

All-in-one hybrid connector Souriau UTL 4W4



Connect power and signals with our all-in-one hybrid connector

Details and features



4 power contacts

- #8 contacts, silver plated
- Up to 44A per contact
- Wires AWG 16 to 8 / 1.5mm² to 10mm²

4 signal contacts

- BMS, CAN bus, Ethernet
- Last-mate, first-break (LMFB)
- Up to 16A per contact
- Wires AWG 30 to 14 / 0.05mm² to 2.5mm²

Self-closing cap

- Spring-loaded self-closing cap
- IP 44 rated
- Sealing joint

Applications

Electric vehicles

- Motorcycles
- Cargo bikes
- Small boats
- Small cars

Robots

- Warehouse handling
- Drones

Customer benefits

Easy mating

- Blind mating
- Touch-proof plug
- 1000 mating cycles

Tough

- IP68/69K in mated condition
- IP44 self-closing cap
- F1 rated plastic, UV resistance for minimum 5 years
- Salt spray: >1000 hours

Safe

- UL, CSA and IEC qualified
- Last-mate first-break signal contacts
- Designed to be mated and unmated under load

Our hybrid connector is ideal for battery connection applications. Not only does it streamline designs by replacing two separate connectors with a single solution, but it also contributes to cost savings by reducing inventory and enhancing overall system efficiency.

EATON

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Part numbers

UTL6JC164W4S



UTL 16 plug with UTS backshell

UTL0164 W4P19



Panel mount receptacle with self-closing cap

UTL6164W4S



UTL 16 plug for overmoulding cable

Description	Power contacts P/N	Wire size (AWG)	Wire size (mm ²)	Male / female
Machined power contacts	82913600A	16	1.5	Female
	82913601A	16	1.5	Male
	82913602A	14	2.5	Female
	82913603A	14	2.5	Male
	82913604A	12	4	Female
	82913605A	12	4	Male
	82913606A	10	6	Female
	82913607A	10	6	Male
	82913608A	8	10	Female
82913609A	8	10	Male	

Description	# 16 contacts P/N	Wire size (AWG)	Wire size (mm ²)	Male / female
Machined #16 contacts	RM28M1K	30-28	0.05-0.08	Male
	RC28M1K	30-28	0.05-0.08	Female
	RM24M9K	26-24	0.13-0.25	Male
	RC24M9K	26-24	0.13-0.25	Female
	RM20M13K	22-20	0.32-0.52	Male
	RC20M13K	22-20	0.32-0.52	Female
	RM20M12K	22-20	0.32-0.52	Male
	RC20M12K	22-20	0.32-0.52	Female
	RM16M23K	20-16	0.52-1.5	Male
	RC16M23K	20-16	0.52-1.5	Female
	RM14M30K	16-14	1.5-2.5	Male
	RC14M30K	16-14	1.5-2.5	Female
	Stamped & formed reeled #16 contacts	SM24M1TK6	26-24	0.13-0.25
SC24M1TK6		26-24	0.13-0.25	Female
SM20M1TK6		22-20	0.32-0.52	Male
SC20M1TK6		22-20	0.32-0.52	Female
SM16M1TK6		18-16	0.8-1.5	Male
SC16M1TK6		18-16	0.8-1.5	Female
SM1611TK6		18-16	0.8-1.5	Male
SC1611TK6		18-16	0.8-1.5	Female
SM14M1TK6		14	2.5	Male
SC14M1TK6		14	2.5	Female

Technical features

Materials

- **Housing**
 - Thermoplastic
- **Contacts**
 - Copper alloy
- **Latch**
 - Stainless steel

Environmental

- Temperature class (according to IEC61984): from -40°C to +105°C
- Flammability rating
 - UL94: V-0 for connector
 - UL94: 5VA for thermoplastic
 - UL746C: 5-inch (127mm) end-product flame test
- Salt spray: >1000 hours
- UV resistance: F1 material (no mechanical degradation or color change due to UV exposure)

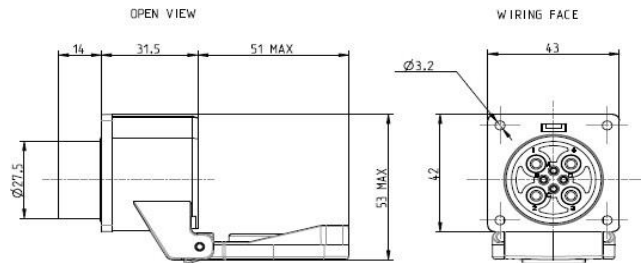
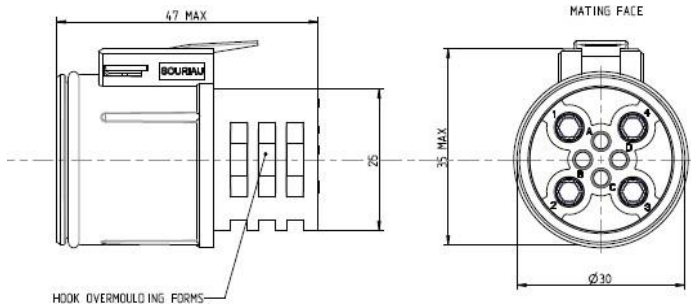
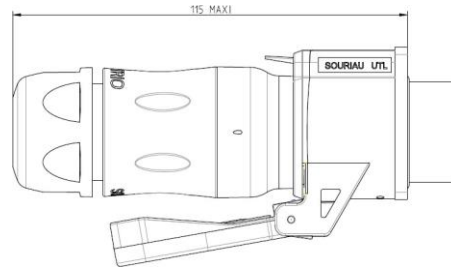
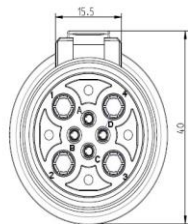
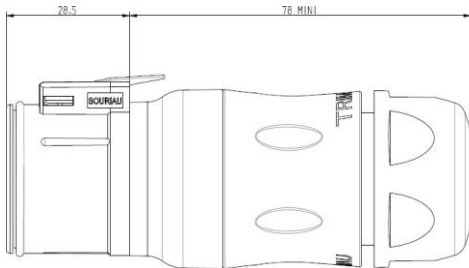
- **Sealing**
 - IP68 (1 bar / 1 week) /69K mated with standard contacts
- **Moisture-proof**
- **Self-closing cap: IP44**
- **Fluid resistance**
 - Gas and oil
 - Mineral oil
 - Acid bath
 - Basic bath
 - For other fluids, contact Eaton
- **Halogen free**
- **RoHS compliant**

Electrical

- First-mate last-break power contacts
- Touch-proof contacts on socket-side
- In accordance with:
 - UL1977
 - C22.2
 - IEC 61984

Mechanical

- **Durability: 1000 mating & unmating cycles**
- **Coupling system:**
 - Tactile and audible click
 - Blind mating
- **Touchproof: IP2x in unmated condition (for socket-side)**
- **Shock resistance: IK07 according to IEC62262**



For more information, contact us:
eaton.com/interconnect-support

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