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Description

"UTOW" industrial circular connectors are a range of multi way connectors available in 8 shell sizes and 8 high density insert arrangements.

"UTOW" wall mounting receptacle connectors have the same panel cut-out dimensions as the MIL-C-26482 series I specifications.

Strong and rugged built to resist every environmental and mechanical requirement for indoor and outdoor applications.

Amongst several characteristics, "UTOW" offers possibilities on: Shielding, high levels on sealing and salt spray.

Features and benefits (see p2)

- · Suitable for EMC requirements.
- Available in 8 shell sizes and 8 insert arrangements.
- Available in plug and receptacle version for both male and female contacts.
- Different insert orientations possible
- Plastic inserts with flammability rating: UL94-VO
- 2 levels of water protection: Dynamic IP67 and IP68 both versions are IP69K
- 2 levels of salt spray: 48h and 96h Higher salt spray resistance (200/500h) upon
- Higher salt spray (200/500h) upon request.
- UL recognition in process.
- · Metal bayonet ring:
- Metal wave spring loaded
- Locks with audible positive "click"
- Assures 500 matings and unmatings
- · RoHS compliant

Plating:



Performance characteristics

Operating	
temperature:	-40°C to +105°C
Insulation resistance:	5000 M $Ω$ min.
Test potential:	1500 VAC
Durability:	500 matings and
	unmatings.
Vibration	Per MIL-STD202
resistance:	method 204
Thermal	Per MIL-STD202
shock:	method 207
Corrosion:	Salt spray per MIL-STD
	202 method 101
	48h (standard version)
	96h (black anodised
	coupling ring)
1.12 - 1 10	(000 / 500 l-)

Higher salt spray resistance (200/500h) upon request

Shielding effectiveness: 65 dB at 10 Mhz
Degree of water protection per DIN 40050:
Dynamic IP67 / IP68 / IP69K in mated condition
and in combination with sealed back shell

Construction

Shells and accessories: Zinc alloy
Coupling ring: Aluminium alloy
Coupling spring: Spring stainless steel
Insert: Glass-filled thermoplast UL94-V0
Finish: Nickel plated
RoHS compliant

Contact accommodation

- "UTOW" connectors accept TRIM TRIO size 20 crimp-type removable snap-lock contacts (see contacts section)
- · Contacts to be ordered seperately

How to order

How to order	'							
Connector family:	uтоw uтоw	0 6	16 16	26 26	P S	-	H or H6	 -
Body variation :	0: Wall mounting receptacle6: Cable plug7: Jam nut receptacle for rear panel mounting							
Shell size :								
Insert arrangemen	t:							
Type of contacts:	P: Pin contacts S: Socket contacts							
Insert polarisation	: No letter : Standard version W, X, Y, Z : Different orientations (consult factor)	ory)						
Application :	H: Standard version, water protection IP 67 & I	P 69K						

H6: Water protected IP 68 & IP 69K (only needed for wall mounting & jam nut receptacles)

Design variation : No letter : Standard version **Others :** Special versions

No letter: standard is nickel plating (48h salt spray)

O1: Black anodised, jam nut (96h salt spray)

02: Black anodised coupling ring (96h salt spray)

New UTO-UTOW series



New UTO - UTOW series:

- The exclusive new product range in the TRIM TRIO broadline.
- Aesthetic and top class performances

UTO - UTOW series major technical features & benefits

· Full metal bayonet connector

- Enabling 500 mating-unmating without wear out
- Secure locking device: audible "click" when mating



Dynamic IP68*

Connector will remain IP68 even when:

- Pulling on the cable
- Bending the cable



- * With appropriate back shell
- * Exists also in IP67 version

Dynamic IP69K*

Connector withstands high pressure water cleaning.



