

Metallised plastic connector for EMC requirements

Description

“UTGS” Shielded Bantam are a range of industrial circular connectors suitable for EMC requirements.

It is a range of multiway connectors available in 8 shell sizes and 13 insert arrangements all interchangeable, interchangeable and intermountable with the Trim-Trio “UT0” metal connector families.

Finding its origin in the “UTG” range, “UTGS” keeps the metal locking system, whilst the connectors are selectively metallised.

This together with a new shielded backshell offers a competent, reliable, user friendly and cost effective solution .

Features and benefits

- Suitable for EMC requirements.
- Shielded backshell is independent from the cable diameter and its shielding.
- Available in 8 shell sizes and 13 insert arrangements incl. 3 VDE versions and one power version.
- Available in plug and receptacle versions for both male and female contacts.
- Connectors are moulded from highly durable glass-filled thermoplastic.
- Selectively nickel plated
- Flammability rating: UL94-V0.
- Metal bayonet ring:
 - Metal wave spring loaded.
 - Locks with audible positive “click”
 - Assures 500 matings and unmatings

Performance characteristics

Operating temperature:	-55°C to +125°C
Insulation resistance:	5000 MΩ min.
Test potential:	2000 VAC
Durability:	500 matings and unmatings.
Vibration resistance:	Per MIL-STD202 method 204
Thermal shock:	Per MIL-STD202 method 207
Corrosion:	Salt spray per MIL-STD 202 method 101

Shielding effectiveness: 95 dB at 1 Mhz

(See shielded connectors section)

Degree of protection per DIN 40050:

IP65 in mated condition. “H” version

Construction

Connector body	Glass filled thermoplast UL94-V0
Colour:	black
	Selectively nickel plated
Coupling ring:	Nickel plated brass
Tri-lock pins:	Stainless steel
Coupling spring:	Spring steel
Shielded backshell :	Nickel plated Aluminium alloy.

Contact accommodation

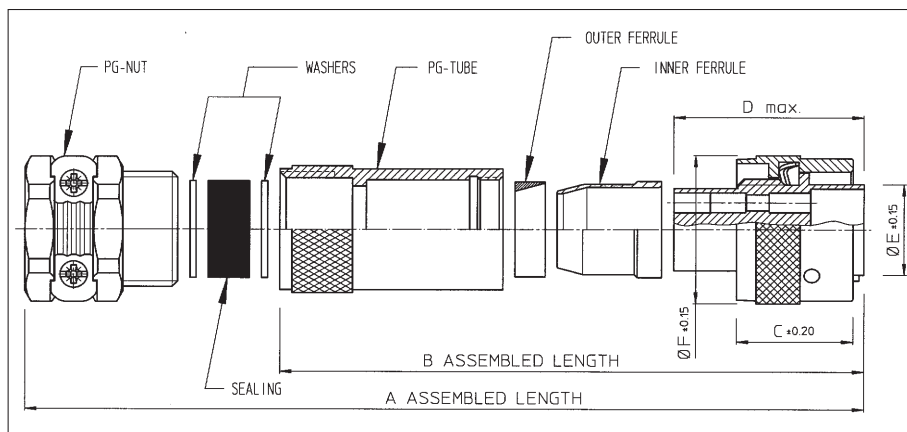
- “UTGS” connectors accept Trim-Trio crimp-type removable snap-lock contacts (see contact section)
- Contacts to be ordered separately.



How to order

Connector family:	UTGS	0	PG	14	12	P	H	-	N	B
	UTGS	6		14	12	S		-	N	-
Body variation:	0 : Wall mounting receptacle 6 : Cable plug 1 : Free hanging receptacle									
Shielded backshell:										
Shell size:										
Insert arrangement:										
Type of contacts:	P : Pin contacts S : Socket contacts									
Application:	No letter : Standard version H : Water protected version (only receptacle)									
Design variation:	No letter : Moulded-in contact marking (standard version) others : Special versions									
Plating:	N : Nickel plated									
Packing:	No letter: Standard version: Each connector individually packed in plastic bag B: Bulk packing per qty of 100 pcs									

Shielded cable plug for pin contacts (UTGS6PG- - - -PN)

