

Company Directive

STANDARD TECHNIQUE: CA2S/5

Relating to E5 Numbers for 11kV Cable Jointing Materials

Policy Summary

This ST document contains the jointing materials and their relevant E5 item numbers required for 11kV Jointing.

Only materials stated in this ST are approved for use on NGED's 11kV Underground Cable System unless the Policy Manager, Avonbank, has granted prior permission.

This ST has not been written as a training document. It is not intended to be exhaustive in content and you must refer to your supervisor if you require training or instruction.

You shall work safely and skilfully, utilising the training/instruction you have already received, relating to the contents of this document and its cross-references.

You must make sure that you understand your job instructions and that you have the necessary tools and equipment for the job.

Author: Marco Williams

Implementation Date: January 2025

Approved by



Andrew Reynolds
Engineering Policy Manager

Date: 9th January 2025

Target Staff Group	Network Services Staff
Impact of Change	Green – Editorial update, non-safety critical
Planned Assurance checks	Checks to be carried out by Team Managers

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IMPLEMENTATION PLAN

Introduction

This updated Standard Technique defines all the standard 11kV items and their respective E5 numbers which are available for use on the 11kV underground cable used within.

Main Changes

Document updated to reflect changes to 11kV jointing procedures, new kits and E5 codes.

Impact of Changes

E5 code changes.

Implementation Actions

None, this document only collates information for reference.

Implementation Timetable

This Standard Technique will be required as soon as existing stocks are used.

REVISION HISTORY

Document Revision & Review Table		
Date	Comments	Author
January 2025	- Document re-written - New format to the way information is presented, tables have been introduced. - E5 code changes	Marco Williams
July 2021	Amended to reflect new cable modules in Lovink joints.	Richard Summers
May 2016	- Document has been modified to take into account the NGED losses strategy and the harmonization of the 11kV cables within the company. - Minor changes in the E 5 lists to remove errors.	Peter White
April 2013	- The changes that have been made to this document are the inclusion of all the 11kV cables and the associated general requirements which have over the years been used in the Midlands Areas and not used in the South Wales and South Western areas, thus providing a unified common document applicable to the whole company. - Rectification of known typographic errors.	Peter White

ST: CA2S E5 NUMBERS FOR 11kV CABLE JOINTING MATERIALS

This ST document contains the jointing materials and their E5 item numbers required for 11kV Jointing.

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As from 1st March 2015 NGED have changed the specification of Approved cable sizes. These changes will affect all new installations and are aimed at reducing cable losses in accordance with the NGED Losses Strategy. This means that the 95mm² triplex and single core cables are now removed from general use, they can only be used for padmounts and the repair of faults in existing 95mm² circuits.

When selecting materials appropriate to the required joint/termination, it will be necessary to reference the material list found in the relevant Jointing Procedure.

Any reference to PICAS equally applies to screened or belted PICAS as well as PISAS. Any reference to EPR/XLPE triplex equally applies to XLPE triplex.

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4.1 CABLES	
Description	E5 Code
95mm ² Al. XLPE Triplex	41337
185mm ² Al. XLPE Triplex	41338
300mm ² Al. XLPE Triplex	41339
300mm ² Cu. XLPE Triplex	41340
400mm ² Cu. XLPE Triplex	60608
630mm ² Cu. XLPE Single Core	40043

