELKNMS185/35	JOINT LV MAIN/SERV DOUBLE MOD >185 mm <sup>2</sup>	
56	ELKNMS300/35	JOINT LV MAIN/SERV DOUBLE MOD >300 mm <sup>2</sup>	
57	ELKSBJ2/EDF	SERVICE BRANCH JOINT 35mm <sup>2</sup> to 4mm <sup>2</sup> SBJ2/EDF	
58	ELKSBJ5/EDF	3 PHASE SERVICE BREECH JOINT	
59	ELKSE1/NY	4-35mm <sup>2</sup> 1PH CNE SERVICE HEAT SHRINK POT END	
60	ELKSMJ95W3/FP	95mm <sup>2</sup> MAINS STRAIGHT JOINT (NO RESIN)	
61	ELTHDCO200	HEAVY DUTY CUT OUT 200AMP	
62	ELTHDCO350	HEAVY DUTY CUT OUT 400AMP CN	
63	ELTLB2W3TYC	2 WAY LINK BOX TYCO MARK 2 UNTAILED	
64	ELTLB2WTEDF	LINK BOX 2 WAY TAILED EDF	
65	ELTLB4WTEDF	LINK BOX 4 WAY TAILED EDF (04494Q)	
66	ELTRSBL10W	LUCY RISING SURFACE BOX 10 W GF	
67	EMDFP1PHEM	METER BOARD FIRE PROOF NEDL/YEDL	
68	EMDFP3PHEM	3 PHASE METER BOARD FIRE PROOF NEDL/YEDL	
69	ER2.0NEDL/YEDL	2 x 2 LITER POUCHES TUB	
70	ER7L2PARTRESIN	2 PART RESIN	
71	MSJ1853PHW/GTC	SERVICE JOINT 95-185mm <sup>2</sup>	
72	MSJ3001PHW/GTC	300mm <sup>2</sup> MAINS SERVICE BRANCH JOINT	
73	MSJ95W/NY/C	MAINS SERVICE JOINT 95mm	
74	NSEJ1PBR35	1PH SERVICE TO SERVICE BRANCH JOINT,INC RESIN (2P)-35 mm <sup>2</sup>	
75	NSEJ1PST35	1PH SERVICE TO SERVICE STRAIGHT JOINT,INC RESIN (2P)-35 mm <sup>2</sup>	



