



EQUIPMENT APPROVAL

EDF Energy Materials List

EA 00-0002 - Cables & Joints

Networks(s): EPN, LPN, SPN

Summary: This document details cables, joints and underground link boxes approved for use on the EDF Energy Networks. Materials and equipment that are not listed in this document will need to be approved before they are used on the network.

Originator: Paul Williams **Date:** 26/03/2008

Approved By: Paul Elliott **Approved Date:** 26/03/2008

Review Date: 26/03/2011

This document forms part of the Company's Integrated Business System and its requirements are mandatory throughout EDF Energy Networks Branch. Departure from these requirements may only be taken with the written approval of the Director of Asset Management. If you have any queries about this document please contact the originator of the current issue.

Document History

(The document history notes below are intended as a guide only and may not cover all of the changes. If you wish to make use of this document it should be read in full.)

Version	Date	Details	Originator
1.0	12/03/2007	Original Version	P Williams
2.0	26/03/2008	Updated Version	P Williams

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1. Introduction

This Approval document details the approved range of cables, plant, equipment, auxiliary items and standard drawings used to construct distribution assets for connection to the EDF Energy network.

Only equipment approved by EDF Energy shall be used to construct electrical substations and services.

This document will be updated as required when new equipment is approved by the Technology Development and Standards Department.

Further information will be added and this document will be expanded as requirements for further information on the range of equipment used is identified.

2. Scope

The document covers all Cables, Joints and underground link boxes.

3. Details

Each worksheet contains details of specific cable, plant or drawings types. Each worksheet will detail the requirements specific to each network (EPN, LPN or SPN). Wherever possible EDF Energy is working to harmonise these requirements

Where the information is available the work sheets provide the following information:


1. Description/Application
2. Network Approved
3. Comments
4. Manufacturer's model/type reference or drawing number
5. Approved supplier
6. SAP Number
7. Approval Document Number

4. Actions Required

This document should be issued to both internal and external staff who require details of EDF Energy's approved plant, equipment and cables.

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Material & Equipment Type	Description of Materials and Equipment	EPN	LPN	SPN
Cables and Joints				
11kV cables	11kV cables that have been approved for use on the EDF Energy network			
11kV Joints and Terminations	11kV joints and terminations to be used for the connection of 11kV cables			
33kV Cables	33kV cables that have been approved for use on the EDF Energy network			
33kV Joints & Terminations	33kV joints and terminations to be used for the connection of 33kV cables			
LV Link Boxes & Underground Distribution Boxes	LV link boxes used to provide isolation and control points within the LV network and underground distribution Boxes			
LV Mains Cables	LV mains cables used to provide the EDF Energy LV network			
Cable laying accessories	Includes Tile tape, cable gaurds, ducts and duct seals			
LV Service Cables	LV service cables used to connect customers services to the EDF Energy LV network			
Pilot & Telephone Cables	Multicore pilot and multipair telephone cables			
LV Joints	LV joints and terminations to be used for the connection of LV cables			
Polyurethane Resin	Polyurethane Resin used to give mechanical protection and insulation to LV joints			
				

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11kV Cable

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
11kV Mains Cable					
Triplex 95mm ² Single core 11kV mains cable with stranded aluminium conductor, XLPE insulation, 35mm ² Copper wire screen and red LLDPE outer sheath	All		N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06000B
Triplex 185mm ² Single core 11kV mains cable with stranded aluminium conductor, XLPE insulation, 70mm ² Copper wire screen and red LLDPE outer sheath	All		N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06001L
Triplex 300mm ² Single core 11kV mains cable with stranded aluminium conductor, XLPE insulation, 70mm ² Copper wire screen and red LLDPE outer sheath	All		N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06002V
Triplex 300mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red LLDPE outer sheath	All		N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06003F
95mm ² Single core 11kV mains cable with stranded aluminium conductor, XLPE insulation, 35mm ² Copper wire screen and red LSOH outer sheath	All	For Use in Cable Basements, Buildings & Tunnels	N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06004Q
185mm ² Single core 11kV mains cable with stranded aluminium conductor, XLPE insulation, 70mm ² Copper wire screen and red LSOH outer sheath	All	For Use in Cable Basements, Buildings & Tunnels	N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06005A

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
300mm ² Single core 11kV mains cable with stranded aluminium conductor, XLPE insulation, 70mm ² Copper wire screen and red LSOH outer sheath	All	For Use in Cable Basements, Buildings & Tunnels	N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06006K
300mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red LSOH outer sheath	All	For Use in Cable Basements, Buildings & Tunnels	N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06007U

11kV Transformer Tail Cable

400mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red PE outer sheath	All		N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06020T
500mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red PE outer sheath	All		N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06021D
630mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red PE outer sheath	All		N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06022N
800mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red PE outer sheath	All		N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06023X
400mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red LSOH outer sheath	All	For Use in Cable Basements, Buildings & Tunnels	N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06024H

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Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
500mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red LSOH outer sheath	All	For Use in Cable Basements, Buildings & Tunnels	N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06025S
630mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red LSOH outer sheath	All	For Use in Cable Basements, Buildings & Tunnels	N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06026C
800mm ² Single core 11kV mains cable with stranded copper conductor, XLPE insulation, 70mm ² Copper wire screen and red LSOH outer sheath	All	For Use in Cable Basements, Buildings & Tunnels	N/A	Nexans UK , Tandy House, Felixstowe Road, Abbey Wood, London SE2 9AA or Prysmian Cables & Systems Limited , Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	06027M