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4.2 JOINT KITS					
SUPPLIER	SUPPLIER PART NO	TYPE	DESCRIPTION	E5 CODE	AREA USED
LOVINK	008412	Straight	M85 95-185 Base joint kit for transition / 3c cables	63611	All
LOVINK	008417	Straight	M85 95-185 Extended Base joint kit for transition / 3c cables	63672	West Midlands
LOVINK	008413	Straight	M105 300 Base joint kit for transition / 3c cables	63612	All
LOVINK	008418	Straight	M105 300 Extended Base joint kit for transition / 3c cables	63673	West Midlands
LOVINK	008414	Straight	M105 Transitional 300-400 cu Base joint kit for transition / 3c cables	63613	All
LOVINK	008415	Branch	KB85 95-185 Base joint kit for transition / 3c cables	63614	All
LOVINK	008416	Branch	KB95 300 Base joint kit for transition / 3c cables	63615	All
LOVINK	008056	Branch	KB95 300 Extended Base joint kit for transition / 3c cables	63675	West Midlands
SICAME	93-BP221-1-NGED	Branch	Branch joint 185-300mm cu	63610	All
SICAME	52406-15	Branch	70/95mm Build up kit only	63759	All
REPL	RCSJU 12X 95-300-1/H/(SMC)	Straight	70mm Build up kit only	63696	Midlands
REPL	RCSJU 12X 95-300-1/H/(SMC)	Straight	Straight Joint 95-300mm Al	63595	Midlands
REPL	RCSJU 12X 300-400-1/H/(SMC)	Straight	Straight Joint 300-400mm Al/cu	63596	Midlands
REPL	RCSJU 12X 630-1/H/(SMC)	Straight	Straight Joint 300-630mm cu	63597	Midlands

4.2 JOINT KITS					
SUPPLIER	SUPPLIER PART NO	TYPE	DESCRIPTION	E5 CODE	AREA USED
REPL	RCSJU 12X 800-1/H/(SMC)	Straight	Straight Joint 630-800mm cu	63598	Midlands
REPL	RCSPU 12X 95-300-1/H	Stop End	Stop End Joint 95-300mm al	63599	Midlands
REPL	RCSPU 12X 300-400-1/H	Stop End	Stop End Joint 300-400mm cu	63600	Midlands
REPL	RCSPU 12P 500-630-1/H	Stop End	Stop End Joint 500-630mm PILC	63748	Midlands
REPL	RCSPU 12X 630-1/H	Stop End	Poly Stop End Joint 500-630mm XLPE	63747	Midlands
REPL	RCSJU 12PX 300-400-1/H/(SMC)	Straight	Transition Straight Joint 300-400mm cu	63601	Midlands
REPL	RCSJU 12PX 630-1/H/(SMC)	Straight	Transition Straight Joint 300-630mm cu	63602	Midlands
TYCO	TBC	Straight	70mm Build up kit only	63693	SW & Wales
TYCO	CSJH-12B1/1XU-1XU-GB0x	Straight	Straight Joint 95-300mm Al	63595	SW & Wales
TYCO	CSJH-12D/1XU-1XU-GB0x	Straight	Straight Joint 300-400mm cu	63596	SW & Wales
TYCO	TBC	Straight	400-630mm Build up kit only	63694	SW & Wales
TYCO	CSJH-12E/1XU-1XU-GB0x	Straight	Straight Joint 630-630mm cu	63597	SW & Wales
TYCO	TBC	Straight	630-800mm Build up kit only	63695	SW & Wales
TYCO	CSJH-12F/1XU-1XU-GB0x	Straight	Straight Joint 800-800mm cu	63598	SW & Wales
TYCO	CSEH-12B1/1XU-GB0x	Stop End	Stop End Joint 95-300mm al - with solid connector	63599	SW & Wales
TYCO	CSEH-12D/1XU-GB0x	Stop End	Stop End Joint 300-400mm cu -with solid connector	63600	SW & Wales
TYCO	TBC	Stop End	Stop End Joint 500-630mm PILC	TBC	SW & Wales
TYCO	TBC	Stop End	Stop End Joint 630mm XLPE	TBC	SW & Wales
TYCO	CSJH-12E/1XU-1HL-GB0x	Straight	Transition Straight Joint 300-400mm cu	63601	SW & Wales
TYCO	CSJH-12F/1XU-1HL-GB0x	Straight	Transition Straight Joint 630-630mm cu	63602	SW & Wales
TYCO	BAH038081516	Trefoil bond	95, 185, 300 and 400mm ² EPR/XLPE Triplex Trefoil bond joint	60492	All
TYCO	BAH038081517	Trefoil bond	95, 185 and 300mm ² PILC earth bond joint	60493	All

