**Analysis for common cable lengths ISO7638 in standard trucks and trailers**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Maximal length acc. to ISO11992 | Tractor | Helix cable |  |  | Trailer |  | Total tractor | Total trailer |  |
| Manual mode | 15 | 7 |  |  | 18 |  | 22 | 18 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  | **Additional installations for ACV** | |  |  |  |  |  |
| Standard semi-trailer combination | Tractor | Helix cable | ACV line tractor | ACV line semi | Semitrailer |  | Total Tractor | Total semi |  |
| ACV mode | 7,5 | 6 | 6 | 6 | 13 |  | 19,5 | 19 | <-- trailer cable length exceeds values for manual connection in ISO11992 |
| Manual mode | 7,5 | 6 | 0 | 0 | 13 |  | 13,5 | 13 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Standard drawbar-trailer combination | Tractor | ACV line tractor | ACV line  drawbar trailer | Helix cable | Drawbar trailer |  | Total Tractor | Total drawbar trailer |  |
| ACV mode | 14 | 1 | 1 | 0 | 14 |  | 15 | 15 |  |
| Manual mode | 14 | 0 | 0 | 0 | 14 |  | 14 | 14 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Proposal (in addition to R13, deviating from ISO11992)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |
| Maximal length acc. to ECE R13 |  |  |  |  |  |  | Total tractor | Total trailer |  |
| ACV mode |  |  |  |  |  |  | 20 | 20 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | All lengths in meter | |  |