

A photograph of an industrial engine assembly line. Multiple engine blocks are visible, each with various hoses and wires connected. Orange electrical control boxes are mounted on the overhead structure. The scene is brightly lit with industrial lights.

Souriau circular connectors

Reliable, durable circular connectors  
for industrial applications

**EATON**

*Powering Business Worldwide*







# A powerful solution for every application

Each application is unique with its own challenges. Souriau circular connectors' unparalleled resistance to harsh environments make them the right solution. Waterproof and UV resistant, our connectors are designed to maintain signal integrity and mechanical/electrical functionality in mixed power and signal layouts.

|                                 | Clipper series | UTS/UTSX series | UTGX series | UTO series | UTL series | 851 series |
|---------------------------------|----------------|-----------------|-------------|------------|------------|------------|
| Agriculture                     | ●              | ●               | ●           | ●          | ●          | ●          |
| Building automation and control | ●              | ●               | ●           |            | ●          | ●          |
| Data centers                    | ●              | ●               |             | ●          |            |            |
| Energy                          | ●              | ●               |             | ●          | ●          | ●          |
| Factory automation              | ●              | ●               | ●           | ●          | ●          | ●          |
| Instrumentation                 | ●              | ●               |             | ●          | ●          | ●          |
| Lighting                        | ●              | ●               | ●           |            | ●          |            |
| Mining, metals and minerals     |                | ●               |             | ●          |            | ●          |
| Off-road                        | ●              | ●               | ●           | ●          |            | ●          |
| Oil and gas                     |                |                 |             |            |            | ●          |
| Telecommunications              | ●              | ●               | ●           | ●          | ●          | ●          |
| Utilities                       |                | ●               |             |            |            |            |

# Souriau circular connectors



|                                                                  | CLIPPER series                                         | UTS/UTSX series                                                | UTGX series                                           |
|------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------|
| <b>Shell type</b>                                                | Plastic                                                | Plastic                                                        | Plastic + metal coupling                              |
| <b>Coupling type</b>                                             | 180° screw coupling with positive audible safety latch | 1/3-turn bayonet and audible click                             | 1/3-turn bayonet and audible click                    |
| <b>Waterproof / IP rating</b><br>*with solder or O-ring contacts | IP67/68                                                | IP68/69K mated/unmated*                                        | IP68/69K mated/unmated*                               |
| <b>Salt spray</b>                                                | > 1,000 hours                                          | ≥ 500 hours                                                    | ≥ 500 hours                                           |
| <b>Unique attributes</b>                                         | Plastic cost effective and robust                      | UV resistant                                                   | Lightweight plastic and robust metal coupling         |
| <b>Plating type</b>                                              | No plating                                             | No plating                                                     | No plating                                            |
| <b>Temperature range</b>                                         | -40° C +125° C                                         | -40° C +105° C                                                 | -40° C +105° C                                        |
| <b>Mating cycles</b>                                             | 250                                                    | 250                                                            | 500                                                   |
| <b>Number of shell sizes</b>                                     | 4 sizes<br>( 1, 2, 3, 4) [diameter 21 to 40 mm]        | UTS: 5 sizes (8, 10, 12, 14, 18)<br>UTSX: 3 sizes (10, 12, 14) | 3 sizes<br>(10, 12, 14)                               |
| <b>Number of layouts</b>                                         | 8 layouts                                              | UTS: 36 layouts / UTSX: 24 layouts                             | 24 layouts                                            |
| <b>Wire gauge</b>                                                | 14 - 24 AWG                                            | 8 - 30 AWG                                                     | 8 - 30 AWG                                            |
| <b>Contact size range</b>                                        | #16, #20                                               | #8, #12, #16, #20                                              | #8, #12, #16, #20                                     |
| <b>Receptacle configurations</b>                                 | Square flange and in-line receptacle                   | Square flange jam nut and in-line threaded receptacle          | Square flange jam nut and in-line threaded receptacle |
| <b>Contact current rating</b>                                    | Up to 13 AMPS                                          | Up to 44 AMPS                                                  | Up to 44 AMPS                                         |
| <b>Contact termination types</b>                                 | Solder, crimp                                          | Solder, crimp, PCB straight, screw, coax                       | Solder, crimp, PCB straight, screw, coax              |
| <b>Contact types</b>                                             | Stamped and formed, machined                           | Stamped and formed, machined, coaxial and fiber optic          | Stamped and formed, machined, coaxial and fiber optic |
| <b>Mixed power and signal layouts</b>                            | No                                                     | Yes                                                            | Yes                                                   |
| <b>Flammability rating</b>                                       | UL94 V0<br>(UL94 HB for sealed unmated version)        | UL94 V0<br>(UL94 HB for sealed unmated version)                | UL94 V0<br>(UL94 HB for sealed unmated version)       |
| <b>Ethernet compatible</b><br>**certain layouts                  | No                                                     | Yes**                                                          | Yes**                                                 |
| <b>Environmental RoHS</b>                                        | Yes                                                    | Yes                                                            | Yes                                                   |

