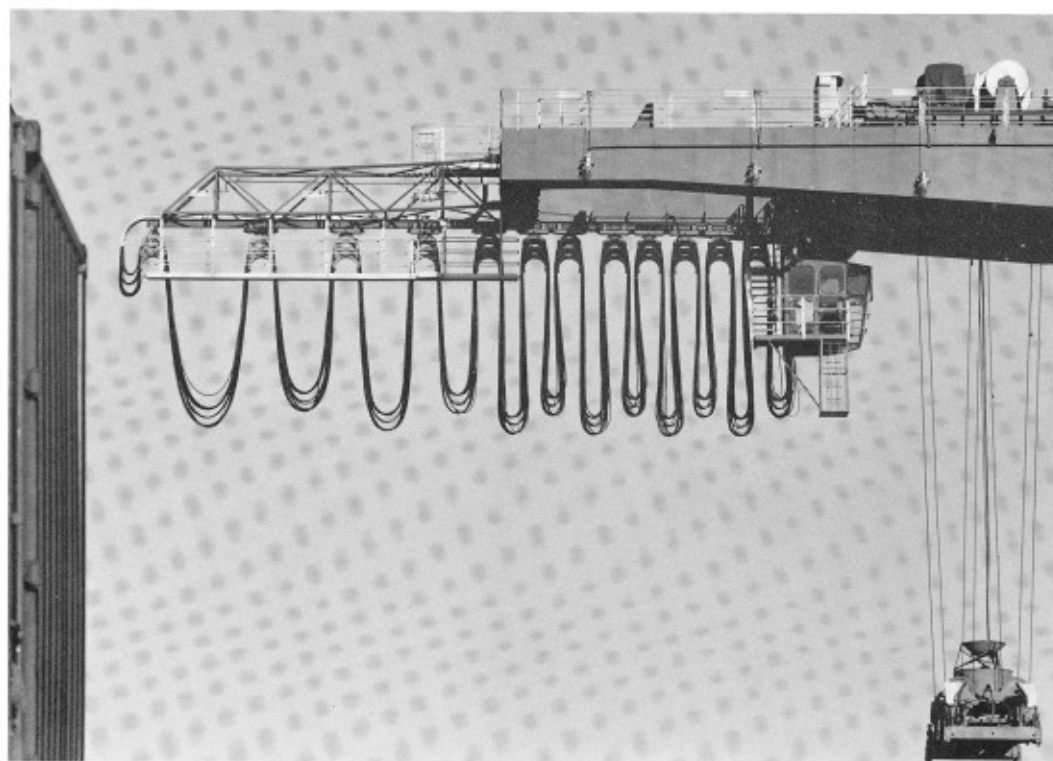
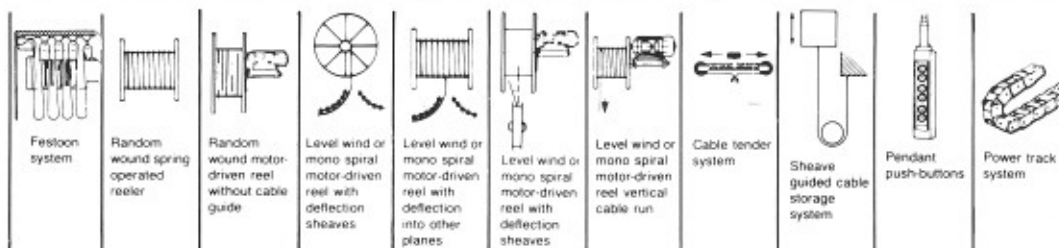


OPTOFLEX® Flexible Fiber-Optic Cable

Flexible Fiber-optic Portable Reel and Festoon cable,
ETFE Inner Jacket, KEVLAR® Reinforced Neoprene Outer Jacket

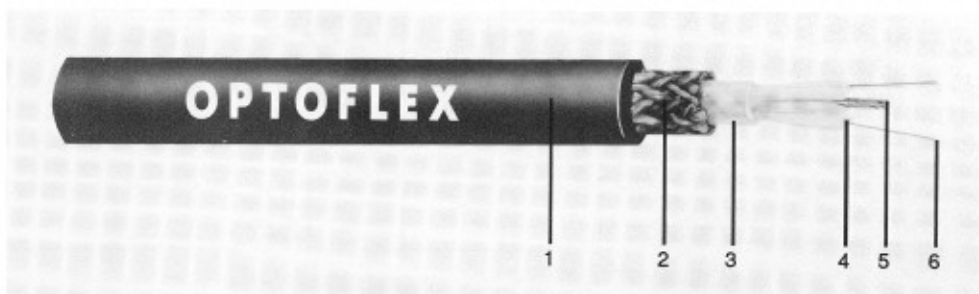


2

Application	OPTOFLEX® cable eliminates the need for conventional copper shielded conductors by providing the benefits of optical data transmission in a flexible cable. Designed to be used as a communications and control link between stationary and mobile equipment,	OPTOFLEX® is engineered to handle the dynamic forces encountered in constant flexing environments. Applications include festoon systems, reels, tenders and power tracks on equipment such as container cranes, shiploaders and ship unloaders.
Advantages	<ul style="list-style-type: none">• Elimination of multiple copper control cables.• Reduced trolley system weight decreases size and cost of trolley system hardware.• Immune to EMI from adjacent power cables.• Low temperature capability.	
Design	Six optical fibers are layed up with a short length of lay in loose buffer tubes for mechanical protection. Silicone fluid fills the buffer tubes for additional protection. The buffer tubes are also layed up with a short length of lay around a fiberglass composite central strength member for high flexibility. The optical fiber assembly is jacketed with a highly deformation resis-	tant ETFE (Ethylene tetrafluoroethylene) compound over which a KEVLAR® reinforcing mesh is applied for extra torsion resistance. An outer jacket of low temperature resistant Neoprene is extruded overall. The jacket is highly resistant to oil, flame and most chemicals.
Temperature Ratings	<ul style="list-style-type: none">• Maximum permissible conductor temperature: 90°C• Minimum ambient temperature for optimum fully flexible operation: -35°C• Minimum permissible ambient temperature: -55°C	

OPTOFLEX®
Flexible Fiber Optic Cable

- 1 Lead cured neoprene outer jacket
- 2 Torsion resistant Kevlar® reinforcing braid
- 3 Clear ETFE deformation resistant fiber optic assembly jacket
- 4 ETFE loose buffer tube
- 5 Fiberglass composite central strength member
- 6 62.5/125 μm glass multimode optical fiber



OPTOFLEX® WITH Kevlar® BRAID

Anixter Part Number	# of Functional glass fibers	Nominal diameter of fiber core (μm)	Nominal diameter of fiber cladding (μm)	Nominal Overall Diameter		Cable lbs/1000 ft	Weight kg/km	Maximum Continuous Safe Reeling Tension	
				Inch	mm			lbs	newtons
4EC-40F-R	4	62.5	125	0.669	17	188	280	50	230
4EC-60F-R	6	62.5	125	0.669	17	188	280	50	230