S.No	Part Number	Description	Material Supplier
76	NSEJ3PBR35	BRANCH JOINT, inc RESIN(2p) - 35mm <sup>2</sup>	UTILITY POWER SERVICES
77	NSEJ3PSJ35	SERVICE STRAIGHT JOINT, INC RESIN (2P)-35 mm <sup>2</sup>	
78	NSEJBR185	BRANCH JOINT, inc RESIN(2p) - 185mm <sup>2</sup>	
79	NSEJBR300	BRANCH JOINT, inc RESIN(2p)	
80	NSEJBR95	BRANCH JOINT, inc RESIN(2p) - 95mm <sup>2</sup>	
81	NSEJPK30IDNO	95mm <sup>2</sup> MAINS STRAIGHT JOINT (2P, OLD SHELL)	
82	NSEJPK51SPJ	300mm <sup>2</sup> 3-CORE WAVEFORM BRANCH JOINT	
83	NSEJPKSBJ5IDNO2	3x35mm <sup>2</sup> MAINS BRANCH JOINT (WITH 2 ADDITIONALI CONNECTORS)	
84	NSEJPKSE1SPJ	4-35mm <sup>2</sup> SINGLE PHASE CNE SERVICE POT END	
85	NSEJSE95185	STOP END KIT, INC RESIN (2P) - 95/185mm <sup>2</sup>	
86	NSEJSER300	SERVICE JOINT, INC RESIN (2P) - 300mm <sup>2</sup>	
87	NSEJSER95185	SERVICE JOINT, INC RESIN (2P) - 95/185mm <sup>2</sup>	
88	NSEJST185	STRAIGHT JOINT, INC RESIN (2P) - 185mm <sup>2</sup>	
89	NSEJST300	STRAIGHT JOINT, INC RESIN (2P) - 300mm <sup>2</sup>	
90	NSEJST95	STRAIGHT JOINT, INC RESIN (2P) - 95mm <sup>2</sup>	
91	NSEJSTSER185	STRAIGHT JOINT, C/W SERVICE CONNECTOR INC RESIN (2P) - 185mm <sup>2</sup>	
92	SBJ1PHW/GTC	4-35mm <sup>2</sup> SINGLE PHASE CNE-SINGLE PHASE CNE SERVICE	
93	SBJ2PHW/GTC	4-35mm <sup>2</sup> THREE PHASE CNE-THREE PHASE CNE SERVICE	
94	SE1/GTC	4-35mm <sup>2</sup> SINGLE PHASE CNE SERVICE STOP END JOINT	
95	SE11/EME/C	185mm <sup>2</sup> to 300mm <sup>2</sup> WAVEFORM STOP END KIT	
96	SE3/EDF/C	3 CORE 35mm <sup>2</sup> WAVEFORM POT END	
97	SKEC3	95MM <sup>2</sup> /185Mmm <sup>2</sup> COLD SHRINK END CAPS	
98	SMJ300W/EME/C	MAINS STRAIGHT JOINT 300mm <sup>2</sup>	
99	SMJ300W/GTC	STRAIGHT JOINT - 300mm <sup>2</sup> (NO RESIN)	
100	SMJ95W/GTC	STRAIGHT JOINT, NO RESIN - 95mm <sup>2</sup>	
101	SSJ1PHW/GTC	4-35mm <sup>2</sup> SINGLE PHASE CNE-SINGLE PHASE CNE SERVICE	
102	EF100MJ30-7	FEEDER PILLAR FUSE 100 AMPS 82mm FIXINGS	
103	EF100MJ31-7	J [Type] 100A FUSE 92MM CENTRES	
104	EF160MJ30-7	FEEDER PILLAR FUSE 160 AMPS 82mm FIXINGS	
105	EF160MJ31-7	FEEDER PILLAR FUSE 160 AMPS 92mm FIXINGS	
106	EF200MJ30-7	FEEDER PILLAR FUSE 200 AMPS 82mm FIXINGS	
107	EF200MJ31-7	FEEDER PILLAR FUSE 200 AMPS 92mm FIXINGS	
108	EF250MJ30-7	FEEDER PILLAR FUSE 250 AMPS 82mm FIXINGS	
109	EF250MJ31-7	FEEDER PILLAR FUSE 250 AMPS 92mm FIXINGS	
110	EF25AHOUSE22	HOUSE SERVICE FUSE 25 AMP SMALL DIAMETER	
111	EF315MJ30-7	FEEDER PILLAR FUSE 315 AMPS 82mm FIXINGS	
112	EF315MJ31-7	FEEDER PILLAR FUSE 315 AMPS 92mm FIXINGS	
113	EF355PJ31-7	FEEDER PILLAR FUSE 355 AMPS 92mm FIXINGS	