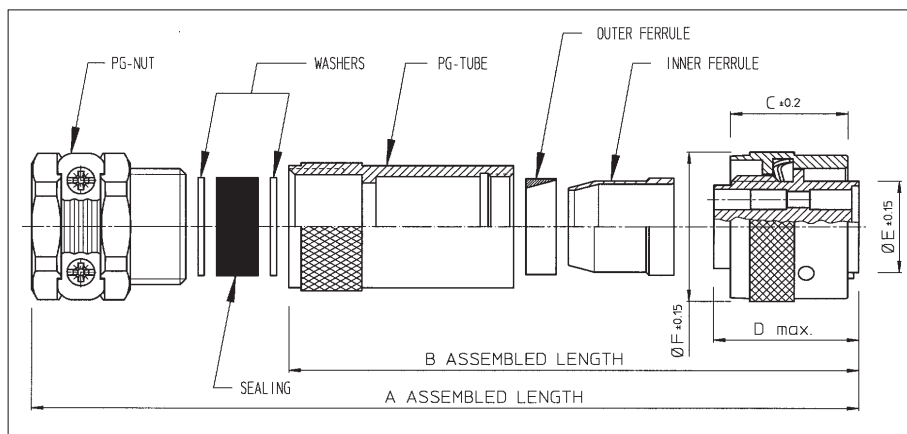


Part number	Shell size	A	B	C ±0.2	D Max.	Ø E ±0.15	F ±0.15	Max cable Ø
UTGS6PG104PN / UTGS6PG103PNVDE	10	70/74.1	52.2/56.3	19.1	31.8	12.2	21.6	11.0
UTGS6PG128PN	12	74	53.2			15.1	24.8	13.5
UTGS6PG1412PN	14	81	58.2			18.3	28.0	14.5
UTGS6PG1619PN	16	84	61.2			21.5	31.2	16.5
UTGS6PG1823PN / UTGS6PG187PNVDEU	18	88/94.4	65.2/71.6		31.8/33.0	24.0	34.3	16.5
UTGS6PG2028PN / UTGS6PG2020PN	20	101	70.9		31.8/35.3	27.2	37.5	22.0
UTGS6PG2235PN	22	107	76.9		31.8	30.4	40.7	22.0
UTGS6PG2448PN	24	120	81.9			33.5	43.9	29.5

- For ass'y procedure see shielded connectors section

For bulk packing (qty 100 pcs) add B at the end of cat. Nr. eg. UTGS6PG1412PNB

Shielded cable plug for socket contacts (UTGS6PG- - - -SN)

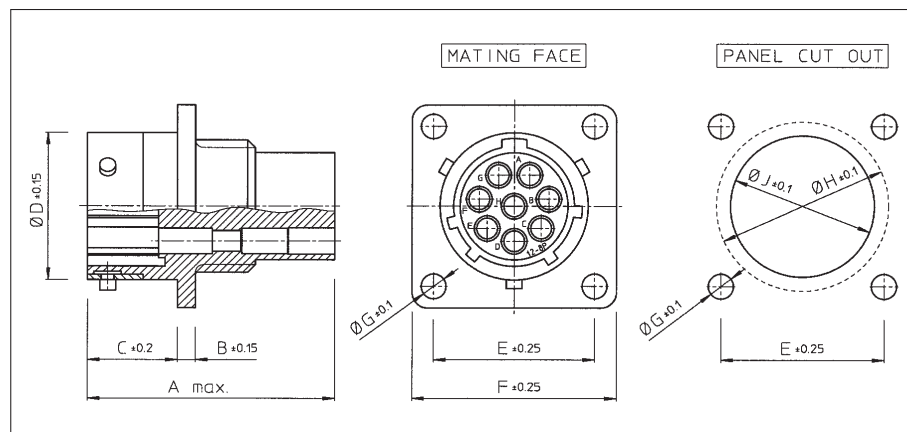


Part number	Shell size	A	B	C ±0.2	D Max.	Ø E ±0.15	F ±0.15	Max cable Ø
UTGS6PG104SN / UTGS6PG103SNVDE	10	70 / 74.1	52.2 / 56.3	19.1	23.9/26.8	12.2	21.6	11.0
UTGS6PG128SN	12	74	53.2		23.9	15.1	24.8	13.5
UTGS6PG1412SN	14	81	58.2			18.3	28.0	14.5
UTGS6PG1619SN	16	84	61.2			21.5	31.2	16.5
UTGS6PG1823SN / UTGS6PG187SNVDEU	18	88 / 94.4	65.2 / 71.6		23.9/29.0	24.0	34.3	16.5
UTGS6PG2028SN / UTGS6PG2020SN	20	101	70.9		24.9	27.2	37.5	22.0
UTGS6PG2235SN	22	107	76.9			30.4	40.7	22.0
UTGS6PG2448SN	24	120	81.9		26.2	33.5	43.9	29.5

