

Standard



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Summary

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[Customer Drawing](#)

Number of contacts Low Voltage	5
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Elbow
Locking system	Push-pull
Size	1B
Suggested matching part	FGA.1B.305.CLAD42
Series	B - Indoor keyed

https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/exa-1b-305-hln.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	5
Contact Termination Low voltage	PCB - Straight
R (max)	4.8 mOhm
Insert configuration value	1B.305/EXG - 5 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	4.5 A
Vtest (contact-contact)	1.8 kV (DC)
Vtest (contact-shell)	1.7 kV (DC)
Contact Dia.	0.9 mm (0.035in)
Gender	Standard

Form & Material

Shell style / Model id	EX - Elbow receptacle for printed circuit with two nuts (solder or screw fixing, back panel mounting)
Socket / Receptacle	Elbow
Housing material	PPS (Polyphenylene) shell, other pieces nickel plated [SAE AMS QQ N 290] brass
Locking system	Push-pull
Keying	A: 2 keys (alpha=30, plug: male contacts, receptacle: female contacts)
Weight	14.5 g

Environment

Technical domain	Audio Video, Energy and Industrial, Medical, Semiconductor, Specialties and Other, Test and Measurement, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP50
Endurance	5000 mating cycles
Temperature range	-55°C / +250°C (max. temperature valid for short periods of use.)
Climatic Category	55/175/21
Humidity (max)	<=95% [at 60 deg C /140 F]
Shielding (min)	75 dB (10 MHz)
Shielding (min)	40 dB (1 GHz)
Shock Resistance	100 g [6 ms]
Vibration	15 g [10 Hz - 2000 Hz]
Salt Spray Corrosion	>144 hr

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Recommended By Lemo

Accessories

Compatible cap	BRE.1S.200.NAS
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Tools

Spanner 2	DCM.65.122.AZ4
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Spanner wrench	Socket for torque wrench DCM.65.120.AZ
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CAD

Documents

PCB	Download
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PCB Eagle	Download
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Kicad	Download
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PCB Altium	Download
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https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/exa-1b-305-hin.html

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