4.3 CABLE MODULES for Lovink Joints & STRESS CONE MODULES

TO FIT BASE JOINT KIT TYPE	DESCRIPTION	E5 CODE
M85	CM M85 11 3c 16-70 PILC Belted	41009
M85	CM M85 11 3c 95-185 PICAS/PILC Belted	40375
M85	CM M85 11 3c 120-185 PICAS/PILC Belted	40376
M85	CM M85 11 3c 35-70 PILC Screened	63221
M85	CM M85 11 3c 95 PICAS/PILC Screened	43473
M85	CM M85 11 3c 120-185 PICAS/PILC Screened	43474
M85	CM M85 11 3c 95-185 XLPE SWA	43479
M85	CM M85 11 Triplex 70 XLPE CWS	63231
M85	CM M85 11 95-185 XLPE CWS	40374
M85	CM M85 STOPEND	40380
M105	CM M105 11 3c 95 PILC/PICAS Belted	63219
M105	CM M105 11 3c 120-185 PILC/PICAS Belted/Screened	63202
M105	CABLE MODULE M105 11 3c 300-400 PICAS/PILC Belted	43475
M105	CABLE MODULE M105 11 3c 35-70 PILC Screened	63216
M105	CABLE MODULE M105 11 3c 95-185 PICAS/PILC Screened	63218
M105	CABLE MODULE M105 11 3c 300-400 PICAS/PILC Screened	40379
M105	CABLE MODULE M105 11 3c 95-185 XLPE SWA	63214
M105	CABLE MODULE M105 11 3c 300-400 XLPE SWA	43480
M105	CABLE MODULE M105 11 Triplex 70 XLPE CWS	63232
M105	CABLE MODULE M105 11 95-185 XLPE CWS	63212
M105	CABLE MODULE M105 11 300-400 XLPE CWS	40378
M105	CM M105 STOPEND	40381
KB85	CABLE MODULE KB85 11 3c 16-70 PILC Belted	63201
KB85	CABLE MODULE KB85 11 3c 95-185 PILC/PICAS Belted	63196
KB85	CABLE MODULE KB85 11 3c 35-70 PILC Screened	63234
KB85	CABLE MODULE KB85 11 3c 95 PICAS/PILC Screened	63203
KB85	CABLE MODULE KB85 11 3c 120-185 PICAS/PILC Screened	63204
KB85	CABLE MODULE KB85 11 3c 95-185 XLPE SWA	63208
KB85	CABLE MODULE KB85 11 Triplex 70 XLPE CWS	63233
KB85	CABLE MODULE KB85 11 95-185 XLPE CWS	63195
KB85	CABLE MODULE KB85 STOP END	63199
KB95	CABLE MODULE KB95 11 3c 300 PICAS/PILC Belted	63198

4.3 CABLE MODULES for Lovink Joints & STRESS CONE MODULES		
TO FIT BASE JOINT KIT TYPE	DESCRIPTION	E5 CODE
KB95	CABLE MODULE KB95 11 3c 35-70 PILC Screened	63215
KB95	CABLE MODULE KB95 11 3c 95-185 PILC/PICAS Screened	63217
KB95	CABLE MODULE KB95 11 3c 300 PICAS/PILC Screened	63205
KB95	CABLE MODULE KB95 11 3c 95-185 XLPE SWA	63213
KB95	CABLE MODULE KB95 11 3c 300 XLPE SWA	63209
KB95	CABLE MODULE KB95 11 95-185 XLPE CWS	63211
KB95	CABLE MODULE KB95 11 300 XLPE CWS	63197
KB95	CABLE MODULE KB95 STOP END	63200
	Stress Cone Module for 630mm	40634
	Stress Cone Module for 0.06 PILC	63111

4.4 RESINS, SILICONES & GLUE	
DESCRIPTION	E5 CODE
For LOVINK Joints & Cable Boxes	
Top Up Module – 0.5L Lovisil & 0.62L Resin	63702
Lovisil Bag 4.9L	61667
500mL Lovisil Topping up bottle	41253
Lofit (Glue) & 2x Funnels	62441
RESIN 3 Part Polyurethane (TYCO or W T HENLEY)	
1.3 Litres	34252
3.2 Litres	34767
5.0 Litres	31095
6.5 Litres	31096