- For ass'y procedure see shielded connectors section

For bulk packing (qty 100 pcs) add B at the end of cat. Nr. eg. UTGS6PG1412SNB

Shielded wall mounting receptacle for pin contacts (UTGS0- - - -PN)

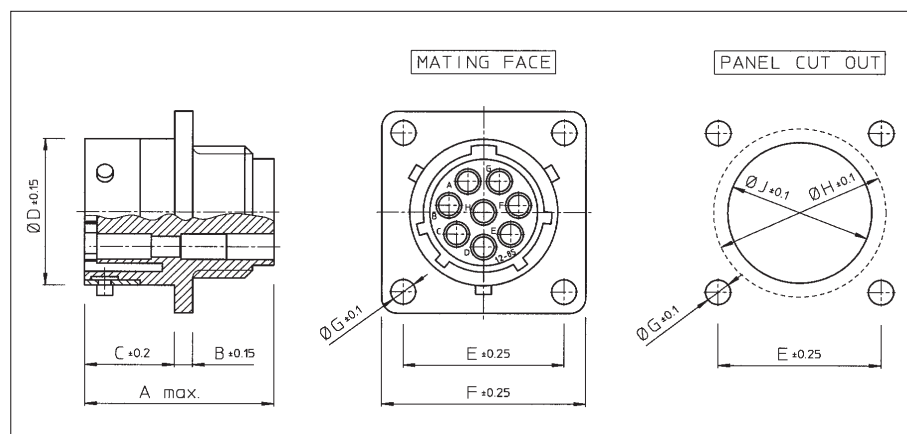


Part number	Shell size	A max.	B ± 0.15	C ± 0.2	$\varnothing D \pm 0.15$	E ± 0.25	F ± 0.25	$\varnothing G \pm 0.1$	$\varnothing H \pm 0.1$	$\varnothing J \pm 0.1$
UTGS0104PN / UTGS0103PNVDE	10	31.7	2.3	11.3	15.0	18.3	23.8	3.2	17.3	15.1
UTGS0128PN	12				19.0	20.6	26.2		21.8	18.2
UTGS01412PN	14				22.2	23.0	28.6		25.0	21.4
UTGS01619PN	16				25.3	24.6	31.0		28.1	24.6
UTGS01823PN / UTGS0187PNVDEU	18	31.7/34.0	2.5	11.3/17.9	28.5	27.0	33.3		31.3	27.8
UTGS02028PN / UTGS02020PN	20	33.3/34.3		14.5	31.7	29.4	36.5		34.5	30.9
UTGS02235PN	22	33.3	3.5	15.3	34.9	31.8	39.7	3.9	37.7	34.1
UTGS02448PN	24				38.0	34.9	42.9		40.9	37.3

For waterprotected version add "H" behind "P" e.g. UTGS01412PHN

For bulk packing (qty 100 pcs) add B at the end of cat. Nr. eg. UTGS01412PNB

Shielded wall mounting receptacle for socket contacts (UTGS0- - - -SN)