S.No	Part Number	Description	Material Supplier	
114	EF400AJP	FEEDER PILLAR FUSE 400 AMPS 82mm FIXINGS	UTILITY POWER SERVICES	
115	EF400PJ31-7	FEEDER PILLAR FUSE 400 AMPS 92mm FIXINGS		
116	EF500SL92	92mm SOLID LINKS (set of 3)		
117	EF60AHOUSE	60A HOUSE SERVICE FUSE BS1361 - 60LR85		
118	ES500RJ31-7	J(Type) 500A FUSESs 92mm CENTRES		
119	ELC120CEWCOV	120mm <sup>2</sup> GREEN/YELLOW EARTH CABLE		
120	ELC120CWBAR	120mm <sup>2</sup> BARE COPPER EARTH WIRE		
121	ELC25ACPC	25mm <sup>2</sup> AL/CU PLAIN CONCENTRIC LV CABLE		
122	ELC35ACPC	250m CABLE PLAIN CONCENTRIC LV 35mm <sup>2</sup>		
123	ELC70CEWBAR	70mm <sup>2</sup> BARE COPPER EARTH WIRE SOFT DRAWN		
124	ELC70CEWCOV	70mm <sup>2</sup> GREEN/YELLOW EARTH CABLE		
125	SE10/EME/C	70mm <sup>2</sup> to 120mm <sup>2</sup> WAVEFORM STOP END KIT		
126	ELNE15	NEUTRAL EARTH CONNECTOR BRASS		
127	ELTEARTH5	EARHT TERMINAL BLOCK 5 Way		
128	ELCTGTC	CT Chamber M/S 540x520x230		
129	ELMETERBOXKEY	METER BOX KEY		
130	ELTCTHDCO200	LUCY CT CHAMBER C/W INTEGRATED 200A HDCCO		
131	ELTCTHDCO350	LUCY CT CHAMBER C/W INTEGRATED 400A HDCCO		
132	METERMB	METER BOX ELECTRIC - M00022		
133	metermbdoor	METER BOX DOOR		
134	METERMBSLIM	SLIMLINE METER BOX ELECTRIC		
135	METESMBNS	ELECTRIC SURFACE M-BOX M06004		
136	METMB036	METER BOX HOCKEY STICK		
137	METMB037	ELECTRIC HOCKEY STICKS - BLACK		
138	ERB112	16mm <sup>2</sup> X1200mm <sup>2</sup> CU BOND EARTH ROD		JOINTING TECHNOLOGY
139	ERBD16	16mm <sup>2</sup> DRIVING STUD		
140	ERB016	16mm <sup>2</sup> EARTH ROD COUPLING		
141	ERB212	19mm <sup>2</sup> X1200mm <sup>2</sup> CU BOND EARTH ROD		
142	ERB020	19mm <sup>2</sup> EARTH ROD COUPLING		
143	ERBD19S	19mm <sup>2</sup> ( <b>BESPOKE</b> ) DRIVING STUD		
144	ERUB19JT	19mm <sup>2</sup> UBOLT M10 LUG CLAMP (70-185spmm)??		
145	ERR2095	ROD TO CABLE CLAMP TYPE G 19MM ROD 6-70MM		
146	ERA1625	ROD TO TAPE CLAMP 16MM ROD MAX 26X12MM TAPE		
147	ERU570	ROD TO CABLE CLAMP TYPE GUV 16mm <sup>2</sup> ROD 150-300mm <sup>2</sup>		
148	ERU470	ROD TO CABLE CLAMP TYPE GUV 16mm <sup>2</sup> ROD 16-150mm <sup>2</sup>		
149	ERR1670	ROD TO CABLE CLAMP TYPE G 16mm <sup>2</sup> ROD 6-70mm <sup>2</sup>		
150	EPP002W	LIGHTWEIGHT INSPECTION PIT		
151	ERH02W	CONCRETE INSPECTION PIT		
152	JG253	SQUARE TAPE CLAMP 4 WAY/CROSS		
153	NM253B	DC CLIP PLASTIC 25mm <sup>2</sup> X3mm <sup>2</sup> TAPE		