4.5 TERMINATIONS					
SUPPLIER	SUPPLIER PART NO	TYPE	DESCRIPTION	E5 CODE	AREA USED
REPL	RCSTI 12X 95-300-1/ML	Indoor	Indoor Termination 95-300mm al	63603	SW & Wales
REPL	RCSTI 12X 300-400-1/ML	Indoor	Indoor Termination 300-400mm cu	63604	SW & Wales
REPL	RCSTI 12X 630-1/ML	Indoor	Indoor Termination 630mm cu	63636	SW & Wales
REPL	RCSTI 12X 800-1/ML	Indoor	Indoor Termination 800mm cu	63605	SW & Wales
REPL	RCFB-1	Indoor	Cold Applied Bushing Boots	63606	SW & Wales

4.5 TERMINATIONS					
SUPPLIER	SUPPLIER PART NO	TYPE	DESCRIPTION	E5 CODE	AREA USED
TYCO	CSTI-3122-GB0x	Indoor	Indoor Termination 95-300mm al - (95-185mm)	63634	Midlands
TYCO	CSTI-3132-GB0x	Indoor	Indoor Termination 95-300mm al - (300mm)	63635	Midlands
TYCO	CSTI-3142-GB0x	Indoor	Indoor Termination 300-400mm cu	63604	Midlands
TYCO	CSTI-3152-GB0x	Indoor	Indoor Termination 630mm cu	63636	Midlands
TYCO	CSTI-3162-GB0x	Indoor	Indoor Termination 800mm cu	63605	Midlands
TYCO	SMOE-62803 - Without collar	Indoor	Cold Applied Bushing Boots - Without collar	63606	Midlands
REPL	RCSTO 12X 95-300-1/ML	Outdoor	Outdoor Termination 95-300mm al	63639	SW & Wales
REPL	RCSTO 12X 300-400-1/ML	Outdoor	Outdoor Termination 300-400mm cu	63607	SW & Wales
REPL	RCSTO 12X 630-1/ML	Outdoor	Outdoor Termination 630mm cu	63640	SW & Wales
REPL	RCSTO 12X 800-1/ML	Outdoor	Outdoor Termination 800mm cu	63608	SW & Wales
TYCO	CSTO-3122-GB0x	Outdoor	Outdoor Termination 95-300mm al (95-185mm)	63637	Midlands
TYCO	CSTO-3132-GB0x	Outdoor	Outdoor Termination 95-300mm al (300mm)	63638	Midlands
TYCO	CSTO-3142-GB0x	Outdoor	Outdoor Termination 300-400mm cu	63607	Midlands
TYCO	CSTO-3152-GB0x	Outdoor	Outdoor Termination 630mm cu	63640	Midlands
TYCO	CSTO-3162-GB0x	Outdoor	Outdoor Termination 800mm cu	63608	Midlands
REPL	RPCT-36S-P/R-95-300-35	Outer Cone	C Type Outer Cone Termination 95-300mm al (symmetrical)	63609	Midlands
REPL	RPCT-36S-T-300-400-35	Outer Cone	C Type Outer Cone Termination 300-400mm cu (symmetrical)	63643	Midlands
REPL	RPCT-36A-P/R-95-300-35	Outer Cone	C Type Outer Cone Termination 95-	63642	SW & Wales

