

EL Series

Expanded Beam Contact



These innovative contacts use double alignment and protected lens technology to create a new connector system that provide significant advantages over traditional expanded beam connectors. The double alignment expands the optical area 1000's of times and aligns the optical beam to the mechanical axis of the contact. This unique system provides excellent return loss (>60dB), making the contact ideal for analog fiber applications like HD FLIR imaging, RF-over-fiber used in cell tower extensions and passive split analog cable transmission systems. The mechanical and optical components are potted to provide mechanical protection for easy insertion and thousands of cycles of trouble free service.



The contact can be easily inserted and removed from the rear of the connector using standard tool. The black epoxy potting compound provides protection for the contact so they are easy to configure. This allows copper and fiber contacts to be reconfigured at any time.



The standard form factor allows existing highly reliable and field proven connectors to be used to quickly configure an array of fiber or fiber and copper assemblies. Currently available for 38999 (short and long), ARINC 404, ARINC 600, and custom form factors can be developed quickly for your application.

 **Winchester**
Interconnect.

We Energize Innovation.

Specifications

Optical

Return loss

60dB min

Insertion loss (random mate)

1.0dB typ. size 12

1.2dB typ. size 16

Insertion loss achievable

0.7dB KINGS® factory assembled connector and cabled

Wavelength

Single Mode:1260-1600nm

Multimode: 810-940nm

Power handling

500mW typ. 1W, 5W versions available

Physical

Mating cycles optical contact only

2000 min, 5000 typical

Mating cycles with connector

See connector manufacturer ratings

Materials

Stainless steel, glass and epoxy

Part Numbering

7 2 0 3 S 3 2 F 2 8 0 1 -

720	EL EB Connector	5	38999 plug	T	Terminated for Splice	F28	SMF28 900u PVC Jacket	01	Standard 2m Pigtail	M	Mil standard M85049 strain relief
		3	38999 socket	L	Future use (LC ferrule)	F11		40	4 channel in size 17	C	Customer splice strain relief
		A	38999 Contact only	C	Cabled	F62	MM 62.5/125	22	2 optical 2 electrical sz 17		
		B	Arinc 404 Contact only			F50	MM 50/125	42	4 opt 2 elec size 17 shell		
				53	Size 12 socket for 38999			20	2 fiber size 17		
				55	Size 12 plug for 38999			01	2m with FC/APC connector		
				33	Size 16 socket for 38999						
				35	Size 16 plug for 38999						
				23	Future size for 38999						
				25	Future size for 38999						
				99	Special Contact						
				43	Size 16 socket for ARINC 404						
				45	Size 16 plug for ARINC 404						

Example:

720A-T55-F28-01 = EL Series Size 12 expanded beam plug contact with SM fiber for MIL-38999 Plug housing