* With appropriate back shell

High salt spray resistance*

- Can be used in severe environment
- * Exists in 48 and 96 hours salt spray version
- * Higher salt spray resistance (e.g. 200 or 500 hours) upon request

· RoHS compliant

- Cadmium and lead free materials are used

In accordance with following standards

- UTO is Ethernet Cat5e compatible (consult factory)
- UTO-UTOW ranges are upgradeable to highspeed solutions





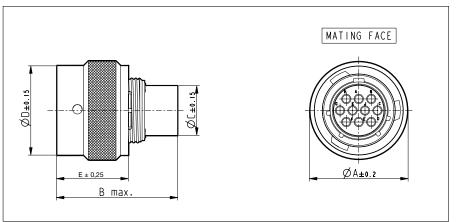
For detailed information on UTO and UTOW series offering see pages 21 to 31





Cable plug for pin contacts (UT0W6----PH)





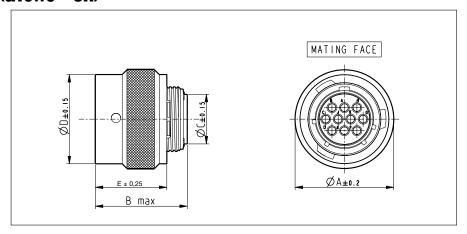
Part number	Shell size	Ø A ± 0.2	B max.	Ø C ± 0.15	Ø D ± 0.15	E ± 0.25
UTOW6106PH	10	21.80		10.2	20.00	
UT0W61210PH	12	26.10		13.4	23.60	
UT0W61419PH	14	29.30		16.7	26.80	19.00
UT0W61626PH	16	32.45	33.00	19.7	30.00	
UT0W61832PH	18	35.25	33.00	21.7	33.30	
UT0W62041PH	20	38.80		24.9	36.55	
UT0W62255PH	22	42.00		28.1	39.50	
UT0W62461PH	24	45.05		31.2	42.60	

Part numbers are suitable for both IP67 and IP68 water protection

For 96h salt spray version add "02" behind "H" e.g. UTOW61419PH02 (only bayonet ring will be black anodised)

Cable plug for socket contacts (UT0W6----SH)





Part number	Shell size	Ø A ^{± 0.2}	B max.	Ø C ± 0.15	Ø D ± 0.15	E ± 0.25
UT0W6106SH	10	21.80		10.2	20.00	
UT0W61210SH	12	26.10		13.4	23.60	19.00
UT0W61419SH	14	29.30	25.30	25.30 16.7 19.7	26.80	
UT0W61626SH	16	32.45			30.00	
UT0W61832SH	18	35.25		21.7	33.30	
UT0W62041SH	20	38.80	27.30	24.9	36.55	
UT0W62255SH	22	42.00		28.1	39.50	
UT0W62461SH	24	45.05		31.2	42.60	

Part numbers are suitable for both IP67 and IP68 water protection

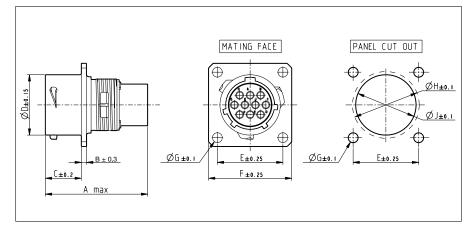
For 96h salt spray version add "02" behind "H" e.g. UT0W61419SH02 (only bayonet ring will be black anodised)





Wall mounting receptacle for pin contacts (UT0W0----PH/PH6)