11kV Joints & Terminations

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number	Resin Volume (Litres)
11kV Transition Straight & Branch Joints						
Transition Straight - XLPE to PILC/PICAS/PICAS - 95 to 185mm *	All	Requires 3-part polyurethane resin	SMOE-63410	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	04120S	13
Transition Straight - XLPE to PILC/PICAS - 240 to 300mm *	All	Requires 3-part polyurethane resin	SMOE-63411		04121C	15
Transition Branch - XLPE to PILC/PICAS/PICAS - 95 to 185mm *	All	For PILC/PICAS Main with XLPE Branch - Requires 3-part polyurethane resin	SMOE-63412		04122M	36
Transition Branch - XLPE to PILC/PICAS/PICAS - 240 to 300mm *	All	For PILC/PICAS Main with XLPE Branch - Requires 3-part polyurethane resin	SMOE-63413		04123W	45
Transition Loop - XLPE to PILC/PICAS/PICAS - 95 to 185mm *	All	Requires 3-part polyurethane resin	SMOE-63440		04137U	21
Transition Loop - XLPE to PILC/PICAS/PICAS - 240 to 300mm *	All	Requires 3-part polyurethane resin	SMOE-63441		04138E	38
Six Core PILC/PICAS Transition Straight 95 to 285mm	All	Requires 3-part polyurethane resin	SMOE-63605		04139P	45
PILC Build Up Kit for Above Joints	All	For use on small PILC cables with transition straight & branch joints	SMOE-63429		04125R	N/A
13.1kA Earth Kit	LPN & SPN	For use on PILC cables above 95mm in LPN and SPN areas ONLY	SMOE-63414		04124G	N/A
Vertical Transition Straight - XLPE to PILC 150 to 300mm	All	Resin-less straight joint used for RMU replacement in buildings	SMOE-62667		04126B	N/A
PILC Build Up Kit for Above Joint - 70mm cables	All	For use on small PILC cables with vertical transition straight joints	SMOE-62900		04127L	N/A
PILC Build Up Kit for Above Joint - 95mm cables	All	For use on small PILC cables with vertical transition straight joints	SMOE-62901		04128V	N/A
Polymeric Preparation Kit for Transition Joints - 95 to 150mm	All	Additional materials required when installing more than one set of XLPE cables into a transition joint	SMOE-63415		04129F	N/A
Polymeric Preparation Kit for Transition Joints - 185 to 300mm	All	Additional materials required when installing more than one set of XLPE cables into a transition joint	SMOE-63416		04130B	N/A
PILC Cable Preparation Kit - 95 to 185mm	All	Additional materials required when installing more than one set of PILC cables into a transition joint	SHSM-12AL(2)		04140K	N/A
PILC Cable Preparation Kit - 240 to 300mm	All	Additional materials required when installing more than one set of PILC cables into a transition joint	SHSM-12BL(1)	04141U	N/A	
Three Core Polymeric Cable Preparation Kit	All	Additional materials for use with a three core polymeric cable when installed in a transition straight joint	SMOE-63439	04134Q	N/A	

* When used with Polylam cables these joints require additional earth kits. As detailed below.

PILC/PICAS Joints

Three core PILC/PICAS Pot End	All	Requires 3-part polyurethane resin	SMOE-61757	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	04133F	14
PILC/PICAS Straight - 95 to 185mm	All	Requires 3-part polyurethane resin	SOME-63417		04131L	12
PILC/PICAS Straight - 240 to 300mm	All	Requires 3-part polyurethane resin	SOME-63418		04132V	25
PILC/PICAS Branch - 95 to 185mm	All	Requires 3-part polyurethane resin	SOME-61987		04135A	45
PILC/PICAS Branch - 240 to 300mm	All	Requires 3-part polyurethane resin	SOME-61988		09434K	45

11kV XLPE to XLPE Joints

Single core Straight 35 to 95mm *	All	Heatshrink kit - 1 joint per phase	SMOE-63401	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	04100A	N/A
Single core Straight 150 to 300mm *	All	Heatshrink kit - 1 joint per phase	SMOE-63402		04101K	N/A
Triplex Straight - 35 to 95mm *	All	Three Phase Joint	SMOE-63403		04102U	6
Triplex Straight - 150 to 300mm *	All	Three Phase Joint	SMOE-63404		04103E	6
Triplex Pot End 95 to 185mm *	All	Three Phase Joint	SMOE-63407		04106J	14
Triplex Pot End 240 to 300mm *	All	Three Phase Joint	SMOE-63408		04107T	14
Single Core Branch 95 to 150mm *	All	Heatshrink kit - 1 joint per phase	SMOE-63405		04104P	10
Single Core Branch 185 to 300mm *	All	Heatshrink kit - 1 joint per phase	SMOE-63406		04105Y	10

* When used with Polylam cables these joints require additional earth kits. As detailed below.

11kV Terminations for Distribution Switchgear

Single core poly Indoor 95 to 185mm	All	Heatshrink kit - set of 3 - included Phase Lugs	SMOE-63419	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	04150T	N/A
Single core poly Indoor 240 to 300mm	All	Heatshrink kit - set of 3 - included Phase Lugs	SMOE-63420		04151D	N/A
Single core poly Outdoor 95 to 185mm	EPN & SPN	Heatshrink kit - set of 3 - included Phase Lugs, metal cricifix and earth connection	SMOE-63421		04152N	N/A
Single core poly Indoor 95mm for Small existing T1 Cable Boxes	All	Heatshrink kit - set of 3 - included Phase Lugs, heatshrink boots and cable gland	SMOE-62831		04154H	N/A
Right Angle/In-Line Boot Kit 95mm to 300mm	All	Cold Applied Boots - set of 3	SMOE-62803		04155S	N/A

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number	Resin Volume (Litres)
Stand-off Insulator (set of 3)	EPN & SPN	For use with Outdoor Termination kits to complete a pole termination	EPBI 1000	om	04153X	N/A
11kV Surge arrester	EPN & SPN	For use with Outdoor Termination kits to create a pole termination with surge arresters	DLA1-12S-NLF		09034K	N/A
11kV Earthing Kits for Polylam Cable						
Polylam Cable Earth kit	EPN	For use with polylam cables in all joints and terminations	SOME-63409	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	04108D	N/A
11kV Terminations for Primary Transformers and Switchgear						
Single core poly Indoor 400mm	All	Heatshrink kit - set of 3 - included Phase Lugs	SMOE-63430	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	04170L	N/A
Single core poly Outdoor 400mm	All	Heatshrink kit - set of 3 - included Phase Lugs	SMOE-63431		04171V	N/A
Single core poly Indoor 500 to 630mm	All	Heatshrink kit - set of 3 - included Phase Lugs	SMOE-63432		04172F	N/A
Single core poly Outdoor 500 to 630mm	All	Heatshrink kit - set of 3 - included Phase Lugs	SMOE-63433		04173Q	N/A
Single core poly Indoor 800mm	All	Heatshrink kit - set of 3 - included Phase Lugs	SMOE-63436		04174A	N/A
Single core poly Outdoor 800mm	All	Heatshrink kit - set of 3 - included Phase Lugs	SMOE-63437		04175K	N/A



