

TABLE 3: Comparison of SPE 1000BASE-T1 with Profibus DP

| Comparison | Profibus DP | SPE 1000BASE-T1 | SPE 1000BASE-T1 | SPE Advantage or Disadvantage |
|-----------------------------|--------------------------|--------------------------|--------------------------|-------------------------------|
| | Drag Chain Design | Drag Chain Design | Drag Chain Design | |
| Cross Section | AWG 23/19 | AWG 26/19 | AWG 22/19 | |
| Data Rate | 12 Mbit | 1 Gbit | | 83x more data rate |
| Cable Diameter | 8,0 mm | 4,9 mm | 6,3 mm | 21-38% reduced space |
| Max. Distance | 100 m* | 40 m | | disadvantage in length |
| Power | no(hybrid) | PoDL up to 50 W | | power included |
| Cable Weight | ~ 77 kg/km | ~ 29 kg/km | ~ 50 kg/km | 35-60% reduced weight |
| Copper Fig. | 25 kg/km | 16 kg/km | 24 kg/km | 4-36 % reduced copper |
| Bending Radius Chain | 96 mm | 59 mm | 76 mm | 20-39% red. bending radius |

*with high speed 12 Mbit