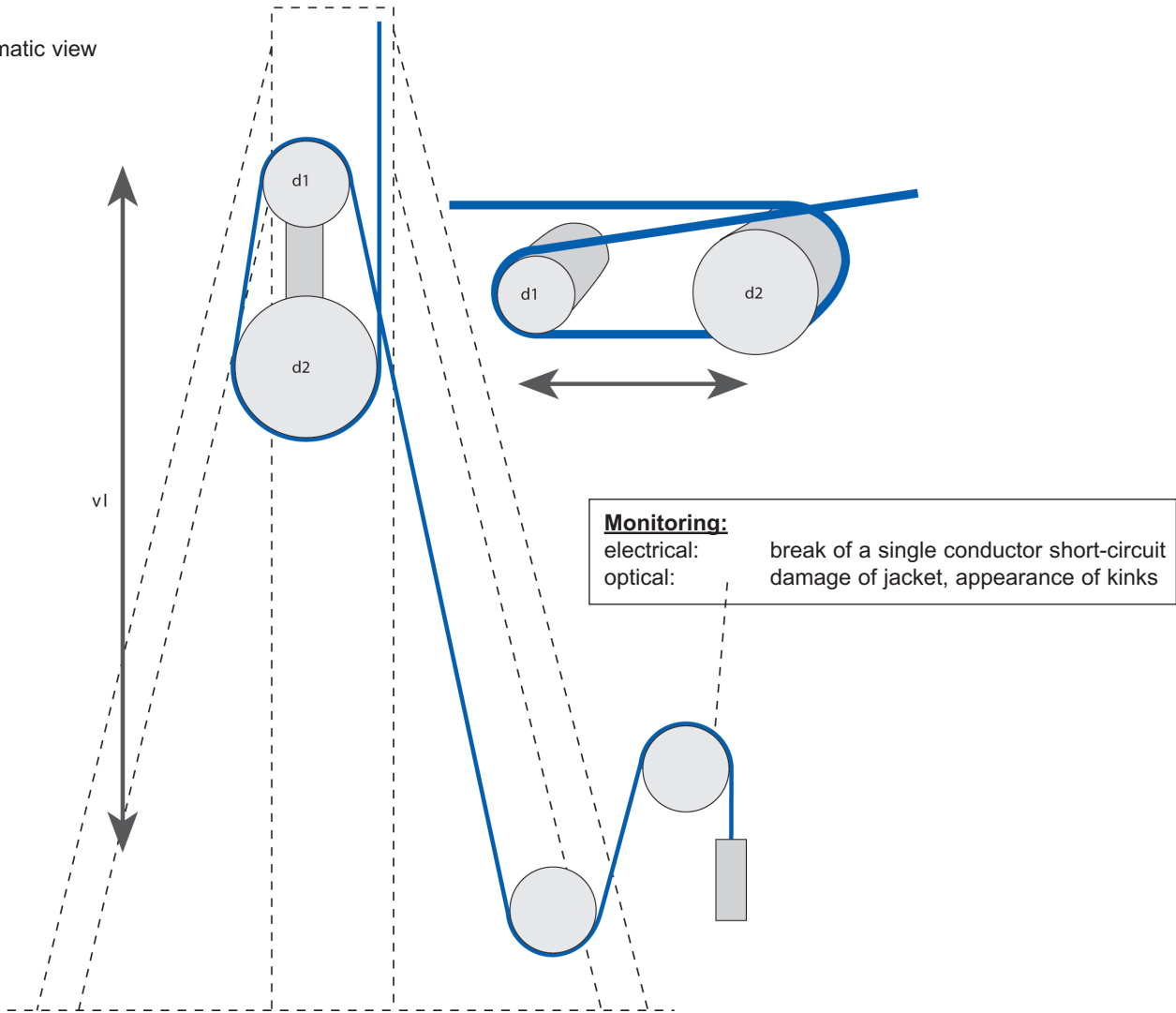


# DIRECTIONAL CYCLE LIFE TEST

schematic view



<b>Test parameter:</b>	Acceleration:	40 m/s <sup>2</sup> · 131.23 feet/s <sup>2</sup>	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 <sup>2</sup> )	S 90 (12 x 1.0 mm <sup>2</sup> )	S 86 (12 x 1.0 mm <sup>2</sup> )
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 <sup>2</sup> · 131.23 feet/s <sup>2</sup>	40 m/s <sup>2</sup> · 131.23 feet/s <sup>2</sup>	40 m/s <sup>2</sup> · 131.23 feet/s <sup>2</sup>
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:	<b>17.438.485</b>	<b>2.929.730</b>	<b>2.508.904</b>