11kV Cable

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
33kV Cable					
300mm ² Single core 33kV mains cable with stranded aluminium conductor, XLPE insulation (bonded screen), 50mm ² Copper wire screen and black MDPE outer sheath.	All		N/A	<p>Quintas & Quintas, PO Box 18, Lugar do Paco - Gandra, 4741-909 Esposende, Portugal</p> <p>or</p> <p>Tele-Fonika Cable S.A., Fordonska 152, 89-957 Bydgoszcz, Poland</p> <p>or</p> <p>Synergy Cables (via Premier Cables), 83 Leicester Road, Luton, Bedfordshire, LU4 8SG</p> <p>or</p> <p>Prysmian Cable & Systems, Chickenhall Lane, Bishopstoke, Eastleigh, Hampshire, SO50 6YU</p>	06115R
500mm ² Single core 33kV mains cable with stranded aluminium conductor, XLPE insulation (bonded screen), 50mm ² Copper wire screen and black MDPE outer sheath.	All		N/A	<p>Quintas & Quintas, PO Box 18, Lugar do Paco - Gandra, 4741-909 Esposende, Portugal</p> <p>or</p> <p>Tele-Fonika Cable S.A., Fordonska 152, 89-957 Bydgoszcz, Poland</p> <p>or</p> <p>Synergy Cables (via Premier Cables), 83 Leicester Road, Luton, Bedfordshire, LU4 8SG</p> <p>or</p> <p>Prysmian Cable & Systems, Chickenhall Lane, Bishopstoke, Eastleigh, Hampshire, SO50 6YU</p>	06116B
630mm ² Single core 33kV mains cable with stranded aluminium conductor, XLPE insulation (bonded screen), 50mm ² Copper wire screen and black MDPE outer sheath.	All		N/A	<p>Quintas & Quintas, PO Box 18, Lugar do Paco - Gandra, 4741-909 Esposende, Portugal</p> <p>or</p> <p>Tele-Fonika Cable S.A., Fordonska 152, 89-957 Bydgoszcz, Poland</p> <p>or</p> <p>Synergy Cables (via Premier Cables), 83 Leicester Road, Luton, Bedfordshire, LU4 8SG</p> <p>or</p>	06117L

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Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
				Prysmian Cable & Systems , Chickenhall Lane, Bishopstoke, Eastleigh, Hampshire, SO50 6YU	
630mm ² Single core 33kV mains cable with stranded copper conductor, XLPE insulation (bonded screen), 50mm ² Copper wire screen and black MDPE outer sheath.	All		N/A	Quintas & Quintas , PO Box 18, Lugar do Paco - Gandra, 4741-909 Esposende, Portugal or Tele-Fonika Cable S.A. , Fordonska 152, 89-957 Bydgoszcz, Poland or Synergy Cables (via Premier Cables) , 83 Leicester Road, Luton, Bedfordshire, LU4 8SG or Prysmian Cable & Systems , Chickenhall Lane, Bishopstoke, Eastleigh, Hampshire, SO50 6YU	06104X
800mm ² Single core 33kV mains cable with stranded copper conductor, XLPE insulation (bonded screen), 50mm ² Copper wire screen and black MDPE outer sheath.	All		N/A	Quintas & Quintas , PO Box 18, Lugar do Paco - Gandra, 4741-909 Esposende, Portugal or Tele-Fonika Cable S.A. , Fordonska 152, 89-957 Bydgoszcz, Poland or Synergy Cables (via Premier Cables) , 83 Leicester Road, Luton, Bedfordshire, LU4 8SG or Prysmian Cable & Systems , Chickenhall Lane, Bishopstoke, Eastleigh, Hampshire, SO50 6YU	06105H

When any of the above cables are used in cable basements, buildings or Tunnels the red outer MDPE sheath shall be replaced with a red LSOH Sheath.



33kV Joints & Terminations

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number	Resin Pack Required
XLPE to XLPE Straight Joints						
Single-core XLPE straight 185 to 300mm	All	Single-core Heatshrink Joint including mechanical connectors	MXSU 6131-GB01	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02640P	N/A
Single-core XLPE straight 500 to 500mm	All	Single-core Heatshrink Joint including mechanical connectors	MXSU 6151-GB02	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02641Y	N/A
Single-core XLPE straight 630 to 630mm	All	Single-core Heatshrink Joint including mechanical connectors	MXSU 6161-GB02	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02642J	N/A
Single-core XLPE straight 800 to 800mm	All	Single-core Heatshrink Joint including mechanical connectors	MXSU 6171-GB01	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02643T	N/A
Single-core XLPE straight 185/400 to 630mm	All	Single-core Heatshrink Joint including mechanical connector for Copper Wire Screen. Use with mechanical phase connectors 02665F and 02668K.	SXSU 6142-GB01	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02642J	N/A
XLPE Pot End Joints						
Single-core XLPE pot end 185 to 400mm	All	Three x Single-core Heatshrink Joints	EPKE 36C 1XU-GB01	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02645N	N/A
Single-core XLPE pot end 500 to 630mm	All	Three x Single-core Heatshrink Joints	TBA	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02646X	N/A
Single-core XLPE to PILC Transition Joints						
Single-core XLPE to PILC straight 185 to 500mm	All	Single-core Heatshrink Joint excluding mechanical connectors. Use with mechanical connector phase connectors 02671A and 02665F. Can accommodate smaller section cables using build up kit 02651H.	EPKJ 36C 1XU-1HL-GB06	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02647H	N/A
Single-core XLPE to PILC straight 500 to 630mm	All	Single-core Heatshrink Joint excluding mechanical connectors. Use with mechanical connector phase connectors 02666Q, 02667A and 02669U	EPKJ 36D 1XU-1HL-GB03	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02648S	N/A
Three core PILC ('H' type) to Single-core XLPE Joints						
Resin Filled three core transition straight joint, Single-core XLPE 185 to 500mm to 3c H type PILC 185 to 400mm	All	Complete joint excluding mechanical connectors. Use with mechanical connector phase connectors 02671A and 02665F. Can accommodate smaller section cables using build up kit 02651H. Requires polyurethane resin to encapsulate	Smoe-63751	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02649C	35 Litres
All Heatshrink three core transition straight joint, Single-core XLPE 500 to 630 to 3c H type PILC 185 to 400mm	All	Complete joint excluding mechanical connectors. Use with mechanical connector phase connectors 02665F and 02668K. Can accommodate smaller section cables using build up kit 02651H. Requires polyurethane resin to encapsulate	Smoe-63752	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02650X	N/A
Build up kit for paper cables	All	For use on small paper cables in trifurcating straight joints	Smoe-62191	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02651H	N/A
HSL module	All	Converts 3-core PILC Transition into HSL to Single-core XLPE joint	Smoe-62909	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02653C	N/A
Single-core XLPE Indoor/Outdoor Terminations						
Single-core XL PE				Energy Division Tyco		

