

ELECTRICAL FIRST-FIX WIRING

Cable pulling and installation · sub-mains · final circuits · fire-rated cabling

ACTIVITY RAMS — ADAPT TO SITE BEFORE USE

KD-RAMS-EL-002 Rev A0

Statutory basis: Electricity at Work Regulations 1989 regs 4(3), 12, 13, 14 and 16, with HSE guidance HSG85 (3rd edition, 2013) and HSR25 (3rd edition, 2015). Test instruments and leads to GS38 (4th edition, 2015). Site distribution assemblies to BS EN 61439-4:2013. Installations designed, installed and verified to BS 7671:2018+A4:2026 — Amendment 4 was published on 15 April 2026 and the previous amendment is withdrawn on or about 15 October 2026, so confirm which amendment the design was issued against. COSHH 2002 applies to the dusts, resins and fumes generated by the containment and fixing work. This document is the recorded safe system of work required by HSWA 1974 s.2(2)(a) and MHSWR 1999 regs 3 and 5.

1 DOCUMENT AND PROJECT IDENTIFICATION

RAMS REFERENCE	PROJECT / SITE REF	SITE NAME AND ADDRESS	DATE PREPARED	NEXT REVIEW DATE
CLIENT / PRINCIPAL CONTRACTOR	PLANNED START	DURATION	OPERATIVES	SUPERVISING THE WORK

2 SCOPE OF WORKS

Installation of cables — sub-mains, final circuits and fire-rated systems — into containment, voids, studwork and chases, including drum handling, pulling, dressing, clipping and identification, before connection to any equipment.

This document does not cover: terminations into live or previously energised equipment (KD-RAMS-EL-004), and testing (KD-RAMS-EL-005).

SITE-SPECIFIC SCOPE, LOCATIONS AND LIMITATIONS

3 RISK ASSESSMENT — SCORE EACH RISK FOR THIS SITE, THEN ADD WHAT IS MISSING

The hazards and controls below are the starting point for this activity, written by a working main contractor. They are not complete for your site until a competent person has scored each risk, added the site-specific hazards, and struck out anything that does not apply. Rate risks High / Medium / Low before and after controls.

1. Manual handling of containment, cable drums, boards and fittings

At risk: Operatives

Controls: Mechanical aids first — trolleys, drum jacks, hoists. Two-person lifts for tray runs, boards and drums; order materials in manageable lengths; keep carrying routes clear and lit.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

2. Work at height from steps, podiums, towers or MEWPs

At risk: Operatives, and anyone below

Controls: Select access by the Work at Height hierarchy — podium or tower before steps; MEWPs operated by trained (IPAF) operators only. Inspect access equipment before use, establish an exclusion below overhead work, and secure tools against dropping.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

3. Striking hidden services when drilling, chasing or fixing

At risk: Operatives

Controls: Check drawings and the services register, scan with a CAT before drilling or chasing, respect BS 7671 safe zones, use battery tools where practicable, and stop and reassess if an unrecorded service is found.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

4. Disturbing asbestos-containing materials in existing buildings

At risk: Operatives, building occupants

Controls: Check the asbestos register before any intrusive work (CAR 2012). No register, or unclear entries, means stop and refer. If suspect material is found: STOP, withdraw, secure the area and report it — the discovery procedure applies before any further work.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

5. Cuts from sharp edges of tray, basket and trunking

At risk: Operatives

Controls: De-burr cut edges as they are cut, fit end caps, wear cut-resistant gloves (EN 388) for handling, and clear offcuts as the work proceeds.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

6. Slips, trips and trailing leads

At risk: Everyone in the work area

Controls: Route 110V leads at high level or under mats, keep the work area clear, remove waste as it is created, and maintain task lighting.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

7. Cable pulling strains and pinch points

At risk: Operatives

Controls: Plan pulls with adequate operatives or winches for the run length and weight; communicate along the run; gloves for grip; never wrap a pulling rope around a hand or body.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

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Site-specific hazards not listed above — every site has at least one:

HAZARD	WHO IS AT RISK	CONTROLS	INITIAL H/...	RESIDUAL...	ACTION OWNER	BY WHEN

4 METHOD — SEQUENCE OF WORK

- 01 Confirm circuit schedules, cable types and routes against the drawings; check drum schedules match the design.
- 02 Position drums on jacks at the pulling end; protect floor finishes and agree drum storage with the site.
- 03 Check voids and chases against the asbestos register before entry or cutting into existing fabric.
- 04 Set up access along the route; agree exclusion below overhead pulling positions.
- 05 Pull cables progressively without exceeding bending radii; station operatives at changes of direction; use cable socks and rollers on long runs.
- 06 Dress, clip and support cables to BS 7671 spacings; maintain segregation between power, data and fire-rated systems.
- 07 Identify every cable at both ends and at intervals per the specification.
- 08 Seal and fire-stop penetrations as runs are completed; record the fire-stopping.
- 09 Leave tails safe, insulated and labelled — nothing is connected under this document.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE

5 PLANT, EQUIPMENT AND MATERIALS

- Cable drum jacks and rollers
- Cable winch (long pulls)
- Podium steps / tower
- 110V or battery tools
- Cable socks and pulling grips

INSPECTION / THOROUGH EXAMINATION REFS

COSHH ASSESSMENT REFS

6 PPE — THE LAST LINE OF CONTROL, NOT THE FIRST

- Head protection
- Safety footwear
- High visibility
- Gloves — task-rated
- Eye protection
- Hearing protection
- Arc-rated PPE where assessed

RPE TYPE, FACE-FIT STATUS, AND ANY OTHER PPE REQUIRED

7 PERMITS REQUIRED BEFORE THIS WORK STARTS

No permit is normally required for this activity. The site's own rules may still require one — check before starting, and record any permit issued below.

PERMITS ISSUED FOR THIS WORK (OR NONE)

8 EMERGENCY ARRANGEMENTS — COMPLETE FOR THIS SITE

FIRST AIDER AND LOCATION	NEAREST A&E	ASSEMBLY POINT
HOW THE ALARM IS RAISED	EMERGENCY ACCESS FOR THIS WORK AREA	SPILL / ENVIRONMENTAL RESPONSE

9 BRIEFING RECORD — EVERYONE WORKING UNDER THIS RAMS SIGNS BEFORE STARTING

By signing you confirm the contents of this RAMS have been explained to you, you understand the hazards and controls, and you will work to the sequence stated. Tell the supervisor if the work or the site does not match this document — work stops until it does.

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NAME	COMPANY	SIGNATURE	DATE

10 PREPARED AND ACCEPTED

Prepared / adapted for this site by — I confirm I have adapted this document to the site, scored the risks, and that it describes how the work will actually be done.

PRINTED NAME	ROLE / COMPETENCE	COMPANY	SIGNATURE	DATE	TIME

Accepted for the site by — principal contractor or site manager review.

PRINTED NAME	ROLE	COMPANY	SIGNATURE	DATE	TIME

Review this RAMS if the work, the site or the law changes, and at least before each new phase of the works. Flatten the completed PDF before filing so the record cannot be silently edited.

R REVISION HISTORY

Every revision of this document, and every review that found nothing to change. The revision on the front of this sheet is the one you are holding — check kubitdocs.com for the current one before use.

Rev	Date	Class	What changed	Authorised by
D0	2026-08-09	first-issue	First issue.	— not yet approved —
D1	2026-08-10	material	BS 7671 dated to BS 7671:2018+A4:2026 (Amendment 4 published 15 April 2026), with a note to confirm which amendment the design was issued against; BS 5839-1 dated to the 2025 edition; BS EN 61439-4 dated to 2013; HSG85, GS38 and HSG141 cited with their editions; COSHH 2002 added to the legal basis. Legislation position reviewed against Product Legislation Register KD-REG-01 Rev R01.3 and the August 2026 horizon scan; cutoff moved to 10 August 2026.	— not yet approved —
D2	2026-08-11	material	Statutory basis extended to name HSE HSG33 (5th edition, 2020) for roof-mounted PV work, following the addition of the solar PV document. It now appears on the printed legal note.	— not yet approved —
D3	2026-08-11	editorial	Printed legal note corrected. Two sentences that applied to only one document in the electrical set were being printed on all of them: fire detection and alarm cabling to BS 5839-1:2025, which is KD-RAMS-EL-007 alone, and roof-mounted PV under HSG33, which is KD-RAMS-EL-010 alone. Both now print only on the document they govern. No control, field, scope or applicable instrument changed on this document.	— not yet approved —
A0	2026-08-27	review	Approved for issue by the author. Content unchanged from D3; the draft status strip is removed. No independent third-party review has been carried out.	Author — director, UK principal contractor, SMSTS. Not an independent review.

Class: first-issue · material (the law, a control, a field or the scope changed — past buyers are notified) · editorial (wording or layout only) · review (checked, nothing changed) · withdrawal. Revision prefix D = draft, not approved and not for sale; A = approved for issue by the person named, on the date shown.