



High-Performance Connectors
Designed for Harsh-Environment Motorsport



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- United States





DEUTSCH AUTOSPORT INTERCONNECTION SOLUTIONS

CONSISTENTLY LEADING THE WAY IN RESEARCH, DEVELOPMENT, INNOVATION, RELIABILITY & SERVICE

TE Connectivity (TE) with its DEUTSCH Autosport connection systems offers one of the best expertises in the design and manufacture of interconnection solutions for harsh environments. With over 40-years of international experience, DEUTSCH products are reliable in the Aerospace, Defence, Industrial Transportation and Autosport markets.

In the early 1990's DEUTSCH products were the first to pioneer a range of interconnection solutions specifically for the Autosport industry, enabling them to reach their position as one of the market's leaders.

The AS Series and AS Micro Series radically changed the face of autosport connection technology. Following the success of these products, TE's DEUTSCH Autosport team was established to attend to the growing needs of the autosport teams and harness houses.

A knowledgeable and experienced team of experts, supported with considerable investment in research and backed by an international distribution network, ensures TE's DEUTSCH autosport range of connectors continue to meet the constantly evolving technical challenges faced in this dynamic and demanding industry.

Specified across the entire autosport industry, TE's DEUTSCH products have been recognised many times with world champions across practically every disciplines choosing TE's DEUTSCH Autosport connectors as some of the most reliable, light weight and technologically advanced products available.

TE Components...TE Technology...TE Know-how...
AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem | Rochester | DEUTSCH
SEACON Phoenix | LL ROWE | Phoenix Optix | AFP | SEACON

Empower Engineers to Solve Problems, Moving the World Forward.

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Product Overview

TE's DEUTSCH original Autosport connector - the AS Series connector - continues to set the standard for the autosport industry. Designed by TE's DEUTSCH Autosport engineers for the 93/94 season, the AS Series connector has been used by race winning teams throughout autosport ever since.

TE Connectivity (TE) with its DEUTSCH connectors continues to push the boundaries of technology and innovation, consistently driving the market forwards with new products that match the ever increasing demands of lower weight, smaller size and better performance. All DEUTSCH connectors are thermal cycle tested and environmentally sealed to IP67 when mated*.

- Compact design/minimum space envelope
- · Interfacial & wire sealing
- Boot termination feature
- PCB option
- Universal option available (not ASC)
- Standard crimp tooling
- Suitable for blind mating
- Visual indication of keyway orientation of connector

- Scoop-proof interface
- Shell-to-shell grounding (not ASC)
- Positive locking coupling mechanism
- No need for backshells or boot termination
- In-line and two hole mounting styles (not ASC)
- Surface finishing options
- · Keyway options.

*1 metre for 30 minutes minimum

MATERIALS

Shell / coupling ring: High strength aluminium alloy with a conductive black zinc finish**

Contacts: Gold plated crimp contacts*

Insulators: Thermoplastic

Interface / wire seals:

Fluorinated silicone

*Except hermetic connectors

**Except hermetic and ASC connectors

VIBRATION

All connectors undergo three rigorous tests for vibration and all meet or exceed the following:

Dynamic test - random on random 60g RMS in 3 axis.

Endurance test - random 57g RMS in 2 axis for 8 hours each axis.

Sinusoidal resonance to over 75g.

FLUID RESISTANCE

In most autosports applications when exposed to most fluids the connectors showed no damage.

AS MICRO XTRALITE HE (ASX) SERIES CONNECTORS

The AS Micro Xtra^{Lite} HE connectors offer teams TE's smallest, lightest package for three, five and six wires. The AS Micro Xtra^{Lite} HE 6-way is the shortest, lightest AS connector for six wires, offering a solution where space is at its most restrictive. Refer to pages 6,8 and 10 for technical specifications.

AS MICRO ULTRALITE HE (ASU) SERIES CONNECTORS

The AS Micro Ultra^{Lite} HE connectors offer the teams a small and lightweight connector for 3 and 5 wires. The AS Micro Ultra^{Lite} HE connectors are a perfect solution where space and weight are restricted. Refer to page 12 for technical specifications.

AS MICROLITE HE (ASL) SERIES CONNECTORS

The Micro^{Lite} HE connector is in excess of 30% lighter than the original AS Micro HE connector and approximately 8mm shorter, whilst still retaining all the critical features including the renowned TE's DEUTSCH #23 contacts. The AS Micro^{Lite} HE connector is fully intermateable with the AS Micro HE connector. Refer to page 14 for technical specifications.

