

Case Study**CAPRIS 50-100 Bench-top Laser Wire Marker v's Heat Shrink Sleeve
Direct Laser Marking Cost Benefits****A. Solution using Heat Shrink Sleeve**

The following operations take place when identifying a wire or cable using heat shrink sleeves:

a) Identifying wire or cable with one sleeve at each end:

Sleeve marking time including preparation time, including:

Initial set up and handling

Sleeve shrinking time

Sleeve inspection time

Total **2 minutes 30 seconds to prepare 2 identical sleeves**

Labour cost (assume charge €33/hour) €1.40

Material costs: €0.66 each €1.33

Total cost to identify wire/cable: **€ 2.73**

b) Identifying wire or cable with multiple sleeves at regular intervals:

To meet full military requirements it is generally the case that cables must be identified at regular intervals rather than just at the ends. Costs for sleeving will be approximately pro rata case "a" above.

Example: to identify a 3m length multi-core cable with sleeving positioned at 150mm intervals (15 sleeves required) **Cost: €40.87**

NOTE: Labour and materials costs for sleeving should be adjusted to reflect customer's actual situation.

B. Laser Wire Marking:

- **No** additional preparation and handling required, as marking is incidental to measuring and cutting wire or cable.
- **No** Material cost
- **No** Waste material

Operating cost for processing 3m wire or cable with marking at wire ends only or at 75mm intervals continuously: **€0.08**

- No day-to-day consumables.
- Costs associated with preventative maintenance (flash lamps and filters etc.) are approximately €0.29 per hour

SUMMARY: Saving by laser marking compared to each sleeve:

€1.36