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Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number	Resin Pack Required
Single-core XLPE Indoor/outdoor Termination kit 185mm	All	Kit contains heatshrink components lugs for 3 Single-core cables. Use with Mechanical Lug pack 02675P.	EPKT 36D 1XO - GB03	Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02660G	N/A
Single-core XLPE Indoor/outdoor Termination kit 300 to 500mm	All	Kit contains heatshrink components lugs for 3 Single-core cables. Use with Mechanical Lug packs 02675P and 02676Y.	EPKT 36E 1XO - GB02	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02661R	N/A
Single-core XLPE Indoor/outdoor Termination kit 630 to 800mm	All	Kit contains heatshrink components lugs for 3 Single-core cables. Use with Mechanical Lug packs 02676Y and 02677J.	EPKT 36F 1XO - GB01	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02662B	N/A
33kV Surge arrester	EPN & SPN only	For use with Outdoor Termination kits to create a pole termination with surge arresters	HSRC 36L7E1M0	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	09427F	N/A
Outdoor Termination Support Bracket	EPN & SPN only	For use with Outdoor Termination kits to create a pole termination with surge arresters	EPPA-031	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02680Y	N/A

Mechanical Connector Packs

Straight connector 185/500 to 500mm	All	Single mechanical connector	BSMB 185/400 - 500	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02665F	N/A
Straight connector 500 to 500mm	All	Single mechanical connector	BSMB 500	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02666Q	N/A
Straight connector 500 to 630mm	All	Single mechanical connector	BSMB 500 - 630	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02667A	N/A
Straight connector 185/400 to 630mm	All	Single mechanical connector	BSMB 185/400 - 630	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02668K	N/A
Straight connector 630 to 630mm	All	Single mechanical connector	BSMB 630	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02669U	N/A
Straight connector 800 to 800mm	All	Single mechanical connector	BSMB 800	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02670Q	N/A
Straight connector up to 300mm	All	Single mechanical connector	BSMB 95 - 300GB	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02671A	N/A

Mechanical Lug Packs

185 to 400mm mechanical lug pack	All	Three mechanical phase lugs & three copper wire screen lugs	EDFE-KIT01 (BAH-038080872)	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02675P	N/A
500 to 630mm mechanical lug pack	All	Three mechanical phase lugs & three copper wire screen lugs	EDFE-KIT02 (BAH-038080873)	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02675Y	N/A
800mm mechanical lug pack	All	Three mechanical phase lugs & three copper wire screen lugs	EDFE-KIT03 (BAH-038080874)	Energy Division Tyco Electronics Ltd.Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02677J	N/A



LV Link Boxes & Underground Distribution Boxes

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
LV Link Boxes					
2-Way Untailed Insulated Link Box, complete with pit frame and pavement cover, plus 3 x 400A Links	All	Complete unit minus 21.0 litres polyurethane resin	82202000L	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	04490B
2-Way Tailed Insulated Link Box, complete with pit frame and pavement cover, plus 3 x 400A Links & factory fitted with 2 x 3 metre 300mm ² Waveform Cable Tails	All	Complete unit minus 21.0 litres polyurethane resin	82202T30L	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	04491L
4-Way Untailed Insulated Link Box, complete with pit frame and pavement cover, plus 12 x 400A Links	All	Complete unit minus 40.0 litres polyurethane resin	82402000L	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	04493F
4-Way Tailed Insulated Link Box, complete with pit frame and pavement cover, plus 12 x 400A Links & factory fitted with 4 x 3 metre 300mm ² Waveform Cable Tails	All	Complete unit minus 40.0 litres polyurethane resin	82402T30L	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	04494Q
LV Underground Distribution Boxes					
LV 12S-A Way Underground Service Distribution Unit	All	LV Underground Distribution Unit (re-enterable suitable for 12 connections with a combination of 3 phase, single phase and street lights). Mains cable 95-300mm ² , Service cables 16-35mm ²	LVD/12S-A	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02500W
LVD/12S-F - G78 use only	All	For use on G78 Phone mast installations LV Underground Distribution Unit (re-enterable suitable for 12 connections with a combination of 3 phase, single phase and street lights). Mains cable 95-300mm ² , Service cables 16-35mm ²	LVD/12S-F	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	TBA
LVD/18S-A Way Underground Service Distribution Unit	All	LV Underground Distribution Unit (re-enterable suitable for 18 connections with a combination of 3 phase, single phase and street lights). Mains cable 95-300mm ² , Service cables 16-35mm ²	LVD/18S-A	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02501G
LVD/24S-A Way Underground Service Distribution Unit	All	LV Underground Distribution Unit (re-enterable suitable for 24 connections with a combination of 3 phase, single phase and street lights). Mains cable 95-300mm ² , Service cables 16-35mm ²	LVD/24S-A	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02502R
Block Pavior Pavement Frame & Cover	All	Block Pavior Pavement Frame & Cover	4816	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02507Q
Access Chamber	All	Access Chamber to be used in conjunction with LVD/12S-A, LVD/12S-F, LVD/18S-A and LVD24S-A underground distribution boxes and a pavement cover (4816 or 4815) may be used as appropriate	4038	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02505V
Concrete Pavement Cover	All	Concrete Pavement Cover	4815	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02506F

