

Image guide (IGN series)

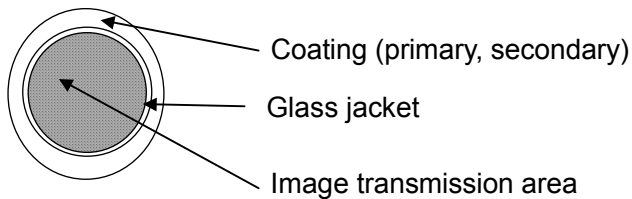
Image & Bundle Products

General

Image guide, which consists of thousands to tens of fiber elements arranged coherently, enables to transmit any picture image directly to a remote end. SEI's image guides, which are made of synthetic quartz and fabricated by drawing multi-core glass elements, provide excellent transparency at visible ray band and ultra-fine resolution. SEI's image guides have been contributing to application areas that need imaged data as diagnosis and inspections.

Physical characteristics (typical value)

	IGN-02/03	IGN-035/06	IGN-037/10	IGN-05/10	IGN-08/30	IGN-15/30	IGN-20/50
Number of picture elements	3000	6000	10000	10000	30000	30000	50000
Numerical aperture	0.35(nom.)					0.3(nom.)	
Diameter of fiber:(glass dia.) (mm)	0.2	0.35	0.37	0.5	0.8	1.5	2
Diameter of image transmission area (mm)	0.18	0.315	0.333	0.45	0.72	1.35	1.8
Distance between neighboring cores (um)	app.4					8-9	
Diameter of primary coating (mm)	0.25	0.42	0.45	0.59	0.96	1.9	2.4
Diameter of secondary coating (mm)	-					2.5	3
Core material	GeO ₂ Containing Silica						
Cladding material	F Containing Silica					Pure Silica	
Lattice defect(black dots)	< 0.1%					< 0.05%	
Allowable bending radius (mm)	10	15	20	25	40	75	100



[Cross sectional view]

Safety instructions

- **This Product is designed for industrial purpose.** If this Product is used of medical care or applied to medical equipment, it is the Purchaser's responsibility to ensure the Product meets all applicable safety, reliability or other standards or requirements.
- **Product should not be used as the delivered condition itself without additional protection (additional protection is like an outer protection tube and / or catheter into which the Product is inserted).** This is for preventing any hazards that might be occurred by small fine glass in the Product.

Contact infomationss

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