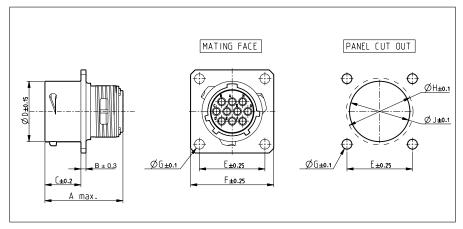
Part i IP67	number IP68	Shell size	A max.	B ± 0,3	C ± 0.2	Ø D ± 0.15	E ± 0.25	F ± 0.25	Ø G ± 0.1	Ø H ± 0.1	Ø J ± 0.1					
UT0W0106PH	UT0W0106PH6	10				15.0	18.3	23.8		17.3	14.2					
UT0W01210PH	UT0W01210PH6	12	33.23	3.23 1.6 11	11.35	19.0	20.6	26.2		21.8	18.4					
UT0W01419PH	UT0W01419PH6	14				22.2	23.0	28.6		25.0	21.5					
UT0W01626PH	UT0W01626PH6	16										25.3	24.6	31.0	3.2	28.1
UT0W01832PH	UT0W01832PH6	18				28.5	26.9	33.3		31.3	27.8					
UT0W02041PH	UT0W02041PH6	20			14.55	31.7	29.4	36.5		34.5	30.9					
UT0W02255PH	UT0W02255PH6	22	34.75	34.75 2.4	14.55	34.9	31.8	39.7		37.7	34.1					
UT0W02461PH	UT0W02461PH6	24			15.35	38.0	34.9	42.9	3.9	40.9	37.3					

Part numbers are suitable for both 48hrs and 96h salt spray.

A square sealing has to be ordered separately to guarantee a sealing with equipment. Refer to "Circular accessories" section (UTFD--).

Wall mounting receptacle for socket contacts (UTOW0----SH/SH6)





Part r	number	Shell	A	В	С	Ø D	E	F	ØG	ØН	ØJ±										
IP67	IP68	size	max.	± 0.3	± 0.2	± 0.15	± 0.25	± 0.25	± 0.1	± 0.1	0.1										
UTOW0106SH	UT0W0106SH6	10				15.0	18.3	23.8		17.3	14.2										
UT0W01210SH	UT0W01210SH6	12				19.0	20.6	26.2		21.8	18.4										
UT0W01419SH	UT0W01419SH6	14	25.20	20 1.6	11.35	22.2	23.0	28.6		25.0	21.5										
UT0W01626SH	UT0W01626SH6	16														25.3	24.6	31.0	3.2	28.1	24.6
UT0W01832SH	UT0W01832SH6	18				28.5	26.9	33.3		31.3	27.8										
UT0W02041SH	UT0W02041SH6	20			14.55	31.7	29.4	36.5		34.5	30.9										
UT0W02255SH	UT0W02255SH6	22	29.00	2.4	14.55	34.9	31.8	39.7		37.7	34.1										
UT0W02461SH	UT0W02461SH6	24			15.35	38.0	34.9	42.9	3.9	40.9	37.3										

Part numbers are suitable for both 48hrs and 96h salt spray.

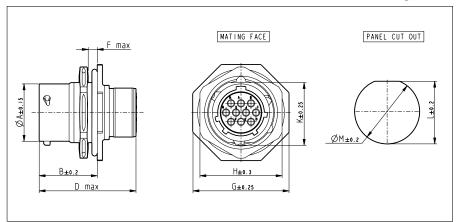
A square sealing has to be ordered separately to guarantee a sealing with equipment. Refer to "Circular accessories" section (UTFD--).





Jam nut receptacle for pin contacts (UTOW7---PH/PH6) - suitable for rear panel mounting