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Low Voltage Service Cable

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
Low Voltage Service Cable					
4mm ² Copper Service Cable concentric single-phase service cable with stranded copper conductor, XLPE insulation and copper concentric combined neutral/earth conductor	LPN & SPN Only	Single-phase 25A Public Lighting PME Supply	4 STRCON	Copper Cable Company, Interlink Park, Bardon Hill NR. Coalville, Leicestershire LE67 1LA	05860K
16mm ² Aluminium concentric single-phase service cable with solid aluminium conductor, XLPE insulation and copper concentric combined neutral/earth conductor	EPN Only	Single-phase 25A Public Lighting PME Supply	16 HYBRAL	Copper Cable Company, Interlink Park, Bardon Hill NR. Coalville, Leicestershire LE67 1LA	05574K
35mm ² Aluminium single-phase concentric service cable with solid aluminium conductor, XLPE insulation and copper concentric combined neutral/earth conductor	All	Single-phase 100A Domestic / Commercial PME Supply	35 HYBRAL	Copper Cable Company, Interlink Park, Bardon Hill NR. Coalville, Leicestershire LE67 1LA	05176Y
35mm ² Aluminium concentric three-phase service cable with solid aluminium conductor, XLPE insulation and copper concentric combined neutral/earth conductor	All	Three-phase 100A Domestic / Commercial PME Supply	35 HYBRA3	Copper Cable Company, Interlink Park, Bardon Hill NR. Coalville, Leicestershire LE67 1LA	05903U
25mm ² copper split concentric cable with stranded copper conductor, XLPE insulation and insulated copper concentric separate neutral and bare copper earth conductors	All	Single-phase 100A Domestic / Commercial SNE Supply	25 SPTCON	Copper Cable Company, Interlink Park, Bardon Hill NR. Coalville, Leicestershire LE67 1LA	05884R

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Pilot & Telephone Cable

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
Multicore Pilot Cable					
4 core 2.5 mm ² copper conductor multicore pilot cable with stranded copper conductor, XLPE insulation, extruded bedding, steel wire armour and with a black PVC sheath	All	Manufactured to BS 7870 - 8.3		North West Cables Ltd. School Lane, Knowsley, Merseyside L34 9HD	05971L
7 core 2.5 mm ² copper conductor multicore pilot cable with stranded copper conductor, XLPE insulation, extruded bedding, steel wire armour and with a black PVC sheath	All	Manufactured to BS 7870 - 8.4		North West Cables Ltd. School Lane, Knowsley, Merseyside L34 9HD	05972V
12 core 2.5 mm ² copper conductor multicore pilot cable with stranded copper conductor, XLPE insulation, extruded bedding, steel wire armour and with a black PVC sheath	All	Manufactured to BS 7870 - 8.5		North West Cables Ltd. School Lane, Knowsley, Merseyside L34 9HD	05973F
19 core 2.5 mm ² copper conductor multicore pilot cable with stranded copper conductor, XLPE insulation, extruded bedding, steel wire armour and with a black PVC sheath	All	Manufactured to BS 7870 - 8.6		North West Cables Ltd. School Lane, Knowsley, Merseyside L34 9HD	05974Q
27 core 2.5 mm ² copper conductor multicore pilot cable with stranded copper conductor, XLPE insulation, extruded bedding, steel wire armour and with a black PVC sheath	All	Manufactured to BS 7870 - 8.7		North West Cables Ltd. School Lane, Knowsley, Merseyside L34 9HD	05975A
Multipair Telephone Cable					
4 pair 0.8 mm ² copper conductor multipair jelly filled cable with solid copper conductor, PE insulation, extruded PE bedding, steel wire armouring and black PVC Sheath	All	Manufactured to BS7870 - 8.2 - Table where the induced voltage does not exceed 15kV		Copper Cable Company, Interlink Park, Bardon Hill NR. Coalville, Leicestershire LE67 1LA	05960S
7 pair 0.8 mm ² copper conductor multipair cable with solid copper conductor, PE insulation, extruded PE bedding, steel wire armouring and black PVC Sheath	All	Manufactured to BS7870 - 8.2 - Table where the induced voltage does not exceed 15kV		Copper Cable Company, Interlink Park, Bardon Hill NR. Coalville, Leicestershire LE67 1LA	05526L
7 pair 0.8 mm ² copper conductor multipair jelly filled cable with solid copper conductor, PE insulation, extruded PE bedding, steel wire armouring and black PVC Sheath	All	Manufactured to BS7870 - 8.2 - Table where the induced voltage does not exceed 15kV		Copper Cable Company, Interlink Park, Bardon Hill NR. Coalville, Leicestershire LE67 1LA	05961C
19 pair 0.8 mm ² copper conductor multipair jelly filled cable with solid copper conductor, PE insulation, extruded PE bedding, steel wire armouring and black PVC Sheath	All	Manufactured to BS7870 - 8.2 - Table where the induced voltage does not exceed 15kV		Copper Cable Company, Interlink Park, Bardon Hill NR. Coalville, Leicestershire LE67 1LA	05527V

When any of the above cables are used in cable basements, buildings or Tunnels the black outer PVC sheath shall be replaced with a black LSOH Sheath.

