## smiths connectors





Specifically designed for the compact size and the advanced technical features of the Eurobalise system, the BOA series ensures a perfect transmission and a reliable signal integrity utilizing either Hypertac<sup>®</sup> Hyperboloid or Tortac<sup>®</sup> contact.

- ▶ IP 67 according to IEC 529 when mated
- Available colored plug & jumper versions on request
- Anti-tampering screws
- Vibration tests compliant to EIA 364.28, test cond. III
- Compliant to VG95234, MIL-C-5015, MIL-C-26482
- Custom solutions



# **TECHNOLOGIES**

#### **HYPERTAC®**

Low insertion/ extraction forces Long contact life: up to 100,000 insertion/extraction cycles Higher current ratings Immunity to shock & vibration Low cost of ownership and low power consumption Reliability under harsh environmental conditions

#### TORTAC®

Higher density with same mechanical and electrical properties of Hyperboloid contact

Single piece design that allows FEA instead of "trail & error" approach for new designs

High reliability, high resistance to salt spray

High signal speed thanks to the contact geometry



# **BOA SERIES**

## TECHNICAL CHARACTERISTICS

#### **SPECIFICATIONS**

- Number of Contacts: from 7 to 37 with same shell size
- Contact technology: Hyperboloid or Tortac<sup>®</sup>
- Receptacle contact termination: Straight PCB, Solder cup
- Plug contact termination: Solder cup, Dip solder
- Contact Dia: 1 mm

b

- Current Rating: 5A @ 25 C° for each contact according to IEC 512-3
- **Contact Resistance:** < 5 m $\Omega$  for each contact according to EIA 364
- Connector body: Aluminium alloy
- Connector life: 5000 mating cycles according to EIA 364.09

#### **FEATURES**

- Special plating to resist contamination under harsh environmental conditions along railway tracks
- Advanced contact technologies depending on the number of ways
- Bayonet locking system for easy maintenance and download/upload of new information into the balise
- Perfect transmission of data between the rail track and train borne equipment
- Anti-tampering system to avoid sabotages
- Colored plug versions: red, black, green, orange, yellow depending on the function

### SOME POSSIBLE CONFIGURATIONS

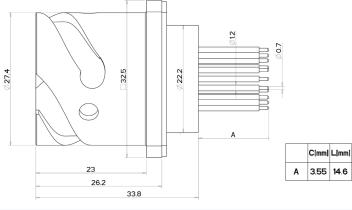
#### RECEPTACLE







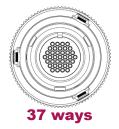




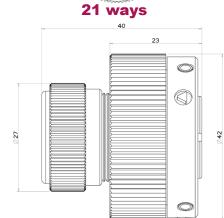
**JUMPER & PLUG** 



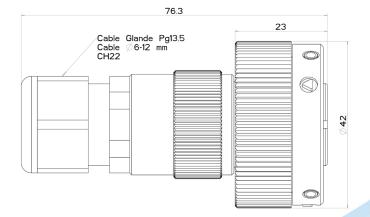












## **HOW TO ORDER**



## smiths connectors

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