


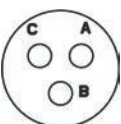

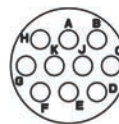
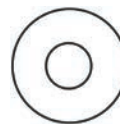
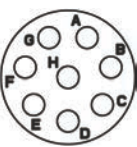

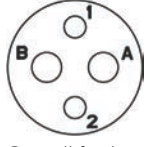
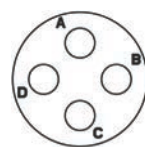
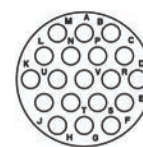
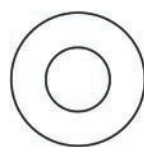
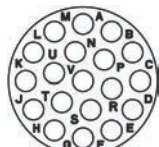
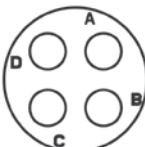
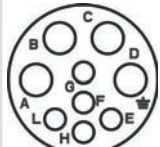

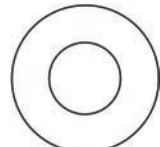



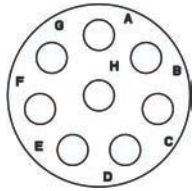

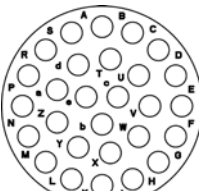
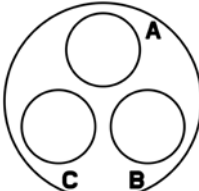
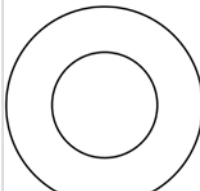
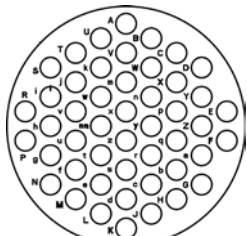
# eco|mate<sup>®</sup> rm

## Rugged Metal Shielded Connectors

### Insert Arrangements

Shell Size	RTO				RTHP	
	Contact #16 (Ø 1.6)	Mixed Power & Signal	Contact 2.5mm	Contact #20 (Ø 1.0)	Single Pin Power RADSOK <sup>®</sup>	
10	 <p>4 positions Contact #16 (Ø 1.6) 13A 300V see page 29</p>	 <p>4 positions Contact #16 (Ø 1.6) &amp; #20 (Ø 1.0) 13A &amp; 20# 5A 350V AC/DC see page 37</p>	Consult factory	 <p>6 positions Contact #20 (Ø 1.0) 5A, 7A(machined) 150V see page 71</p>	Consult factory	
12	 <p>3 positions Contact #16 (Ø 1.6) 13A 300V see page 21</p>	 <p>8 positions Contact #16 (Ø 1.6) 13A 300V see page 79</p>	Consult factory	 <p>10 positions Contact #20 (Ø 1.0) 5A, 7.5A(machined) 150V see page 111</p>	 <p>1 position Contact 3.6mm 8&amp;A 630V AC/DC see page 179</p>	
14	 <p>8 positions Contact #16 (Ø 1.6) 13A 300V AC/DC page 87</p>	 <p>12 positions Contact #16 (Ø 1.6) 13A 300V see page 119</p>	 <p>4 positions Contact 2.5mm #16 (Ø 1.6) 23A &amp; 13A 350V AC/DC see page 47</p>	 <p>4 positions Contact 2.5mm 23A 350V AC/DC see page 55</p>	 <p>19 positions Contact #20 (Ø 1.0) 5A, 7.5A(machined) 150V see page 127</p>	 <p>1 position Contact 6mm 120A 630V AC/DC see page 183</p>
16	 <p>19 positions Contact #16 (Ø 1.6) 13A 300V see page 135</p>	 <p>4 positions Contact #8 (Ø 3.6) 45A 500V AC/DC see page 63</p>	 <p>9 positions Contact 2.5mm &amp; #16 (Ø 1.6) 23A &amp; 13A 350V AC/DC see page 103</p>	Consult factory	 <p>26 positions Contact #20 (Ø 1.0) 5A, 7.5A(machined) 150V see page 151</p>	 <p>1 position Contact 8mm 120A - 180A 630V AC/DC see page 187</p>

# Connector Guide

Shell Size	RTO			RTHP	
	Contact #16 (Ø 1.6)	Mixed Power & Signal	Contact 2.5mm	Contact #20 (Ø 1.0) or Contact 3.6mm	Single Pin Power RADSOK®
18	 <p>23 positions Contact #16 (Ø 1.6) 13A 300V see page 143</p>	Consult factory	 <p>8 positions Contact 2.5mm 23A 375V AC/DC see page 95</p>	 <p>32 positions Contact #20 (Ø 1.0) 5A, 7.5A 150V see page 167</p>	Consult factory
20	 <p>28 positions Contact #16 (Ø 1.6) 13A 300V see page 159</p>	Consult factory	Consult factory	RTHP	
				 <p>3 positions Contact 3.6mm 86A 630V see page 197</p>	 <p>1 position Contact 10mm 120A - 300A 630V see page 191</p>
24	 <p>48 positions Contact #16 (Ø 1.6) 13A 300V see page 174</p>	Consult factory	Consult factory	Consult factory	Consult factory

Insert Arrangements are Pin Faceview

# eco|mate<sup>®</sup> rm

## Rugged Metal Shielded Connectors

### General Technical Characteristics



### Materials

- **Zinc Alloy Shells**
- **Metal Alloy Backshells and Cable Glands**
- **Aluminum Alloy, Nickel Plated Coupling Ring**
- **Stainless Steel Coupling Spring**
- **Contacts Plating Options**
  - Gold Flash over Tin
  - Tin
  - Silver
  - 5 $\mu$ , 10 $\mu$ , 15 $\mu$ , 30 $\mu$
  - Gold Flash
  - Other platings on request
- **Insulation Resistance**
  - 5000 megohms minimum of 25° C
- **Insulation Inserts**
  - Thermoplastic, UL94 V-0

### Environmental

- **IP67**
- **Operating Temperature**
  - 40° to 105° C - Standard Products with NBR Seal
  - 40° to 125° C - Standard Products with Silicone Seal
  - 40° to 125° C - High Amperage Products with RADSOK<sup>®</sup> technology
- **Flammability Rating** UL94 V-0
- **Salt Spray**
  - Per MIL-STD-202 method 101
  - 48 h ( standard version)
  - 96 h (black anodized coupling ring)
  - Higher salt spray resistance (200/500h) upon request
- **Sealing**
  - In mated condition and in combination with sealed backshell
- **Fluid Resistance**
  - Gas, oil, mineral oil, acid bath, basic bath

# Connector Guide



## Electrical

- **In Accordance With**  
UL 1977: Certificate ECBT2  
File number: E339831
- **More information**  
see “Technical Section” starting on  
page 228

## Mechanical

- **Durability**  
RT Series : >500 mating cycles  
RTHP Series: >100 mating cycles
- **Vibration**  
10-2000 Hz, level of 20 G's
- **Thermal Shock**  
No cracking, chipping or leaking after 20  
test cycles from -55°C to 125°C
- **Contact Resistance**  
#16 <6 mΩ  
#20 <15 mΩ  
eco | mate® rm with RADSOK® < 1m Ω