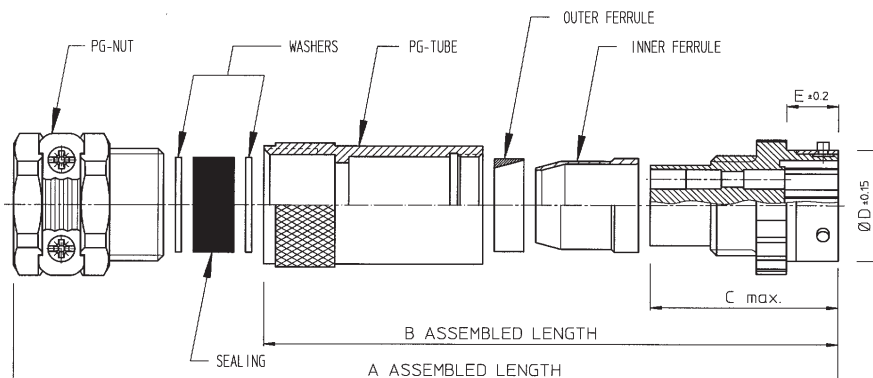


Part number	Shell size	A max.	B ±0.15	C ±0.2	Ø D ±0.15	E ±0.25	F ±0.25	Ø G ±0.1	Ø H ±0.1	Ø J ±0.1
UTGS0104SN / UTGS0103SNVDE	10	24.3/27.6	2.3	11.3	15.0	18.3	23.8	3.2	17.3	15.1
UTGS0128SN	12	24.3			19.0	20.6	26.2		21.8	18.2
UTGS01412SN	14				22.2	23.0	28.6		25.0	21.4
UTGS01619SN	16				25.3	24.6	31.0		28.1	24.6
UTGS01823SN / UTGS0187SNVDEU	18	24.3/30.4	2.5	11.3/17.9	28.5	27.0	33.3		31.3	27.8
UTGS02028SN / UTGS02020SN	20	27.0		3.5	14.5	31.7	29.4		36.5	34.5
UTGS02235SN	22	28.0	34.9		31.8	39.7	37.7	34.1		
UTGS02448SN	24	30.4	15.3		38.0	34.9	42.9	3.9	40.9	37.3

For waterprotected version add "H" behind "P" e.g. UTGS01412SHN

For bulk packing (qty 100 pcs) add B at the end of cat. Nr. eg. UTGS01412SNB

Shielded free hanging receptacle for pin contacts (UTGS1PG- - - -PN)

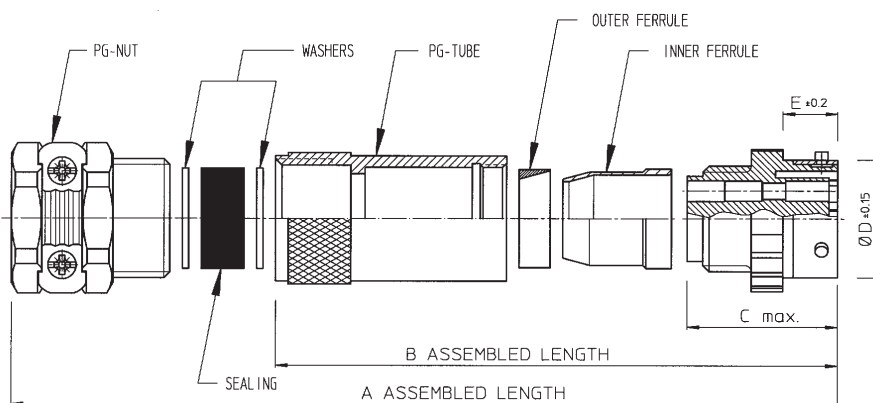


Part number	Shell size	A	B	C max	D ±0.15	Ø E ±0.2
UTGS1PG104PN / UTGS1PG103PNVDE	10	70 / 74.1	52.2 / 56.3	31.7	15.0	8.65
UTGS1PG128PN	12	74	53.2		19.0	
UTGS1PG1412PN	14	81	58.2		22.2	
UTGS1PG1619PN	16	84	61.2		25.3	
UTGS1PG1823PN / UTGS1PG187PNVDEU	18	88 / 94.4	65.2 / 71.6	31.7 / 34.0	28.5	8.65 / 15.35
UTGS1PG2028PN / UTGS1PG2020PN	20	101	70.9	33.3	31.7	12.05
UTGS1PG2235PN	22	107	76.9		34.9	
UTGS1PG2448PN	24	120	81.9		38.0	13.85

For waterprotected version add "H" behind "P" e.g. UTGS1PG1412PHN

For bulk packing (qty 100 pcs) add B at the end of cat. Nr. eg. UTGS1PG1412PNB

Shielded free hanging receptacle for socket contacts (UTGS1PG- - - -SN)



Part number	Shell size	A	B	C max	D ±0.15	Ø E ±0.2
UTGS1PG104SN / UTGS1PG103SNVDE	10	70 / 74.1	52.2 / 56.3	24.3 / 27.6	15.0	8.65
UTGS1PG128SN	12	74	53.2	24.3	19.0	
UTGS1PG1412SN	14	81	58.2		22.2	
UTGS1PG1619SN	16	84	61.2		25.3	
UTGS1PG1823SN / UTGS1PG187SNVDEU	18	88 / 94.4	65.2 / 71.6	24.3 / 30.4	28.5	8.65 / 15.35
UTGS1PG2028SN / UTGS1PG2020SN	20	101	70.9	25.9	31.7	12.05
UTGS1PG2235SN	22	107	76.9		34.9	
UTGS1PG2448SN	24	120	81.9		38.0	13.85

For waterprotected version add "H" behind "P" e.g. UTGS1PG1412SHN

For bulk packing (qty 100 pcs) add B at the end of cat. Nr. eg. UTGS1PG1412SNB