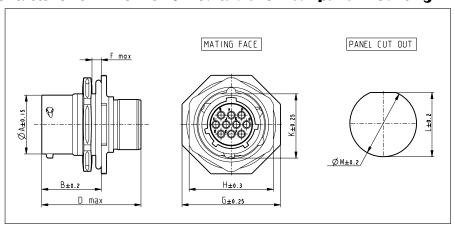


Part i IP67	number IP68	Shell size	Ø A ± 0.15	B ± 0.2	D Max.	F Max.	G ± 0.25	H ± 0.3	K ± 0.2	L ± 0.2	Ø M ± 0.2
UT0W7106PH	UT0W7106PH6	10	14.9		33.90 3.2		27.0	22.2	16.6	17.0	17.7
UT0W71210PH	UT0W71210PH6	12	19.0				31.8	27.0	20.8	21.2	22.5
UT0W71419PH	UT0W71419PH6	14	22.2	19.30		3.2	34.9	30.2	23.9	24.3	25.7
UT0W71626PH	UT0W71626PH6	16	25.3				38.1	33.3	27.1	27.5	28.7
UT0W71832PH	UT0W71832PH6	18	28.5				41.3	36.5	30.3	30.6	32.0
UT0W72041PH	UT0W72041PH6	20	31.7	24.70	20.00		46.1	39.7	33.4	33.8	35.2
UT0W72255PH	UT0W72255PH6	22	34.9		24.70 39.00	6.4	49.2	42.9	36.6	37.0	38.4
UT0W72461PH	UT0W72461PH6	24	38.0	25.50	40.50		53.4	46.0	39.8	40.1	41.5

For 96h salt spray version add "01" at the end of the part number e.g. UT0W71419PH601 (only jam nut will be black anodised)

Jam nut receptacle for socket contacts (UTOW7---SH/SH6) - suitable for rear panel mounting





	number	Shell	ØA	В	D	F	G	Н	К	L	øм
IP67	IP68	size	± 0.15	± 0.2	Max.	Max.	± 0.25	± 0.3	± 0.2	± 0.2	± 0.2
UT0W7106SH	UT0W7106SH6	10	14.9		9.30 33.00		27.0	22.2	16.6	17.0	17.7
UT0W71210SH	UT0W71210SH6	12	19.0				31.8	27.0	20.8	21.2	22.5
UT0W71419SH	UT0W71419SH6	14	22.2	19.30		3.2	34.9	30.2	23.9	24.3	25.7
UT0W71626SH	UT0W71626SH6	16	25.3				38.1	33.3	27.1	27.5	28.7
UT0W71832SH	UT0W71832SH6	18	28.5				41.3	36.5	30.3	30.6	32.0
UT0W72041SH	UT0W72041SH6	20	31.7	24.70	39.00		46.1	39.7	33.4	33.8	35.2
UT0W72255SH	UT0W72255SH6	22	34.9	24.70	39.00	6.4	49.2	42.9	36.6	37.0	38.4
UT0W72461SH	UT0W72461SH6	24	38.0	25.50	40.50		53.4	46.0	39.8	40.1	41.5

For 96h salt spray version add "01" at the end of the part number e.g. UTOW71419PH601 (only jam nut will be black anodised)





Insert rotation positions

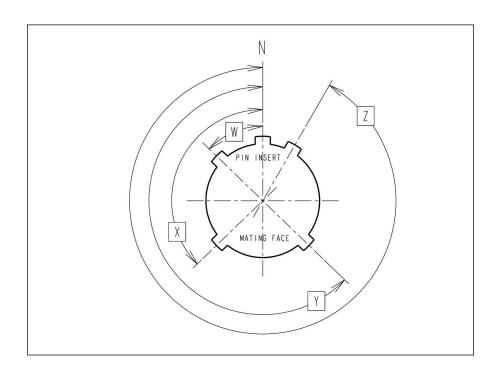
The table shows possible insert rotation positions.

5 positions N,W,X,Y and Z differ in the degree of rotation for the various connectors sizes.

The table indicates the exact degree of rotation.

Note: Insert rotation positions are optional (consult factory)

Chall size	hell size Contact	Insert rotation positions									
Sneii Size	number	w	X	у	Z						
10	6	90	-	-	-						
12	10	60	155	270	295						
14	19	30	165	315	-						
16	26	60	-	275	338						
18	32	85	138	222	265						
20	41	45	126	225	-						
22	55	30	142	226	314						
24	61	90	180	270	324						



Extra 0-seals for wall mounting (UTOW0) and jam nut (UTOW7) receptacle connectos

An extra 0-seal must be mounted on the receptacle connectors when a backshell is used. This to guarantee the IP68 sealing level

Part number	Shell size
UT010REARSEAL	10
UT012REARSEAL	12
UT014REARSEAL	14
UT016REARSEAL	16
UT018REARSEAL	18
UT020REARSEAL	20
UT022REARSEAL	22
UT024REARSEAL	24