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## Summary

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|                                    |   |
|------------------------------------|---|
| Number of contacts Low Voltage     | 4   |
| Wire Size/AWG                      | 30 - 22   |
| Socket / Receptacle                | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system                     | Push-pull                                       |
| Jacket cable outside diameter [mm] | 1.00 - 10.60 mm                                 |
| Size                               | 1S  |
| Suggested matching part            | <a href="#">FFA.1S.304.CLLC27</a>               |
| Series                             | S - Indoor Stepped Insert                       |

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/era-1s-304-cla.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/era-1s-304-cla.html)

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# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage  | 4                             |
| Contact Termination Low voltage | Solder                        |
| R (max)                         | 4.8 mOhm                      |
| Insert configuration value      | 1S.304 - 4 Low Voltage        |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                   | 10 A                          |
| Test voltage (kV DC)            | 1.8                           |
| Max. Solid Conductor            | 0.34 mm <sup>2</sup> (AWG 22) |
| Air clearance                   | 1.1 mm                        |
| Creepage distance               | 1.1 mm                        |
| Bucket Dia.                     | 0.8 mm (0.031in)              |
| Contact Dia.                    | 0.9 mm (0.0354in)             |
| Wire Size/AWG                   | 30 - 22                       |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | ERA - Fixed receptacle, nut fixing  |
| Socket / Receptacle    | Fixed Panel Front Mounted   |
| 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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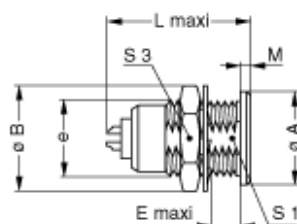
## Environment

|                                   |   |
|-----------------------------------|---|
| 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  |
| 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

|                                    |                 |
|------------------------------------|-----------------|
| Jacket cable outside diameter [mm] | 1.00 - 10.60 mm |
|------------------------------------|-----------------|

## Drawings



## Dimensions

|     | A    | B    | e       | E   | L    | M    | S1   | S3   |
|-----|------|------|---------|-----|------|------|------|------|
| mm. | 14   | 16   | M12x1.0 | 7.5 | 21   | 1.5  | 10.5 | 14   |
| in. | 0.55 | 0.63 |         | 0.3 | 0.83 | 0.06 | 0.41 | 0.55 |

## Recommended By Lemo



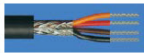
### Accessories

|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BRE.1S.200.NAS</a> |
|----------------|--------------------------------|

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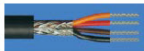

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# Cables

| Cable PartNumber   | Material      | Colour | Cable image   |
|--------------------|---------------|--------|---|
| CMN.04.T22.047QGC  | TPR           | Grey   |   |
| CMN.04.T22.048QGZE | TPR (medical) | Grey   |    |
| CMN.04.T28.031PGCE | PVC           | GREY   |    |
| CMN.04.T28.031PGZE |               | grey   |    |
| CMN.04.T28.031PNCE | PVC           | Black  |    |
| CMN.04.T28.031PNZE |               |        |    |
| CMN.04.T28.031QGC  | TPR           | Grey   |   |
| 140240             | PVC           | Black  |    |
| 140250             | PVC           | Grey   |    |
| 40080              | PVC           | Black  |   |
| 40086              | PVC           | Blue   |   |
| 40140              | PVC           | Black  |  |
| 40240              | PTFE          | White  |  |
| 40260              | PVC           | Black  |  |
| 4041               | PVC           | Grey   |  |
| 4050               | PVC           | Black  |  |
| 4080               | PVC           | Grey   |   |
| 417920             | PVC           | Grey   |  |
| 4220               | PVC           | Black  |  |
| 4221               | PVC           | Black  |  |
| 4260               | PTFE          | White  |  |

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| Cable PartNumber   | Material | Colour | Cable image   |
|--------------------|----------|--------|---|
| 4280               | PVC      | Black  |  |
| 80080              | PVC      | Grey   |   |
| 80082              | PVC      | Red    |   |
| 80084              | PVC      | Black  |   |
| CTR.75.030.121870G | PVC      | Grey   |  |

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