

EUROLENS



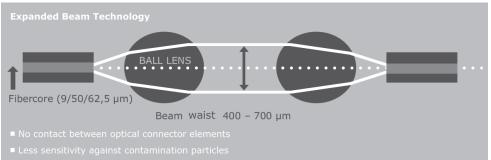
MIL-DTL-83526/20 & /21 Compatible Expanded Beam Fiber Optic Connector

EUROLENS is a MIL-DTL-83526/20 & /21 compatible expanded beam fiber optic connector for military and industrial applications.

Amphenol Precision Optics (APO) offers an expanded beam fiber optic connector for harsh environment connections. The screw thread and the optimal strain relief offer best connectivity even in adverse conditions like cold, heat, mud, dust or high pressure. Specifically for tactical military ground systems, oil & gas-, mining-, offshore- and broadcast applications.

EUROLENS is hermaphroditic, which facilitates the concatenation of multiple cable assemblies to support varying distance requirements. The connector is available in single mode and multi mode versions and can be configured to support two to twelve fiber optic channels using a common insert. It has been designed to accept a wide variety of cables to suit any application. The lens connector uses spherical lenses to expand the light beam diameter.

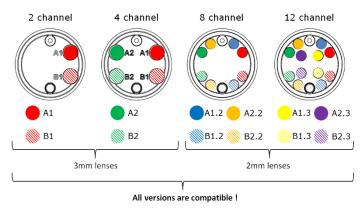
Expanded Beam Technology



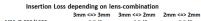
Expanded beam technology expands and collimates the optical signal through the connector interface path resulting in a diameter many times than the original beam. The optical beam is refocused into the core of the receiving fiber. This technology makes the connector very resistant to shock and environmental issues, minimizing the effects of dust and vibration. Because the lenses do not touch each other, the connector can be mated and demated for thousands of cycles.

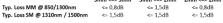
Amphenol Precision Optics GmbH | Zur Dornheck 32-34, 35764 Sinn, Germany Phone +49 2772 575 59-0 | sales@amphenol-po.de | www.amphenol-po.de @ Amphenol Precision Optics GmbH | subject to change without notice

Lens Arrangement



The EUROLENS system is the only expanded beam fiber optic connector system on the market where all 2 to 12 channel plugs and receptacles are fully compatible with each other.

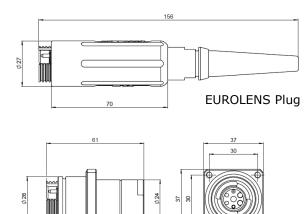




Technical Specifications

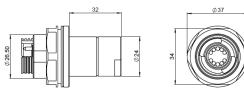
	Multimode	Singlemode					
Insertion Loss, typical	<0,8 dB @850/1300nm	<1.5 dB @1310nm/1550nm					
Return Loss (mated)	>31 dB	>31 dB					
Operating temperature	-55°C to +85°C						
Storage temperature	-55°C to +85°C						
Mating cycles	3,000 cycles						
Strain relief	1,500 N						
Immersion	15m, water (Plug and Receptacle)						
Protection Class	IP67 (mated or with dust cap)						

Dimensions



EUROLENS Receptacle Flange Mount

M4 (durchgehend)



EUROLENS Receptacle Jam Nut Mount



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EUROLENS Plug

EUROLENS Receptacle Flange Mount

EUROLENS Receptacle Jam Nut Mount

The EUROLENS-System is available with 2, 4, 8 and 12 channels in hard black anodized aluminum.

EUROLENS Part Number Scheme

X	х	Х	Х	-	Х	Х	X	X	<u> </u>	x	Х	Х	Х					
E	$\frac{1}{1}$	~	~		~	~	<u> </u>				~	~	~		EUROLENS – Family			
_	_																	
								Plug										
Z 0									Receptacle Jam Nut Mount									
	F O F O F O F O F O F O F O F O F O F O									Receptacle Flange Mount								
	-				S										Single Mode			
M											Multi Mode							
2 3										2 channel (3mm Lenses)								
						4	3								4 channel (3mm Lenses)			
	8 2										8 channel (2mm Lenses)							
	C 2										12 channel (2mm Lenses)							
								А							125 µm Ferrule			
	В									126 μm Ferrule								
							В	Н				Receptacle Connector Shell						
						В	С				Receptacle Connector Shell with Crimp							
										S	Ρ				Spiral Strain Relief Boot			
										4	0				4 mm Strain Relief Boot			
										5	0				5 mm Strain Relief Boot			
										6	0				6 mm Strain Relief Boot			
7 0								7	0				7 mm Strain Relief Boot					
	0 0											-		Standard				
	-											Х	Х		Customized Version			
	xa	-																
E	ELS0-S43A-6000								۰ ۱	6	0	0	0		EUROLENS plug, single mode, 4 channel, 125µm ferrule,			

Е	L	S	0	-	S	4	3	A	-	6	0	0	0
Е	L	z	0	-	м	2	3	в	-	в	н	0	0

6mm strain relief boot, standard

EUROLENS receptacle jam nut mount, multi mode, 2 channel, 126µm ferrule, receptacle connector shell, standard



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Bootsets

Description	Part number	Design
Boot set for cable ø4.0mm (with orientation mark)	EL01-04AS-4000	
Boot set for cable ø5.0mm (with orientation mark)	EL01-04AS-5000	
Boot set for cable ø6.0mm (with orientation mark)	EL01-04AS-6000 (2-/4ch) EL01-08AS-6000 (8-/12ch)	
Boot set for cable ø7.0mm (with orientation mark)	EL01-04AS-7000 (2-/4ch) EL01-08AS-7000 (8-/12ch)	
Spiral boot set for cable Ø4.0 – 6.5mm	EL01-04AS-SP00 EL01-08AS-SP00	

Accessories

Description	Part number	Design
Ferrule Set (2-/4ch) (2 Ferrules)	E001-023A-FS00 (125µm) E001-023B-FS00 (126µm)	and the second s
Ferrule Set (8-/12ch) (4 Ferrules)	E001-042A-FS00 (125µm) E001-042B-FS00 (126µm)	a la
Crimping Set (2-/4ch)	EL02-04CS-0000	
Crimping Set (8-/12ch)	EL02-08CS-0000	
Crimping Tool EUROLENS	CZB0-0900-EL00	



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