S.No	Part Number	Description	Material Supplier	
154	DCB253	COPPER DC CLIP 25mm <sup>2</sup> X3mm <sup>2</sup> TAPE		
155	EBC100	SINGLE WAY EARTH BAR, DISCONNECTING LINK		
156	EBC006	6 WAY EARTH BAR		
157	EBC106	6 WAY EARTH BAR WITH SINGLE DISCONNECTING LINK		
158	EBC008	8 WAY EARTH BAR		
159	BBO200	BRAID BONDS (200MM HOLE CENTRE)		
160	BBO400	BRAID BONDS (400MM HOLE CENTRE)		
161	EBI002	INSULATOR M10 C/W STUDS AND NUTS		
162	EBG25P	BENTONITE 25KG SACK		
163	DT510	DENSO TAPE 50MMX10M		
164	CL406	SELF LOCKING CLEAT 40MMX6MM TAPE		
165	CL404	SELF LOCKING CLEAT 40MMX4MM TAPE		JOINTING TECHNOLOGY
166	TA406	40MMX6MM ALUMINIUM TAPE (50M COIL) PER METRE		
167	BCT256	25x6MM BARE COPPER TAPE (40M)		
168	BCT404	40X4MM BARE COPPER TAPE (30M)		
169	16BSTR	16MM BARE STRANDED COPPER CABLE (50M)		
170	70BSTR	70MM BARE STRANDED COPPER CABLE (50M)		
171	70GYSTR	70MM G/Y STRANDED COPPER CABLE (50M)		
172	120BSTR	120MM BARE STRANDED COPPER CABLE (50M)		
173	120GYSTR	120MM G/Y STRANDED COPPER CABLE (50M)		
174	TC254	25x4MM BARE COPPER TAPE (50M)		
175	EA-16CU6491X-GY	16MM G/Y STRANDED COPPER CABLE (50M)	PRYSMIAN	
176	VDA3J95BCOBRE	95mm <sup>2</sup> 3 CORE LSOH ORANGE CABLE		
177	VKBD1J95JTOBRE	1 x 95SAC XLPEB 11KV WST 35H EQ ORGE LSOH		
178	VKBD1L18JTOBRE	1 x 185SAC XLPEB 11KV WST 35H EQ ORGE LSOH		
179	VKBD1L30JTOBRE	1 x 300SAC XLPEB 11KV WST 35H EQ ORGE LSOH	CABLE SERVICE	
180	TNLK-MMS-95	95mm <sup>2</sup> WAVEFORM MAINS STRAIGHT JOINT (5.4ltr)		
181	TNLK-MMS-185	185 mm <sup>2</sup> WAVEFORM MAINS STRAIGHT JOINT (8.6ltr)		
182	TNLK-MMS-300	300 mm <sup>2</sup> WAVEFORM MAINS STRAIGHT JOINT (10.6ltr)		
183	TNLK-MMB-95	95 mm <sup>2</sup> WAVEFORM MAINS BRANCH JOINT (6.7ltr)		
184	TNLK-MMB-185	185 mm <sup>2</sup> WAVEFORM MAINS BRANCH JOINT (14.4ltr)		
185	TNLK-MMB-300	300 mm <sup>2</sup> WAVEFORM MAINS BRANCH JOINT (19.5ltr)		
186	MSB185/2S	95-185mm <sup>2</sup> MAINS/SERVICE BRANCH SINGLE PHASE (8ltr)		
187	MSB300/2S	185-300mm <sup>2</sup> MAINS/SERVICEBRANCH SINGLE PHASE (10ltr)		
188	GTC-MSB185/4S	95-185mm <sup>2</sup> MAINS/SERVICE BRANCH THREE PHASE (8ltr)		
189	GTC-MSB300/4S	185-300mm <sup>2</sup> MAINS/SERVICE BRANCH THREE PHASE (10ltr)		





S.No	Part Number	Description	Material Supplier
190	GTC-MSE-3W95R	95 mm <sup>2</sup> WAVEFORM MAINS POT END - RESIN FILLED (4ltr)	<b>CABLE SERVICE</b>
191	GTC-MSE-3W300R	185-300 mm <sup>2</sup> WAVEFORM MAINS POT END - RESIN FILLED	
192	GTC-MSE-3W95HS	95 mm <sup>2</sup> WAVEFORM MAINS POT END - HEATSHRINK	
193	GTC-MSE-3W300HS	185-300 mm <sup>2</sup> WAVEFORM MAINS POT END - HEATSHRINK	
194	GTC-SSJ-1P	4-35 mm <sup>2</sup> CNE STRAIGHT JOINT SINGLE PHASE	
195	GTC-SBJ-1P	4-35 mm <sup>2</sup> CNE BRANCH JOINT SINGLE PHASE	
196	GTC-SSJ-3P	4-35 mm <sup>2</sup> CNE STRAIGHT JOINT THREE PHASE	
197	GTC-SBJ-3P	4-35 mm <sup>2</sup> CNE BRANCH JOINT THREE PHASE	
198	GTC-SE-1P	4-35 mm <sup>2</sup> CNE HEATSHRINK SINGLE PHASE STOP END	
199	GTC-SE-3P	4-35 mm <sup>2</sup> CNE HEATSHRINK THREE PHASE STOP END	
200	TNLK-MMS-95-FR	95 mm <sup>2</sup> WAVEFORM MAINS STRAIGHT JOINT	
201	TNLK-MMS-185-FR	185 mm <sup>2</sup> WAVEFORM MAINS STRAIGHT JOINT	
202	15-2J-LH-DD-3C-BN	LUCY MSDB 15 WAY 2J LEFT HAND DOUBLE DOOR 3 CORE BOTTOM NEUTRAL	
203	BAH038110101	TYCO/CE (56168) 4 WAY CNE LV UNDERGROUND LINK BOX	

