

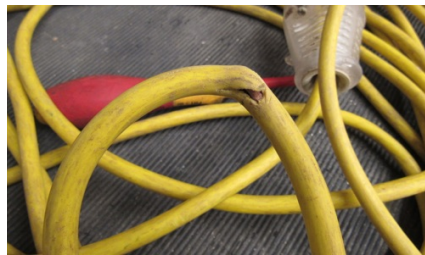


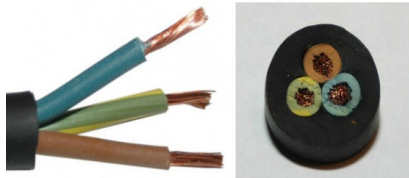


# Technical Bulletin No: 41-2019



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|---|--|---|
| <b>Title:</b>   | <b>Power Cable Inspection</b>  |   |
| <b>Priority</b>   | Red – Major Non-Conformance  |   |
| <b>Legislation:</b>   | PUWER / Electricity at Work Regulations / HSE Guidance Note HSG107 / HAE CoP   |   |
| <b>Brief Description:</b>   | Power cable damage and suitability is the most common issue raised on product review during SafeHire audits – this bulletin provides guidance on what is acceptable  |   |
| <b>Equipment Affected:</b>  | All electrical hire fleet and work equipment   |   |
| <p>The most common issue identified during SafeHire audits is damage to power cables or cables that are unsuitable for the task</p> <ul style="list-style-type: none"> <li>As per all work equipment, cable should be suitable for the task and the environment it will be used in, this includes the length, classification, condition and structure</li> <li>Cable should be free of wear, damage and heavy abrasions, cable may have some scuffing but this should not affect the cables diameter / insulation thickness</li> <li>Cable length should be suitable for the job, HAE / EHA Records include a box to record cable length, this is helpful when recorded from new</li> <li>Where cable is replaced, it should be with cable of an equal or better specification than that used by the manufacturer / original cable e.g. if its H05 from new, H05 or H07 should be used</li> </ul> |  |   |
| <b>1 – Cable Damaged</b><br>Obvious damage to cable sheath  | <b>2 – Cable Worn - Sanding</b><br>Insulation Thickness Affected / Poor Repair – Heat-shrink Non-Standard Cable used – should be as per new machine  | <b>3 – Cable Cut – Door Trapping</b><br>Very common extension lead damage, snagged or trapped in door during use / full extension lead length should be checked |
|    |    |    |
| <b>4 – Cable Damaged</b><br>As per image 3, reels can hide damage and cable needs cleaning / inspecting   | <b>5 – Cable Damaged</b><br>Obvious wear to extension cable  | <b>6 – Cable Profile</b><br>Thickness of insulation is critical for cable performance – wear to sheath will affect its performance                              |
|    |   |    |
| <b>Recommended Actions:</b>   | <ul style="list-style-type: none"> <li>Review hire fleet and work equipment as per this bulletin and related HAE Technical Bulletins including Bulletin 1, 8, 19 and 30</li> <li>All cables should be fully inspected every hire for hire fleet equipment. Cables should be pre-use checked for work equipment by the end user</li> <li>Ensure power supply is isolated / plug disconnected before cables are inspected</li> </ul> |   |
| <b>Circulation:</b>   | Management / Workshop Teams  |   |

|                 |                        |                         |         |                       |          |
|-----------------|------------------------|-------------------------|---------|-----------------------|----------|
| <b>Title:</b>   | Power Cable Inspection | <b>Bulletin Number:</b> | 41-2019 | <b>Creation Date:</b> | 14/04/19 |
| <b>Authors:</b> | TfH Ltd                | <b>Reviewed by:</b>     |         | <b>Revision:</b>      | V1.2     |