4.5 TERMINATIONS					
SUPPLIER	SUPPLIER PART NO	TYPE	DESCRIPTION	E5 CODE	AREA USED
			300mm al (truncated)		
REPL	RPCT-36A-T-300-400-35	Outer Cone	C Type Outer Cone Termination 300-400mm cu (truncated)	63641	SW & Wales
TYCO	ELBC-5852-UK01 2479349-1	Outer Cone	C Type Outer Cone Termination 95-300mm al (truncated) - 95-185mm	63619	Midlands
TYCO	ELBC-5854-UK01 2479349-2	Outer Cone	C Type Outer Cone Termination 95-300mm al (truncated) - 300mm	63620	Midlands
TYCO	ELBC-5854-UK01 2479349-3	Outer Cone	C Type Outer Cone Termination 300-400mm cu (truncated) - 300mm	63621	Midlands
TYCO	ELBC-5854-UK01 2479349-4	Outer Cone	C Type Outer Cone Termination 300-400mm cu (truncated) - 400mm	63622	Midlands
NEXANS	3X(K400TB/G-S-018-95.300UN5-BIPA+MWS)-AS042	Outer Cone	C Type Outer Cone Termination 95-300mm al (symmetrical)	63609	SW & Wales
NEXANS	3X(K440TB/G-S-27-185.400UN5+MWS)-CW-AS042	Outer Cone	C Type Outer Cone Termination 300-400mm cu (symmetrical)	63643	SW & Wales
NEXANS	3x(K440TB/G-S-32-400.630UN5+MWS)-CW-AS042	Outer Cone	C Type Outer Cone Termination 630mm cu (symmetrical)	63644	All
NEXANS	3X(K489TB/G-S-37-800.1000UN5+MWS)-CW	Outer Cone	C Type Outer Cone Termination 800mm cu (symmetrical)	63623	All
NEXANS	K440CP + 676SA	Outer Cone	Piggy Back Adapter 1250A	63645	All
NEXANS	3X(162LR-B-95SAC-SB) CW	Live Break	Padmount - Live Break Termination 95mm with shear bolt connectors	63646	All
NEXANS	3x(1601A4)	Live Break	Padmount - Bushing Well Insert for Live Break Terminations	63647	All

4.6 HEATSHRINK ITEMS	
DESCRIPTION	E5 CODE
Breakout	40694
Sealing Sleeves 140/37 x 350	31170
Sealing Sleeves 52/16 x 130 SMOE 82003	40395
Repair Sleeve 76/22 x 150 Wrap around repair sleeve	31218

4.7 END CAPS			
SUPPLIER	SUPPLIER PART NO	DESCRIPTION	E5 CODE
3M	EC 1	11.6 – 20.9mm Ø End Cap	41693
3M	EC 2	15.9 – 30.1mm Ø End Cap	41692
3M	EC 3	26 – 49.2mm Ø End Cap	41691
3M	EC 4	45.5 – 84.3mm Ø End Cap	41690
		11kV Conductive end caps (set of 3)	63107

4.8 LUGS / CONNECTORS	
DESCRIPTION	E5 CODE
Brass Lug 60-12 (60mm)	39109
Brass Lug 120-12 (120mm)	39110
Brass Neutral Connector (BCNE)	39089
Brass Tunnel Connector (BTC360) Large Insulated	42959
Brass Tunnel Connector (BTC145) Small Insulated	42960
Brass Tunnel Connector (BTC6130) Long Insulated	42957
95-185mm Brass End Termination Connector	40409
300mm Brass End Termination Connector	40410
500-630mm Lug Connector	34255

4.9 POLE TERMINATION MISCELLANEOUS ITEMS			
SUPPLIER	SUPPLIER PART NO	DESCRIPTION	E5 CODE
		11kV Crucifix Bracket	40423
		11kV Crucifix Earth Strip & bolts	40422
		11kV Surge Arrestor (Box of 3)	61889
		Surge Arrestor Adaptor Plate	50415
		Cable Cleat 95mm ² EPR/XLPE Triplex	40438
		Cable Cleat 185mm ² EPR/XLPE Triplex	40439
		Cable Cleat 300mm ² EPR/XLPE Triplex	51423
ELLIS PATENTS	Emperor cleat ER40-46	Cable Cleat 400mm	Special Order
ELLIS PATENTS	Emperor cleat ER48-55	Cable Cleat 630mm	Special Order

4.10 CABLE BOX MISCELLANEOUS ITEMS		
SUPPLIER	DESCRIPTION	E5 CODE
	Compression Gland - 95/185/300mm ² EPR/XLPE Polyamide Cable Gland PG42	41265
CEMBRE	630mm ² EPR/XLPE Brass Cable Gland G2½	41264
CEMBRE	Lock nut for G2½ (2031212)	Special Order
CEMBRE	Brass Cable Gland G2 (200120041) (400mm ² EPR/XLPE)	Special Order
CEMBRE	Lock nut for G2 (2031200)	Special Order
	Aluminium Cable Gland EAKT 1608 (set of 3) SC 630mm	41266
	S/Gear Tube Gland	41400
	Insulated Earth Stud	41409
	Sili gasket 2	42350

