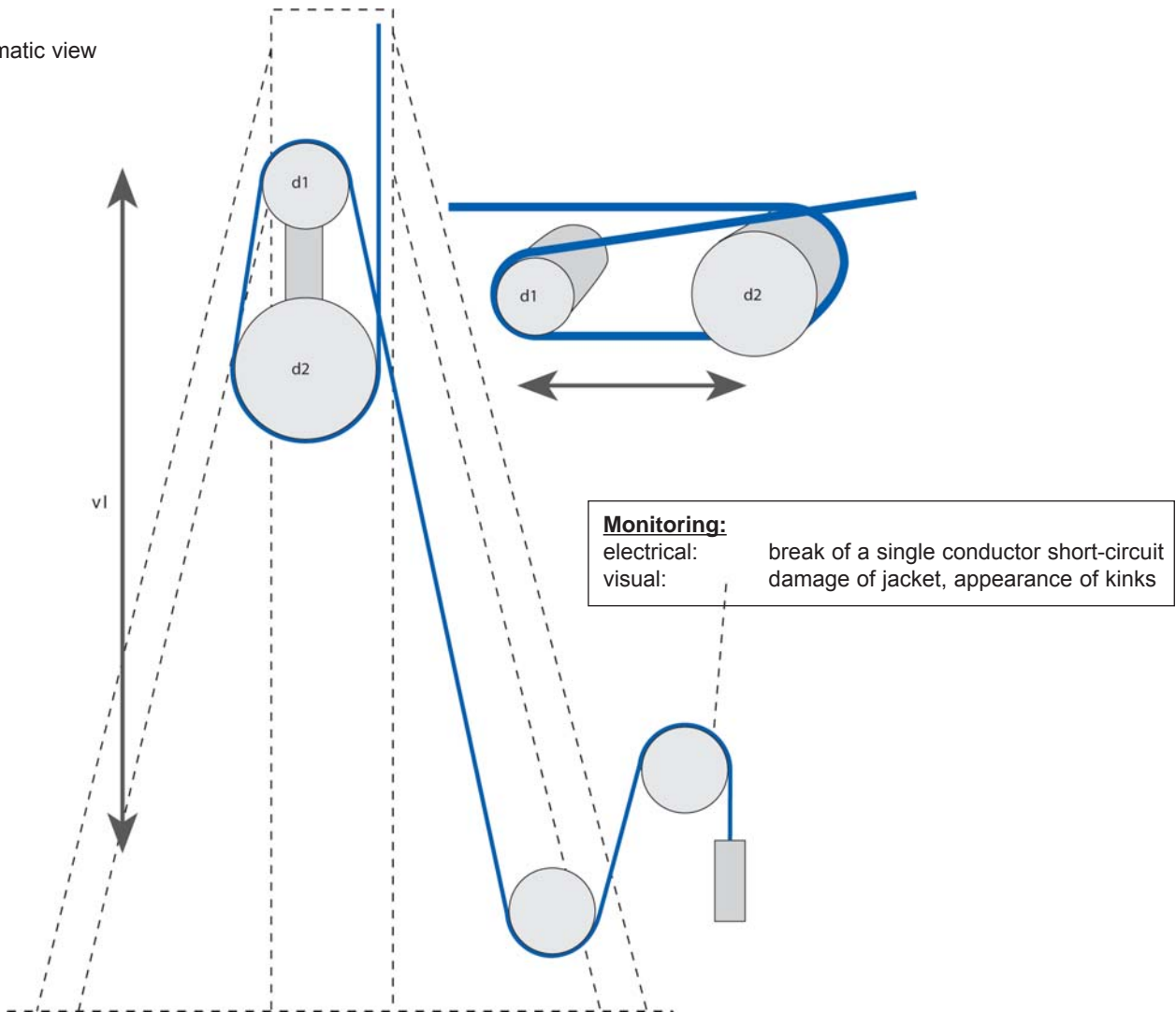


DIRECTIONAL CYCLE LIFE TEST FOR CONTINUOUS FLEX CABLES

schematic view



| | | | | |
|------------------------|-------------------------|--------------------------------------------------|-------------------|----------|
| Test parameter: | Acceleration: | 40 m/s ² · 131.23 feet/s ² | Bending radius: | variable |
| | Travel v1: | 1900 mm/39.37 inches | Load: | variable |
| | Cable length in motion: | 2700 mm/106.30 inches | Roll diameter d1: | variable |
| | Speed: | 1.4 m/s · 4.59 feet/s | Roll diameter d2: | variable |
| | No. of bendings: | 18 per min | | |

| Test findings | S 200 (12 x 1.0 mm ²) | S 90 (12 x 1.0 mm ²) | S 86 (12 x 1.0 mm ²) |
|-----------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| bending radius during test: | 4.3 x O.D. | 3.6 x O.D. | 3.5 x O.D. |
| Travel: | 1.9 m · 6.23 feet | 1.9 m · 6.23 feet | 1.9 m · 6.23 feet |
| Acceleration: | 40 m/s ² · 131.23 feet/s ² | 40 m/s ² · 131.23 feet/s ² | 40 m/s ² · 131.23 feet/s ² |
| Temperature during test: | +10°C up to +22°C | +10°C up to +22°C | +10°C up to +22°C |
| Speed: | 1.4 m/s · 4.59 feet/s | 1.4 m/s · 4.59 feet/s | 1.4 m/s · 4.59 feet/s |
| Dimension: | 10.4 mm · 0.41 inches | 12.5 mm · 0.49 inches | 12.9 mm · 0.51 inches |
| Roll diameter d1: | 90 mm · 0.295 feet | 90 mm · 0.295 feet | 90 mm · 0.295 feet |
| Roll diameter d2: | 125 mm · 0.41 feet | 125 mm · 0.41 feet | 125 mm · 0.41 feet |
| No. of bendings: | 17.438.485 | 2.929.730 | 2.508.904 |