**Appendix 2**

**HIGH VOLTAGE EQUIPMENT INCLUDING UNDERGROUND CABLES, JOINTS & TERMINATIONS**

S.No	Part Number	Description	Material Supplier
204	VKBD1L30ZFOCR	1 x 300SAC (B) WB EQ CWS (35 SZ WB) MDPE RED 11KV	PRYSMIAN
205	VKBDMD30ZEECRD	3X1X300 CU XLPE CU/W (70) MDPE 11KV	
206	VKBDMX95ZCECRD	3X1X95 AI XLPE CU/W (35) MDPE 11KV	
207	VKBDMY18ZEECRD	3X1X185 AI XLPE CU/W (70) MDPE 11KV	
208	VKBDMY30ZEECRD	3X1X300 AI XLPE CU/W (70) MDPE 11KV	
209	VKBDTD30ZCOCR	3X1X300 CU XLPE CU/W (25) MDPE 11KV	
210	VKBDTJ70ZBOCRD	3X1X70 SAC XLPE CU/W (25) MDPE 11KV	
211	VKBDTJ95ZCOCR	3X1X95 SAC XLPE CU/W (25) MDPE 11KV	
212	VKBD1J95ZFOCR	1 x 95SAC (B) WB EQ CWS (35 SZ WB) MDPE RED 11KV	
213	VKBD1L18ZFOCR	1 x 185SAC (B) WB EQ CWS (35 SZ WB) MDPE RED 11KV	
214	VKBDTJ95ZFOCR	3X1X95SAC XLPE WST EW CU/W (35) WST MDPE 11KV	
215	VKBDTJ95ZQOCR	3X1X95SAC XLPE WST CU/W (35) WST MDPE 11KV	
216	VKBDTL18ZCOCR	3X1X185 SAC XLPE CU/W (25) MDPE 11KV	
217	VKBDTL18ZFOCR	3X1X185SAC XLPE WST EW CU/W (35) WST MDPE 11KV	
218	VKBDTL18ZQOCR	3X1X185SAC XLPE WST CU/W (35) WST MDPE 11KV	
219	VKBDTL30ZCOCR	3X1X300 SAC XLPE CU/W (25) MDPE 11KV	
220	VKBDTL30ZFOCR	3X1X300SAC XLPE WST EW CU/W (35) WST MDPE 11KV	
221	VKBDTL30ZQOCR	3X1X300SAC XLPE WST CU/W (35) WST MDPE 11KV	
222	VKCD3K95JDOCRD	3 x 95SAC XLPE CU/W (70) + EQ RED MDPE 11KV	
223	VKCD3L18JPOCRD	3 x 185SAC XLPE CU/W (95) + EQ RED MDPE 11KV	
224	VKCD3L30JPOCRD	3 x 300SAC XLPE CU/W (95) + EQ RED MDPE 11KV	
225	VKEDTJ95ZCWCRD	3X1X95 SAC EPR CU/W (35) MDPE 11KV	
226	VKEDTL18ZCWCRD	3X1X185 SAC EPR CU/W (35) MDPE 11KV	
227	VKEDTL30ZCWCRD	3X1X300 SAC EPR CU/W (35) MDPE 11KV	
228	IXSU-F3121-GB03	70-95MM <sup>2</sup> AL TRIPLEX TERMINATION KIT	CABLE SERVICE
229	IXSU-F3131-GB08	185-300MM <sup>2</sup> AL TRIPLEX TERMINATION KIT	
230	IXSU-F3141-GB03	300MM <sup>2</sup> CU TRIPLEX TERMINATION KIT	
231	EAKT1606	SIZE Y 3 CORE GLAND (TOP HAT) UPTO 300MM	
232	402W248/S	MV 3 CORE BREAKOUT 95-300MM	
233	MSXU-3111-GB01	70MM <sup>2</sup> AL H/S TRIPLEX STRAIGHT JOINT ONE PER PHASE	
234	MXSU-3131-GB02	95-300MM <sup>2</sup> AL H/S TRIPLEX STRAIGHT JOINT ONE PER PHASE	
235	MXSU-3141-GB01	300MM <sup>2</sup> CU TRIPLEX STRAIGHT JOINT ONE PER PHASE	

<b>S.No</b>	<b>Part Number</b>	<b>Description</b>	<b>Material Supplier</b>
236	EPKB12B1XU2XU-GB01	70-185MM <sup>2</sup> H/S TRIPLEX BRANCH JOINT ONE PER PHASE	<b>CABLE SERVICE</b>
237	EPKB12C1XU2XU-GB04	185-30MM <sup>2</sup> H/S TRIPLEX BRANCH JOINT ONE PER PHASE	
238	EPKB12C1XU2XU-GB05	300MM <sup>2</sup> MAIN 95MM BRANCH H/S TRIPLEX BRANCH JOINT ONE PER PHASE	