AS RALLY MICRO (ASR) SERIES CONNECTORS

An evolution of the AS Micro^{Lite} HE connector, the AS Rally Micro connector has been created with direct input from World Rally Teams. A wider coupling ring and more knurling enables mechanics wearing gloves to get a better grip when connecting and disconnecting in severe environments (snow, ice and mud). Refer to page 16 for technical specifications.

AS COMPOSITE (ASC) SERIES CONNECTORS

Made as one unit in a rugged thermoplastic housing, the AS Composite connector is extremely resistant to vibration. Refer to page 18 for technical specifications.

AS MINI SERIES CONNECTORS

The AS Mini Series connector bridges the gap between the existing standard AS Series (Size 8) and the AS Micro range (Size 6), offering 6-way and 3-way connectors in three shell styles. Refer to page 20 for technical specifications.

AS SERIES CONNECTORS

Developed by TE's DEUTSCH engineers from the MIL-C-38999 Series 1.5 (Eurofighter connector), the AS Series connector was the first range of high specification connectors designed by TE's DEUTSCH Autosport specifically for the autosport market. The AS Series connector offers weight and space saving over standard military designs and is available a wide variety of options, with medium and high density arrangements up to 128 ways with four shell styles, and five keyway orientations. Refer to page 22 for technical specifications.

AS DOUBLE DENSITY (ASDD) SERIES CONNECTORS

Next generation connector technology developed by TE's DEUTSCH Autosport, which brings together high density and high performance, inline with racing teams using smaller wire sizes. The AS Double Density range allows almost double the number of contacts to be packaged in the same shell as compared to the standard AS Series connectors. Refer to page 28 for technical specifications.

AS MICRO HE HERMETIC SERIES CONNECTORS

A unique hermetic receptacle developed by TE's DEUTSCH Autosport for transducers, sensors and instrumentation where space and performance is critical. The AS Micro HE Hermetic Series connector offers high density, harsh environment sealing as standard and is one of the most compact products currently available on the market. Mounting and ease of termination has also been a major consideration with PCB style contacts and weld mounting (316 St) offered as standard. Refer to page 30 for technical specifications.

AS MICRO HERMETIC (JAM-NUT) SERIES CONNECTORS

An evolution of the AS Micro HE Hermetic connectors featuring a jam-nut, this connector is ideally suited to fuel tank applications. Refer to page 31 for technical specifications.

AS HERMETIC FUEL TANK SERIES CONNECTORS

A range of hermetically sealed connectors designed specifically for autosport fuel tank applications. AS Hermetic Fuel Tank connector provides a high degree of performance where normal resilient connectors may fail, by using glass to metal sealing in place of traditional plastic and elastomer inserts. Connectors are supplied with a fuel immersible specification o-ring to provide a high standard of sealing between the connector and bulkhead. Refer to page 32 for technical specifications.

AS MICROLITE HE FUEL IMMERSIBLE SERIES CONNECTORS

An evolution of the AS Micro^{Lite} connector, the AS Micro^{Lite} Fuel Immersible connector contains a DEUTSCH designed fuel resistant elastomer insert which offers excellent resistance to racing fuel. An upgraded hermetic version, including an inline receptacle is also available. Refer to page 34 for technical specifications.

AS HEAVY DUTY (ASHD) SERIES CONNECTORS

A range of power connectors designed specifically for Autosport high current applications. The AS Heavy Duty connectors are ideally suited to battery, alternator, starter motor and energy recovery system applications. Specially designed low insertion / extraction force contacts ensure maximum performance in extreme conditions. Refer to page 36 for technical specifications.

FIBRE OPTICS SERIES CONNECTORS

TE's DEUTSCH Autosport connectors also offer Fibre Optic solutions. Refer to page 43 at the back of this brochure for more information.