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Low Voltage Mains Cable

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
Low Voltage Mains Cable					
95mm ² Aluminium Waveform mains cable with solid aluminium conductor, XLPE insulation and copper waveform combined neutral/earth conductor with a black PVC sheath	All		VLBA3J95BA0ABK	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	05577P
185mm ² Aluminium Waveform mains cable with solid aluminium conductor, XLPE insulation and copper waveform combined neutral/earth conductor with a black PVC sheath	All		VLBA3L18BA0ABK	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	05579J
300mm ² Aluminium Waveform mains cable with solid aluminium conductor, XLPE insulation and copper waveform combined neutral/earth conductor with a black PVC sheath	All		VLBA3L30BA0ABK	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	05588H
Low Voltage Mains Cable with a Low Smoke Zero Halogen Sheath					
95mm ² Aluminium Waveform mains cable with solid aluminium conductor, XLPE insulation and copper concentric combined neutral/earth conductor with an orange LSOH sheath	All		N/A	Nexans Ireland Ltd, Cornamaddy, Athlone, County Westmeath, Ireland	05594C
185mm ² Aluminium Waveform mains cable with solid aluminium conductor, XLPE insulation and copper concentric combined neutral/earth conductor with an orange LSOH sheath	All		N/A	Nexans Ireland Ltd, Cornamaddy, Athlone, County Westmeath, Ireland	05595M
300mm ² Aluminium Waveform mains cable with solid aluminium conductor, XLPE insulation and copper concentric combined neutral/earth conductor with an orange LSOH sheath	All		N/A	Nexans Ireland Ltd, Cornamaddy, Athlone, County Westmeath, Ireland	05596W

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Cable laying accessories

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
Tile Tape					
Tile Tape for use up to 22kV	All	Tile tape for use up to 22kV must be marked with EDF Energy name. Provided in 40M coils x 200mm (wide) x 2.5mm (thick) To be laid over entire run of cable and joints (EDF Energy Specification ES 02-1000)	NA	Centriforce Product Limited Centriforce Products Ltd 14-16 Derby Road Liverpool L20 8EE www.centriforce.info	04040C
Tile Tape for use 33kV and above	All	Tile tape for use at 33kV and above must be marked with EDF Energy name. Provided in 1000mm long x 244mm (wide) x 9mm (thick) To be laid over entire run of cable and joints (EDF Energy Specification ES 02-1000)	NA	Centriforce Product Limited Centriforce Products Ltd 14-16 Derby Road Liverpool L20 8EE www.centriforce.info	04041M
Ducts (for LV and 11kV Cables)					
32 mm Coilable Service Duct (100 metres)	All		PD3237X100BEPE	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25400F
50 mm Coilable Service Duct (50 metres)	All		PD5060X50BEPE	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25401Q
100 mm Solid Rigiduct (2 metre length)	All		RB100X2	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25416X
125 mm Solid Rigiduct (2 metre length)	All		RB125X2	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25411Y
125 mm Solid Rigiduct (6 metre length)	All		RB125X6	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25045J
150 mm Solid Rigiduct (2 metre length)	All		RB150X2	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25417H
125 mm Solid Rigiduct Bend (30°)	All		BRB125X30X0.9	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25413T

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Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
Rigiduct split 100 mm x 1m	All		RBS100X1S	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25418S
Rigiduct split 125 mm x 1m	All		RBS125X1S	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25412J
Rigiduct split 150 mm x 1m	All		RBS150X1S	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25414D
Meterbox Cable Capping (1200 mm)	All		MG 010X1.2	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	11700J
Hockey Stick - Black (38 x 1700 mm)	All		HSPV020BLACK	Polypipes Civils Limited Union Works Bishop Meadow Rd Loughborough LE11 5RE www.polypipecivils.co.uk	25404U

Ducts (for 33kV and above Cables)

88.9 mm OD uPVC duct (6 metre length)	All		5079T	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08985W
88.9 mm OD uPVC 11.25° duct bend	All		5492	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	N/A
88.9 mm OD uPVC 22.5° duct bend	All		5118	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08989L
88.9 mm Connector Sleeve	All		5306	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	N/A
125 mm OD uPVC duct (6 metre length)	All		5080T	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08986G
125 mm OD uPVC 11.25° duct bend	All		4736B	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	N/A
125 mm OD uPVC 22.5° duct bend	All		5427	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08990G
125 mm Connector Sleeve	All		5621	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	N/A
160 mm OD uPVC duct (6 metre length)	All		3769S	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08987R
160 mm OD uPVC 11.25° duct bend	All		5482	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	N/A

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Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
160 mm OD uPVC 22.5° duct bend	All		5479	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08991R
160 mm Connector Sleeve	All		3748	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	N/A
200 mm OD uPVC duct (6 metre length)	All		5305T	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08988B
200 mm OD uPVC 11.25° duct bend	All		5343	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	N/A
200 mm OD uPVC 22.5° duct bend	All		5309	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08992B
200 mm Connector Sleeve	All		5310	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	N/A

Cable Guards

Cable guard PVC for cables with a diameter of 20mm or less	All		9493	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	09000P
Cable guard PVC for cables with a diameter of 38mm or less	All		9494	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08177W
Cable guard PVC for cables with a diameter of 50mm or less	All		9495	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	0901Y
Cable guard PVC for cables with a diameter of 64mm or less	All		9496	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08171N
Cable guard PVC for cables with a diameter of 80mm or less	All		9497	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08171N
Earth wire guard PVC for cables with a diameter of 20mm or less	All		9493	Emtelle UK Ltd. Haughead, Hawick, Scotland. TD9 8LF	08178G

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
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Duct seals

45-60mm internal Diameter Duct Seals	All	Cable Duct Seal (Single cable) Suitable for Ducts between: 45-60mm Diameter with cables 0 – 45mm. Suitable for sealing empty ducts	RDSS 60	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02560Y
55-75mm internal Diameter Duct Seals	All	Cable Duct Seal (Single cable) Suitable for Ducts between: 55-75mm Diameter with cables 0 – 56mm. Suitable for sealing empty ducts	RDSS 75	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02561J
Clip for use with Triplex cable	All	Cable Duct Clip (Add if installing triplex cable)	RDSS-Clip-75	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02571S
75-120mm internal Diameter Duct Seals	All	Cable Duct Seal (Single cable) Suitable for Ducts between: 75-120mm Diameter with cables 0 – 100mm. Suitable for sealing empty ducts except 115 & 120mm ducts	RDSS 100	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02562T
Clip for use with Triplex cable	All	Cable Duct Clip (Add if installing triplex cable) into	RDSS-Clip-100	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02572C
100-150 mm internal Diameter Duct Seals	All	Cable Duct Seal (Single cable) Suitable for Ducts between: 100-150mm Diameter with cables 0 – 130mm. Suitable for sealing empty ducts except 130, 135, 140, 145 & 150mm ducts	RDSS 125	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02563D
Clip for use with Triplex cable	All	Cable Duct Clip (Add if installing triplex cable)	RDSS-Clip-125	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02573M
125-180mm internal Diameter Duct Seals	All	Cable Duct Seal (Single cable) Suitable for Ducts between: 125-180mm Diameter with cables 60 – 160mm. Not suitable for empty ducts	RDSS 150	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02564N
Clip for use with Triplex cable	All	Cable Duct Clip (Add if installing triplex cable)	RDSS-Clip-150	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	02574W
Inflation Tool	All	Inflation Tool	RDSS-IT-16	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	32290H
Gas Cylinder	All	Gas Cylinder solid in boxes of 10, each cylinder will inflate approximately 5 RDSS-100 duct seals.	E7512-0160	Energy Division Tyco Electronics Ltd. Freebournes Road, Witham Essex, CM8 3AH www.tycoelectronics.com	27330H

