



**THE DATASHEET OF
SM16M11S6**



A photograph of an industrial factory floor. In the foreground, there are several large, complex metal assemblies, possibly engine components, mounted on a production line. Above these assemblies, there are rows of orange overhead equipment, likely power distribution units or control panels, connected by a network of blue and black cables. The background shows more of the factory structure, including overhead beams and lights, creating a sense of a busy industrial environment.

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

Intermateable (1)	Interchangeable with connectors type 5015	Souriau UTG, UTGX, UTO and UTP series	Not intermateable, but interchangeable with Souriau UTS, UTSX, UTG and UTO series
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Note: (1): Product series are conditionally intermateable with same shell size/layout pattern 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.

Souriau circular connectors



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) IP68 (with cable gland)
48 hours - Nickel 96 hours - Black anodized	> 1,000 hours	48 hours - Cadmium, Nickel 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) 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 (10, 12, 14, 16, 18, 20, 22, 24)	3 sizes (10, 12, 14)	9 sizes (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



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