AS Micro Xtra^{LITE} HE 3 Way Connector



Ultra compact design (Size 2 shell)

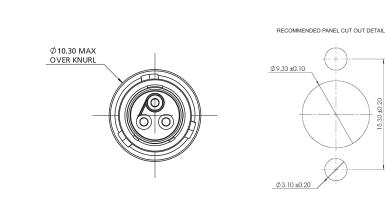
- Minimum space envelope
- 3 Size #22 contacts
- PCB option
- Smaller and lighter than AS Ultra^{LITE} (ASU) series connectors

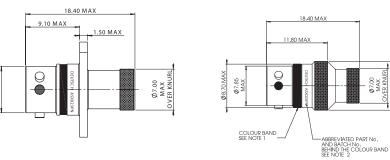
Easy installation

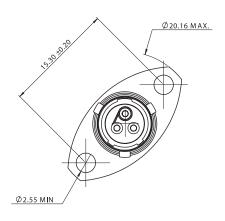
- Positive locking coupling mechanism
- Suitable for blind mating
- Scoop proof interface
- Boot termination feature

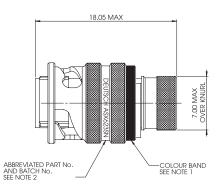
Built to withstand harsh environments

- Conductive black zinc finish
- Interfacial wire sealing
- Bonded and sealed insert to help prevent moisture ingress









Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	engagement Withstanding		Wire Sealing (mm)		Temperature (°C)*	
Size	Size	(1111)	& disengagement)	Voltage (VAC)	Orientations	Min.	Max.	Min.	Max.
22	2	5	500	1500	6	0.76	1.37	-55	+170

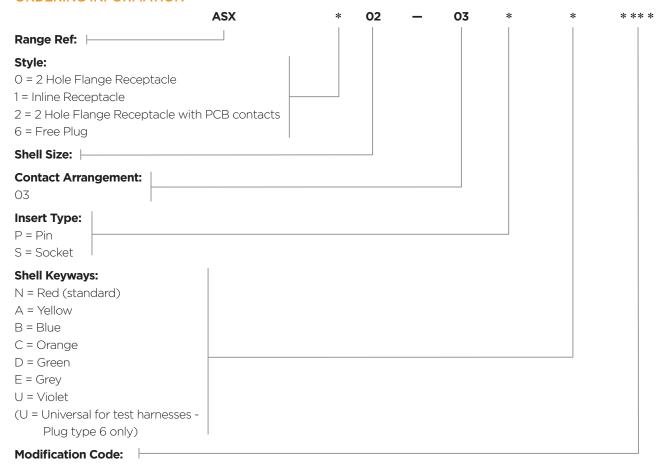
^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

Contact Autosport Technical Support for more detail of specific products to meet your sealed electrical connection requirements.

CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	PCB Socket	PCB Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
22	604984	604946-31	611282	611254-31	600300-22	M81969/14-01	M22520/2-01	605464	605463

ORDERING INFORMATION



Part No	ımber		Boot Inf	ormation
Nut Plate	Gasket		Straight	90 degree
ATM396-2	GV-2	Raychem	203W301	223W601
		Hellermann	1037-4-G	1182-4-G

Pro	Сар
Receptacle	Plug
611545	611546

AS Micro XtraLITE HE 5 Way Connector



Ultra compact design (size 2 shell)

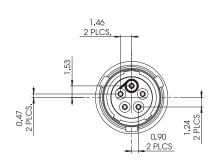
- Minimum space envelope
- 5 Size #24 contacts
- PCB option
- Smaller and lighter than AS Ultra^{LITE} (ASU) series connectors

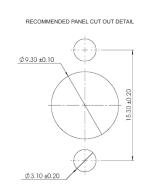
Easy installation

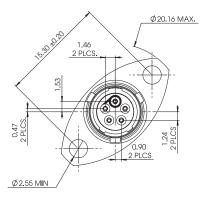
- Positive locking coupling mechanism
- Suitable for blind mating
- Scoop proof interface
- Boot termination feature

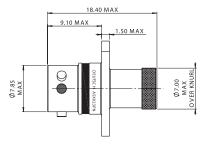
Built to withstand harsh environments

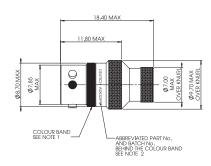
- Conductive black zinc finish
- Interfacial wire sealing
- Bonded and sealed insert to help prevent moisture ingress

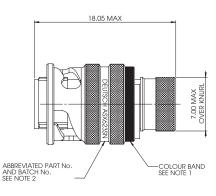












Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	Dielectric Withstanding	No. of Keyway Orientations		ealing m)	Temperature (°C)*	
SIEC	SILC	(Allips)	& disengagement)	Voltage (VAC)	Officilations	Min.	Max.	Min.	Max.
24	2	3	500	1000	6	0.56	1.02	-55	+170

