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## Summary

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Number of contacts Low Voltage	1
Nb of contacts Thermocouple	2
Wire Size/AWG	32 - 24
Plug	Plug - Elbow
Locking system	Push-pull
Jacket cable outside diameter [mm]	3.30 - 4.20 mm
Size	0S
Suggested matching part	<a href="#">ERA.0S.303.CLT</a>
Series	S - Indoor Stepped Insert

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/flm-0s-303-cltd42.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/flm-0s-303-cltd42.html)

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# Technical details

## Electrical Configuration

Number of contacts Low Voltage	1
Contact Termination Low voltage	Solder
Nb of contacts Thermocouple	2
Contact Termination Thermocouple	Solder
Insert configuration value	0S.303/ThC - Thermocouple 1 Pair, 1 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	7 A
Thermocouple (P+/N-)	Pin 1 / Pin 2
ThC. Materials (P+/N-)	Copper / Constantan
Contact Dia.	0.7
Wire Size/AWG	32 - 24

## Form & Material

Shell style / Model id	FLM - Elbow (90°) plug with cable collet
Plug	Elbow
Housing material	Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces
Locking system	Push-pull
Keying	Hermaphroditic keying (half moon insert) with male pin 1
Colour	Grey

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## Environment

Technical domain	Audio Video, Energy and Industrial, Semiconductor, Test and Measurement
Environmental sealing (IP rating)	IP50
Endurance	5000 mating cycles
Temperature range	-55°C / +250°C (max. temperature valid for short periods of use.)
Climatical Category	50/175/21
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	>1000 hr

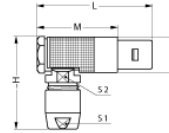
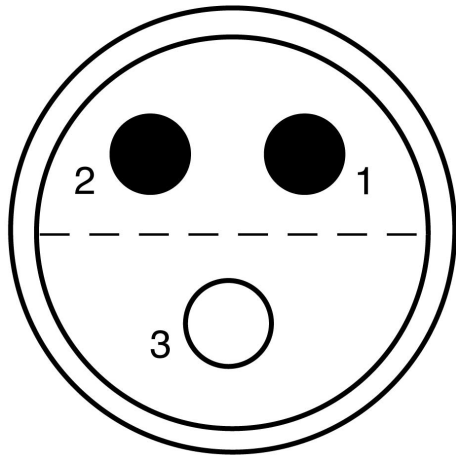
## Cable fixation

Cable termination protection	Standard back nut (no additional protection)
Fixation type	Cable collet
Jacket cable outside diameter [mm]	3.30 - 4.20 mm

# Drawings

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/flm-0s-303-cltd42.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/flm-0s-303-cltd42.html)

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Contact 1: Copper (+)  
Contact 2: Konstantan (-)

## Dimensions

	A	L	M	S1	S2	H
mm.	9.5	30	20	7	8	23.4
in.	0.37	1.18	0.79	0.28	0.31	0.92

## Recommended By Lemo

### Accessories

Compatible cap

[BFG.0B.100.PCZG](#)

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