4.11 TAPES		
SUPPLIER	DESCRIPTION	E5 CODE
	Black Cotton 19mm x 20m	32667
	PVC 'Scotch 35' Brown	38954
	PVC 'Scotch 88' Black	35830
	PVC 'Scotch 35' Grey	41195
	PVC 'Scotch 35' Blue	38953
	PVC 'Scotch 1500' Green/Yellow	32652
	PVC 'Scotch 35' White	38955
	Scotch '1700P' Temflex Phase marking tape - L1	41322
	Scotch '1700P' Temflex Phase marking tape - L2	41323
	Scotch '1700P' Temflex Phase marking tape - L3	41324
	Scotch '1700P' Temflex Phase marking tape - L	41327
	Scotch '1700P' Temflex Phase marking tape - N	41325
	Scotchfil Putty 38mm x 1.5m	31360
	Denso 50mm x 10m	32655
	Denso 75mm x 10m	32656
	Black Mastic Water Blocking Scotch 5313 (20mm x 2m)	39124
	Cable Marker (English) 250m	31352
	Cable Marker Bilingual (Welsh/English) 250m	37145
	ABB Rulle Tape 5.5m	40232
	"VM" (19mm x 6m) Scotch 2210	31350
	"VM" (101mm x 3m) Scotch 2210	31347
	Self-Fusing Silicone Rubber Electrical " Scotch 70 " (25mm x 9.1m)	41194
	Semi-conducting EPR/XLPE tape (19mm x 4.5m)	42423
	Gorilla Gaffer/Duct Tape	60928
	Scotch 2228 Tape 2"	TBC

4.12 MISCELLANEOUS ITEMS		
SUPPLIER	DESCRIPTION	E5 CODE
	Cable Ties (100mm x 2.5mm)	60758
	Cable Ties (200mm x 4.6mm)	60759
	Cable Ties (365mm x 4.6mm)	60760
	Cable Ties (370mm x 7mm)	60761
	Cable Ties (580mm x 12.7mm)	60762
	Sealing Putty	42532
	Whipping Thread	33625
	20 swg Tinned Copper Binding Wire	32176
	18 swg Tinned Copper Binding Wire	32175
	16 swg Tinned Copper Binding Wire	32174
	Paraffin Wax (1kg bag)	39009
	Oil Bath Saucepan	36976
	Damp test Thermometer	36977
	Emery Cloth 120 Grit (230 x 280mm)	31997
	150 Grit Aluminium Oxide Tape (25mm x 50m)	36970
	320 Grit Aluminium Oxide Tape (25mm x 50m)	36971
	400 Grit Aluminium Oxide Tape (25mm x 50m)	36972
	Copaslip Paste	37244
	Garot with cord	63355
	Spare Adaptor Tool (JTS/9) – Replacement for JTS/16	63760
	Stress Cone Applicator 630mm	41197
	Stress Cone Applicator Kit	61660
Additional items to be purchased from local sources when jointing Live Break Elbows.		
Terminal block 20A black PVC Green / Yellow 2.5mm ² wire		

4.13 CLEANING / DEGREASING ITEMS		
SUPPLIER	DESCRIPTION	E5 CODE
	Degreaser (5 litres)	31955
	Degreaser FD (1 litre)	31954
	Dry Wipes	32596
	Solvent Wipes (Bitumen)	51319

APPENDIX A

SUPERSEDED DOCUMENTATION

This Standard Technique supersedes ST: CA2S/4 dated July 2021 which has now been withdrawn.

APPENDIX B

RECORD OF COMMENT DURING CONSULTATION

ST: CA2S/5 – Comments

APPENDIX C

ASSOCIATED DOCUMENTATION

ST: CA2A, ST: CA2C, ST: CA2M, ST: CA2N, ST: CA2O, ST: CA2T, ST: CA2U, ST: CA2V.

APPENDIX D

RECORD OF COMMENT DURING CONSULTATION

No comments received.

APPENDIX E

KEY WORDS

E5 numbers for 11kV jointing materials, 11kV E5 codes.