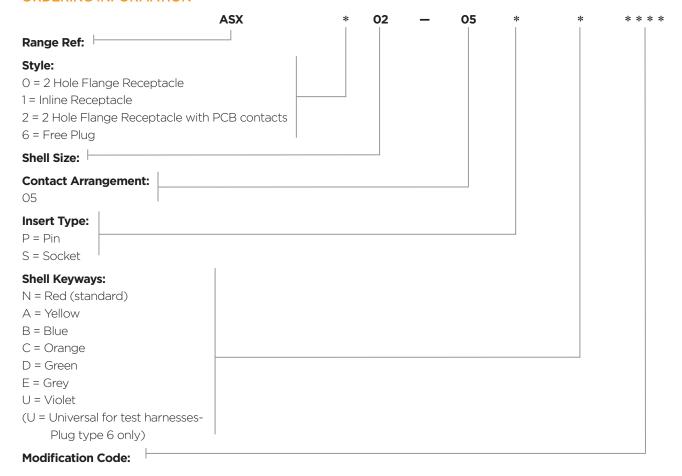
^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

Contact Autosport Technical Support for more detail of specific products to meet your sealed electrical connection requirements.

CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	PCB Socket	PCB Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
24	605704	605705-31	611292	611661-31	600300-24	605837	M22520/2-01	605840	605839

ORDERING INFORMATION



Part N	lumber
Nut Plate	Gasket
ATM396-2	GV-2

	Boot Information				
-	Straight	90 degree			
Raychem	203W301-25-G02	223W601			
Hellermann	1037-4-G	1182-4-G			

o Cap
Plug
611546

AS Micro Xtra^{LITE} HE 6 Way Connector







Ultra compact design (size 2 shell)

- Minimum space envelope
- 6 Size #24 contacts
- PCB option
- Smaller and lighter than AS Ultra^{LITE}
 (ASU) series connectors

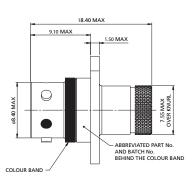
Easy installation

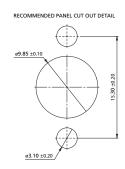
- Positive locking coupling mechanism
- Suitable for blind mating
- Scoop proof interface
- · Boot termination feature

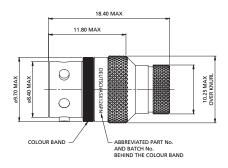
Built to withstand harsh environments

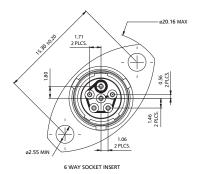
- Conductive black zinc finish
- Interfacial wire sealing
- Gold-plated crimp contacts
- Bonded and sealed insert to help prevent moisture ingress

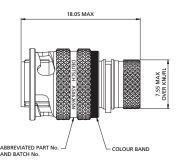












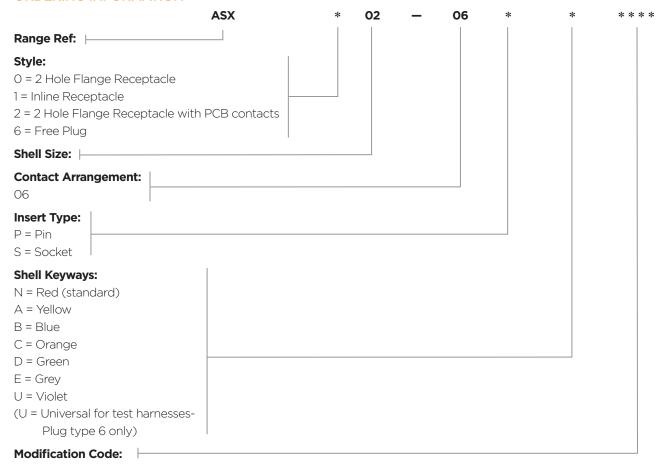
No. of Ways	Contact Size	Max. Current (Amps)	Durability (cycles of engagement	Dielectric Withstanding	No. of Keyway Orientations		Sealing nm)	Temperature (°C)*	
- Hujs	SIZC	(runps)	& disengagement)	Voltage (VAC)	Officilitations	Min.	Max.	Min.	Max.
6	24	3	500	1000	6	0.56	1.02	-55	+170

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	PCB Socket	PCB Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
24	605704	605705-31	611292	611661-31	600300-24	605837	M22520/2-01	605840	605839

ORDERING INFORMATION



ACCESSORIES PART NUMBERS

Part Nu	ımber
Nut Plate	Gasket
ATM396-2	GV-2
Pro Cap	

Plug

611637

Receptacle

611636

	Boot Information				
-	Straight	90 degree			
Raychem	203W301-25-G02	223W601			
Hellermann	1037-4-G	1182-4-G			