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Low Voltage Joints

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number	Resin Pack Required
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Service to Service Straight Joints

Single Phase CNE 4mm ² to 4mm ²	LPN & SPN		SSJ1/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	01710R	1.3 Litres
Single Phase CNE 4mm ² to 35mm ²	All		SSJ2/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02711F	1.3 Litres
Single Phase Transition 4mm ² to 4mm ²	LPN & SPN		SSJ3/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	01713V	1.8 Litres
Single Phase Transition 16mm ² to 35mm ²	All		SSJ4/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02714K	1.8 Litres
Three Phase CNE 16mm ² to 35mm ²	All		SSJ5/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02712Q	3.4 Litres
Three Phase Transition 16mm ² to 35mm ²	All		SSJ6/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02715U	5.1 Litres

Service to Service Branch Joints

Single Phase CNE 4mm ² to 4mm ²	LPN & SPN		SBJ1/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	01731T	1.3 Litres
Single Phase CNE 16mm ² to 35mm ²	All		SBJ2/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02732H	1.3 Litres
Single Phase Transition 4mm ² to 4mm ²	LPN & SPN		SBJ3/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	01734X	5.1 Litres
Single Phase Transition 16mm ² to 35mm ²	All		SBJ4/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02735M	5.1 Litres
Single/Three Phase CNE 16mm ² to 35mm ²	All		SBJ5/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02733S*	3.4 Litres
Single/Three Phase Transition 16mm ² to 35mm ²	All		SBJ6/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02736W*	5.1 Litres

*These kits only contain a single phase connector for additional phase connections use Service Module (SSM1/EDFE) EDF Energy SAP Number: 02771H

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Mains Service Branch Joints

Waveform Mains Service Joint 70 to 185mm	All	Joint only contains only 1 phase connector	MSJ185W/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02741G	7.2 Litres
Waveform Mains Service Joint 240 to 300mm	All	Joint only contains only 1 phase connector	MSJ300W/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02742R	8.8 Litres
PILC Mains Service Joint 95 to 185mm (1 service)	All	Joint only contains only 1 phase connector	MSJ185S/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02743B	8.0 Litres
PILC Mains Service Joint 240 to 300mm (1 service)	All	Joint only contains only 1 phase connector	MSJ300S/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02744L	10.3 Litres
PILC Mains Service Joint 95 to 185mm (2 or 3 services)	All	Joint only contains only 1 phase connector	MSJ185P/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02745V	11 Litres
PILC Mains Service Joint 240 to 300mm (2 or 3 services)	All	Joint only contains only 1 phase connector	MSJ300P/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02746F	16.5 Litres

Note: Each of the kits in the table above contains a single-phase connector. For additional phase connectors refer to the table below

Additional Connectors for use with Mains Service Branch Joint Kits

70 to 185mm ² Mains Service Connector Module	All	Contains 1 phase connector	MSM1/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02772S	N/A
240 to 300mm ² Mains Service Connector Module	All	Contains 1 phase connector	MSM2/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02773C	N/A
Double defered mains Service Module	All	Contains 1 phase connector for use with the above connectors	DSM2/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02769C	N/A

Service Pot End Joints

Single Phase CNE 4mm ² to 35mm ²	All	Heatshrink Joint does not require resin	SE1/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02790Q	N/A
Single Phase PILC 4mm ² to 35mm ²	All	Heatshrink Joint does not require resin	SE2/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02793U	N/A
Three Phase CNE 16mm ² to 35mm ²	All	Heatshrink Joint does not require resin	SE3/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02791A	N/A
Three Phase PILC 16mm ² to 35mm ²	All	Heatshrink Joint does not require resin	SE4/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02794E	N/A

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Mains Straight Joints

Waveform to Waveform 35 to 95mm ²	All		SMJ95W/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02721P	8.4 Litres
Waveform to Waveform 120 to 185mm ²	All		SMJ185W/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02722Y	11.7 Litres
Waveform to Waveform 240 to 300mm ²	All		SMJ300W/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02723J	14.8 Litres
Waveform to PILC Transition 35 to 95mm ²	All		SMJ95T/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02726N	9.2 Litres
Waveform to PILC Transition 120 to 185mm ²	All		SMJ185T/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02727X	12.8 Litres
Waveform to PILC Transition 240 to 300mm ²	All		SMJ300T/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02728H	18.0 Litres

Note: To include a service in any of the above joints refer to the table below:

Service Connectors for use with Mains Straight Joint Kits

95mm ² Straight Connector Service Module	All	Contains 1 phase connector	SMJ1SM/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02778B	N/A
185mm ² Straight Connector Service Module	All	Contains 1 phase connector	SMJ2SM/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02779L	N/A
300mm ² Straight Connector Service Module	All	Contains 1 phase connector	SMJ3SM/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02780G	N/A

Mains Branch Joints

Waveform to Waveform 70 to 95mm ²	All		BMJ95W/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02750F	9.2 Litres
Waveform to Waveform 120 to 185mm ²	All		BMJ185W/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02751Q	16.7 Litres
Waveform to Waveform 240 to 300mm ²	All		BMJ300W/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02752A	22.8 Litres
Waveform to PILC Transition 35 to 95mm ²	All		BMJ95T/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02756P	10.5 Litres
Waveform to PILC Transition 120 to 185mm ²	All		BMJ185T/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02757Y	20.2 Litres
Waveform to PILC Transition 240 to 300mm ²	All		BMJ300T/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02758J	31.8 Litres

