

6A

AT THE CRIME SCENE

Ideas in priority order following Delphic Analysis

Priority Ranking	Original Number	IDEA
1	14	Introduce a mid cable expanding bung which activates when the cable is cut and does not allow cable to be withdrawn from underground pipeways (expanding pig/bung)
2	6	Introduce a "foam bomb" which fills the cavity when a manhole or cover is opened without authorisation. This might include a siren going off as well
3	16	Introduce a low cost alarm on each cable run reporting to a national address server to monitor signature recognition change when the cable is tampered with
Joint		
3	1	Why Copper? – why not wireless at least for signalling?
5	3	Use a Smart material sheath which reacts aggressively on being cut
6	4	Introduce Dopant trace elements to the copper to clearly identify its origin (i.e. similar activity to platinum materials).
7	9	Introduce a tracker system into the cable sheath or strap this tracker to the outside of the bundle
8	17	Create a chemical clamp around existing material when broken this creates a chemical change to the cable material.
9	18	Introduce a poison to the Copper bundle – if this is not removed and melted or burnt then it reduces the value of the base copper
10	10	Change the colour of the cable sheath for ease of identification, or change a colour of a wire set to identify a particular owner for cable

LIST 6B

BEYOND THE CRIME SCENE

Ideas in priority order following Delphic Analysis

Priority Ranking	Original Number	IDEA
1	25	Control the market for reprocessing by: <ul style="list-style-type: none"> • Licensing of dealers for copper cable • Only accept sheathed cable • Only possible to remove sheath with special reprocessing equipment • Remove cash payment – credit card payment / bank only
2	23	Make it only possible for licensed dealers to remove the sheathing and accept material for recycling only with sheath intact <ol style="list-style-type: none"> a) Create a mechanical or chemical blocker to make it hard to remove sheath b) Introduce microfibres into the sheath to make it hard to remove c) Introduce a smart powder which makes it messy to remove sheath
3	21	Use of a GPS tracker on cables installed in targeted, sensitive areas
4	27	Make the security of metal theft the responsibility of the prime contractor for new installation work
5	19	Provide high levels of traceability to the cable bundles by: <ol style="list-style-type: none"> a) Tracker in the sheath b) Unique sheath material easily identified both visually/chemically c) Unique coating on the surface of the copper d) Unique alloying of the copper