

TECHNICAL PRODUCT SPECIFICATION

Precision Segmented Flex-Shaft & End Connector System

Manufacturer:	ESS KAY ENGINEERS	Report Date:	July 1, 2026
Component:	Flexible Corrugated Drive Shaft & Concentric End Core	Document Ref:	EKE-FS-2026-12F

1. Multi-View Orthographic & End-Face Projections

The engineering layout below represents four dedicated verification perspectives including an isometric overview (FRONT VIEW), horizontal geometric tracking alignments (SIDE VIEW, TOP VIEW), and a high-magnification concentric cross-sectional analysis (END-FACE DETAIL).



2. Architectural Parameters & Feature Breakdown

Design Profile Specifications

- **Continuous Ring Bellows/Coil Profile:** Segmented outer ribs engineered to provide maximum high-flex dynamic bend radius along the longitudinal axis without diminishing inner core integrity.
- **Machined End Collars:** Rigid solid-metal step-down mounting connectors on both terminals optimized for tool chuck clamping or standard rotational collet seating.
- **Hollow Core Fluid/Guide Pass-Through:** Precision-bored interior concentric canal (visible under the End-Face Detail) allows for routing internal cabling, fiber optics, or liquid coolants/lubricants.
- **Quality Assurance Certification:** Fabricated and inspected under strict industrial standards by ESS KAY ENGINEERS to certify run-out tolerances and surface uniform micro-finish.