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Mains Pot End Joints

Waveform to Waveform 70 to 120mm ²	All	Heatshrink Joint does not require resin	SE5/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02795P	N/A
Waveform to Waveform 120 to 185mm ²	All	Heatshrink Joint does not require resin	SE6/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02796Y	N/A
Waveform to Waveform 240 to 300mm ²	All	Heatshrink Joint does not require resin	SE7/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02797J	N/A
Waveform to PILC Transition 35 to 95mm ²	All	Heatshrink Joint does not require resin	SE8/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02798T	N/A

Mains Pole Termination Kits

Waveform 70 to 95mm ² - Direct Connection to O/H Line	EPN & SPN	Heatshrink Termination	WPT1/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02805T	N/A
Waveform 120 to 185mm ² - Direct Connection to O/H Line	EPN & SPN	Heatshrink Termination	WPT2/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02806D	N/A
70-95mm ² Waveform Pole Termination (PC400)	EPN & SPN	Heatshrink Termination	WPT3/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02807N	N/A
185mm ² Waveform Pole Termination (PC400)	EPN & SPN	Heatshrink Termination	WPT4/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02808X	N/A

Additional Materials and Specialist Tools

35mm ² Green & Yellow Earth Wire	All		6491X	Capital Cables	05507D	N/A
50mm ² Green & Yellow Earth Wire	All		6491X	North West Cables Ltd	05866T	N/A
Insulated Connector Holding Tool	All	Tool used to hold mains straight joint connectors	Universal Connector Holding Tool	Insulated Tools Ltd.	32046H	N/A
IIPC Holding Tool	All	Tool used to hold mains & service IIPC connectors	KJ17	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	31047N	N/A
Insulated 13/17mm Ratchet Spanner	All	Reversible insulated ratchet tool	RM 1317	Clydesdale Ltd	31045T	N/A
Single-Phase 100A PILC Cable Consumer Earth Bond	All	For providing an earth connection off of a lead sheathed cable	CE1/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	01761E	N/A
Three-Phase 100A PILC Cable Consumer Earth Bond	All	For providing an earth connection off of a lead sheathed cable	CE2/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	01762E	N/A
95 mm PILC Mechanical Earth Bond Kit	All	For providing an earth connection off of a lead sheathed cable	ME95/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshires HD9 3TN	02775W	N/A
				Sicame Electrical Developments Ltd Riverholme		

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185 mm PILC Mechanical Earth Bond Kit	All	For providing an earth connection off of a lead sheathed cable	ME185/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02776G	N/A
95 mm PILC Mechanical Earth Bond Kit	All	For providing an earth connection off of a lead sheathed cable	ME300/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02777R	N/A
95 mm UM Connector Replacement Patch Kit	All	Set of Replacment CR Sheet Patches	CRP1	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02840E	N/A
185 mm UM Connector Replacement Patch Kit	All	Set of Replacment CR Sheet Patches	CRP2	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02841P	N/A
300 mm UM Connector Replacement Patch Kit	All	Set of Replacment CR Sheet Patches	CRP3	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02842Y	N/A
US Connector Replacement Patch Kit	All	Set of Replacment CR Sheet Patches	CRP4	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02843J	N/A
95 mm Waveform 4 finger Breakout	All	Used to seal Waveform Cable Crutches	SKE 4F/3+4	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02333M	N/A
185 & 300 mm Waveform 4 finger Breakout	All	Used to seal Waveform Cable Crutches	SKE 4F/5	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02334W	N/A
95 mm LVM1 Composite Connector + CR Sheet Patch	All	Extra Length LVM Connector for use within combined Straight/Branch Joints	LVM1/C/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02811N	N/A
185 mm LVM2 Composite Connector + CR Sheet Patch	All	Extra Length LVM Connector for use within combined Straight/Branch Joints	LVM2/C/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02812X	N/A
300 mm LVM2 Composite Connector + CR Sheet Patch	All	Extra Length LVM Connector for use within combined Straight/Branch Joints	LVM3/C/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02813H	N/A
95 mm LVM1 Connector + Dip Moulded Shroud	All	Loose LVM Connector and Dip Moulded Shroud	LVM1/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02821W	N/A
185 mm LVM1 Connector + Dip Moulded Shroud	All	Extra Length LVM Connector for use within combined Straight/Branch Joints	LVM2/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02822G	N/A
300 mm LVM1 Connector + Dip Moulded Shroud	All	Extra Length LVM Connector for use within combined Straight/Branch Joints	LVM3/EDFE	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02823R	N/A
NE13 Waveform Neutral Connector	All	Loose Waveform Neutral Connector	NE13	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02829A	N/A
25 metre Roll of 19mm Clear Heatshrink Tube	All	Used to protect paper insulation within joints	SFTW-202 19.0mm	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02325X	N/A
25 metre Roll of 38mm Clear Heatshrink Tube	All	Used to protect paper insulation within joints	SFTW-202 38.0mm	Sicame Electrical Developments Ltd Riverholme Works Huddersfield Road Holmfirth West Yorkshire HD9 3TN	02326H	N/A



Polyurethane Resin

The materials and equipment listed below detail the current units approved for the EDF Energy Network.

Description/Application	Network Approved	Comments	Manufacturer's Model/type reference or Drawing number	Approved supplier	SAP Number
3 Part Polyurethane Resin for use in LV, 11kV and 33kV Joints					
1.8 Litre Kit	All		R3TFS180	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	04001C
3.2 Litre Kit	All		R3TFS320	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	04002M
5.0 Litre Kit	All		R3TFS500	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	04003W
6.5 Litre Kit	All		R3TFS650	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	04004G
8.0 Litre Kit	All		R3TFS800	Prysmian Cables & Systems Limited, Components Units' PO Box 4, Hall Lane, Prescot, Merseyside, L34 5UR	04006B

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