**Appendix 3**

**DISTRIBUTION SUBSTATIONS - PLANT, EQUIPMENT & HOUSING**

S.No	Part Number	Description	Material Supplier
239	GTC/POWER ON	TRANSFORMER 315KVA ONAN /OIL FILLED	SCHNEIDER
240	GTC/POWER ON	TRANSFORMER 500KVA ONAN /OIL FILLED	
241	GTC/POWER ON	TRANSFORMER 800KVA ONAN /OIL FILLED	
242	GTC/POWER ON	TRANSFORMER 1000KVA ONAN /OIL FILLED	
243	GTC/POWER ON	TRANSFORMER M315KVA MIDEL	
244	GTC/POWER ON	TRANSFORMER M500KVA MIDEL	
245	GTC/POWER ON	TRANSFORMER M800KVA MIDEL	
246	GTC/POWER ON	TRANSFORMER M1000KVA MIDEL	
247	GTC/POWER ON	STANDARD RN2C-T1/21 (TLF PROTECTION)	
248	GTC/POWER ON	STANDARD RN2C-T2/21 (VIP300 PROTECTION)	
249	GTC/POWER ON	STANDARD CN2-T6 (TLF PROTECTION)	
250	GTC/POWER ON	STANDARD CN2-T1 (VIP300 PROTECTION)	
251	GTC/POWER ON	SN6-S1 (SWITCH DISCONNECTOR)	
252	GTC/POWER ON	GTC RN2C T1/21 TM (TLF PROTECTION)	
253	GTC/POWER ON	GTC RN2C T2/21 (VIP PROTECTION)	
254	GTC/POWER ON	GTC - 1600A 4WAY	
255	GTC/POWER ON	GTC - 1600A 5WAY	
256	GTC/POWER ON	GTC - 1600A 6WAY	
257	GTC/POWER ON	GTC - 1600A 7WAY	
258	GTC/POWER ON	GTC - 800A 800A ACB + 1W	
259	GTC/POWER ON	GTC - 1600A 1250A ACB + 1W	
260	GTC/POWER ON	GTC - 1600A 1600A ACB + 1W	
261	GTC/POWER ON	800A ACB CABINET WITH 3-POLE NW08 H1 MICROLOGIC 5.0	
262	GTC/POWER ON	1200A ACB CABINET WITH 3-POLE NW12 H1 MICRO LOGIC 5.0	
263	GTC/POWER ON	1600A ACB CABINET WITH 3-POLE NW16 H1 MICRO LOGIC 5.0	
264	GTC/POWER ON	2000A ACB CABINET WITH 3-POLE NW20 H1 MICRO LOGIC 5.0	
265	GTC/POWER ON	2500A ACB CABINET WITH 3-POLE NW25 H1 MICRO LOGIC 5.0	
266	GTC/POWER ON	3200A ACB CABINET WITH 3-POLE NW32 H1 MICRO LOGIC 5.0	
267	GTC/POWER ON	800A ACB CAB WITH 3-POLE NW08 H1 MICRO LOGIC 6.0 (EARTH FAULT PROTECTION)	
268	GTC/POWER ON	1200A ACB CAB WITH 3-POLE NW12 H1 MICRO LOGIC 6.0 (EARTH FAULT PROTECTION)	
269	GTC/POWER ON	1600A ACB CAB WITH 3-POLE NW16 H1 MICRO LOGIC 6.0 (EARTH FAULT PROTECTION)	
270	GTC/POWER ON	2000A ACB CAB WITH 3-POLE NW20 H1 MICRO LOGIC 6.0 (EARTH FAULT PROTECTION)	