|                          |                                           |                                       |                                                                                   |
|--------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------|
| <b>Intermateable (1)</b> | Interchangeable with connectors type 5015 | Souriau UTG, UTGX, UTO and UTP series | Not intermateable, but interchangeable with Souriau UTS, UTSX, UTG and UTO series |
|--------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------|

**Note:** (1): Product series are conditionally intermateable with same shell size/layout patern but IP, electrical and mechanical performances may be affected. Eaton cannot guarantee or warranty product performance levels when mated or used in conjunction with non-Souriau product.



| UTO series                                            | UTL series                                                       | 851 series                                                                  |
|-------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Metal                                                 | Plastic + metal latch                                            | Metal                                                                       |
| 1/3-turn bayonet and audible click                    | Push-Pull and audible click                                      | 1/3-turn bayonet and audible click                                          |
| IP68/69K mated                                        | IP68/69K mated/unmated*                                          | IP67 mated (with appropriate backshells)<br>IP68 (with cable gland)         |
| 48 hours - Nickel<br>96 hours - Black anodized        | > 1,000 hours                                                    | 48 hours - Cadmium, Nickel<br>500 hours - Black anodized, Black Zinc Nickel |
| EMI shielding (98 dB at 1 MHz)                        | Key shape blind mate, UV resistant and current breaking capacity | High density layout (2 to 61 contacts)<br>Robust and corrosion resistant    |
| Black anodized or Nickel                              | No plating (latch stainless steel)                               | Cadmium, Black anodized, Black Zinc Nickel, Nickel                          |
| -40° C +105° C                                        | -40° C +105° C                                                   | -55° C +125° C                                                              |
| 500                                                   | 1,000                                                            | 500                                                                         |
| 8 sizes<br>(10, 12, 14, 16, 18, 20, 22, 24)           | 3 sizes<br>(10, 12, 14)                                          | 9 sizes<br>(8, 10, 12, 14, 16, 18, 20, 22, 24)                              |
| 27 layouts                                            | 4 layouts                                                        | 38 layouts                                                                  |
| 8 - 30 AWG                                            | 14 - 30 AWG                                                      | 14 AWG and smaller                                                          |
| #8, #12, #16, #20                                     | #16, #20                                                         | #16, #20                                                                    |
| Square flange, jam nut                                | Square flange, jam nut and in-line                               | Square flange, jam nut and in-line                                          |
| Up to 44 AMPS                                         | Up to 16 AMPS                                                    | Up to 13 AMPS                                                               |
| Solder, crimp, PCB straight, coax                     | Crimp, screw, coax                                               | Solder, crimp, PCB straight                                                 |
| Stamped and formed, machined, coaxial and fiber optic | Stamped and formed, machined, coaxial and fiber optic            | Machined                                                                    |
| Yes                                                   | Yes                                                              | Yes                                                                         |
| UL94 V0                                               | UL94 5VA                                                         | UL 94 HB                                                                    |
| Yes**                                                 | Yes + DMX/DALI/RDM                                               | Yes**                                                                       |
| Yes                                                   | Yes                                                              | Yes                                                                         |

Souriau UTS, UTSX, UTX and UTP series

None

MIL DTL 26482 series 1