S.No	Part Number	Description	Material Supplier
271	GTC/POWER ON	2500A ACB CAB WITH 3-POLE NW25 H1 MICRO LOGIC 6.0 (EARTH FAULT PROTECTION)	<b>SCHNEIDER</b>
272	GTC/POWER ON	3200A ACB CAB WITH 3-POLE NW32 H1 MICRO LOGIC 6.0 (EARTH FAULT PROTECTION)	
273	GTC/POWER ON	800A INC DISCONNECTOR & 4X630A SHIELDED OUTGOING FUSEWAYS, EATS 37-2 ISSUE 4	
274	GTC/POWER ON	1600A INC DISCONNECTOR & 4X630A SHIELDED OUTGOING FUSEWAYS, EATS 37-2 ISSUE 4	
275	GTC/POWER ON	800A INC DISCONNECTOR & 4X630A SAIF OUTGOING FUSEWAYS, EATS 37-2 ISSUE 4	
276	GTC/POWER ON	1600A INC DISCONNECTOR AND 4X630A SAIF OUTGOING FUSEWAYS, EATS 37-2 ISSUE 4	
277	GTC/POWER ON	SHIELDED CAB WITH 1001T I/C DISCONNECTOR, 1XNS800N MICRO LOGIC 2.0 MCCB & 2X630A SHIELDED	
278	GTC/POWER ON	SHIELDED CAB WITH 2001T I/C DISCONNECTOR, 1XNS1250N MICRO LOGIC 2.0 MCCB & 2X630A SHIELDED	
279	GTC/POWER ON	SAIF CAB WITH 1001T I/C DISCONNECTOR, 1XNS800N MICRO LOGIC 2.0 MCCB & 1X630A SAIF	
280	GTC/POWER ON	SAIF CAB WITH 2001T I/C DISCONNECTOR, 1XNS1250N MICRO LOGIC 2.0 MCCB AND 1X630A SAIF	
281	GTC/POWER ON	NS400N 3-P MCCB CABINET (UP TO 315KVA)	
282	GTC/POWER ON	NS400N 4-P MCCB CABINET (UP TO 315KVA)	
283	GTC/POWER ON	NS630N 3-P MCCB CABINET (315 - 500KVA)	
284	GTC/POWER ON	NS630N 4-P MCCB CABINET (315 - 500KVA)	
285	GTC/POWER ON	NS800N 3-P MCCB CABINET (315 - 500KVA)	
286	GTC/POWER ON	NS800N 4-P MCCB CABINET (315 - 500KVA)	
287	GTC/POWER ON	NS1250N 3-P MCCB CABINET (500 - 800KVA)	
288	GTC/POWER ON	NS1250N 4-P MCCB CABINET (500 - 800KVA)	
289	GTC/POWER ON	NS1600N 3-P MCCB CABINET (500 - 1000KVA)	
290	GTC/POWER ON	NS1600N 4-P MCCB CABINET (500 - 1000KVA)	
291	GTC/POWER ON	NW08 H1 3-P ACB CABINET (315 - 500KVA)	
292	GTC/POWER ON	NW08 H1 4-P ACB CABINET (315 - 500KVA)	
293	GTC/POWER ON	NW12 H1 3-P ACB CABINET (500 - 800KVA)	
294	GTC/POWER ON	NW12 H1 4-P ACB CABINET (500 - 800KVA)	
295	GTC/POWER ON	NW16 H1 3-P ACB CABINET (800 - 1000KVA)	
296	GTC/POWER ON	NW16 H1 4-P ACB CABINET (800 - 1000KVA)	
297	GTC/POWER ON	NW20 H1 3-P ACB CABINET (800 - 1250KVA)	
298	GTC/POWER ON	NW20 H1 4-P ACB CABINET (800 - 1250KVA)	
299	GTC/POWER ON	NW25 H1 3-P ACB CABINET (800 - 1600KVA)	
300	GTC/POWER ON	NW25 H1 4-P ACB CABINET (800 - 1600KVA)	
301	GTC/POWER ON	NW32 H1 3-P ACB CABINET (10000 - 2000KVA)	
302	GTC/POWER ON	NW32 H1 4-P ACB CABINET (10000 - 2000KVA)	

<b>S.No</b>	<b>Part Number</b>	<b>Description</b>	<b>Material Supplier</b>
303	GTC/POWER ON	GRP HOUSING WITH LOCKING SHROUD GTC SPEC	<b>Envico Engineering</b>
304	GTC/POWER ON	GRP HOUSING WITH LOCKING SHROUD SCOTISH POWER SPEC	<b>Morgan Marine</b>
305	GTC/POWER ON	GRP HOUSING WITH LOCKING SHROUD SSE SPEC	<b>Morgan Marine</b>
306	GTC/POWER ON	SUBSTATION FLOODGATE	<b>JT Atkinson</b>
307	GTC/POWER ON	ROXTEC DUCT SEALS	<b>Roxtec</b>