^{**} Current leakage less than 2 milliAmps at (VAC)

AS Ultra^{LITE} HE & AS Micro Ultra^{LITE} HE (ASU) Series Connectors



Unique DEUTSCH designed product

- Smaller alternative to ASL range
- Cable accommodation 24-30 AWG (5 way), 22-28 AWG (3 way)
- 17% smaller coupling ring than ASL
- 30% lighter than ASL (mated pair)

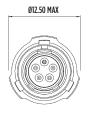
2 different contact options

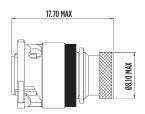
- 5x AWG24 contacts
- 3x AWG22 contacts

Built to withstand harsh environments

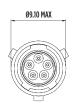
- Conductive black zinc finish
- · Interfacial wire sealing
- Bonded and sealed insert to help prevent moisture ingress

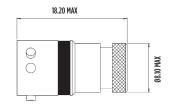
PLUG - TYPE 6



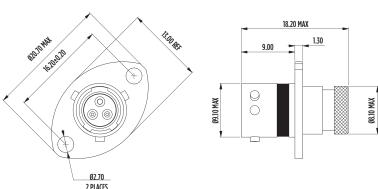


INLINE RECEPTACLE - TYPE 1

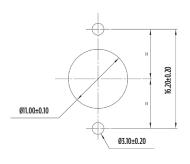




RECEPTACLE - TYPE 0



PANEL CUT-OUT DETAIL



No. of Ways	Contact Size	ontact Shell Max. Current		Dielectric Withstanding	No. of Keyway Orientations	' ' (mm)		Temperature (°C)*		
	5.25		(& disengagement)	Voltage (VAC)		Min.	Max.	Min.	Max.
3	22	3	5	500	1500		0.76	1.37	-55	+170
5	24	3	3		1000	b	0.56	1.02		±1/U

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	PCB Socket	PCB Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
22	604984	604946-31	605681	605679-31	600300-22	M81969/14-01	M22520/2-01 -	605464	605463
24	605704	605705-31	605902	605900-31	600300-24	605837	11122320/2-01 -	605840	605839

ORDERING INFORMATION

		ASU	*	03	_	**	*	*	***
Range Ref:									
Style: 0 = 2 Hole Flang 1 = Inline Recepta 2 = 2 Hole Flange 6 = Free Plug		PCB contacts							
Shell Size:									
Contact Arrange	ement:								
Insert Type: P = Pin S = Socket									
Shell Keyways: N = Red (standar A = Yellow B = Blue C = Orange D = Green	rd)								
E = Grey U = Violet U = (U = Universal Plug type 6 d	al for test harnesse only)	S-							
Modification Co	do:								

Pro (Сар	Nut Plate	Gasket
Receptacle	Plug	•	
605684	605687	ATM396-4	GV-3

	Boot Information				
_	Straight	90 degree			
Raychem	204W221-25-G03	224W221-25-G03			
Hellermann	1037-4-G	1182-4-G			

^{**} Current leakage less than 2 milliAmps at (VAC)

AS Micro^{LITE} HE (ASL) Series Connectors







Compact design (size 6 shell)

- Designed for sensor applications
- 5 Size #23 contacts
- PCB option

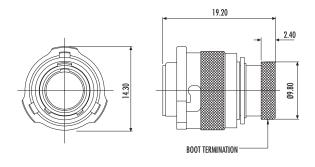
Easy installation

- Positive locking coupling mechanism
- Suitable for blind mating
- Scoop proof interface
- Boot termination feature

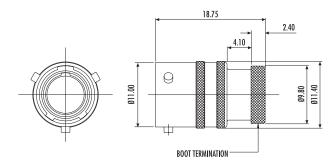
Built to withstand harsh environments

- Conductive black zinc finish
- Interfacial wire sealing
- Bonded and sealed insert to help prevent moisture ingress

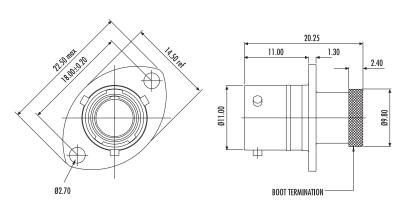
PLUG - TYPE 6



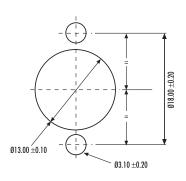
INLINE RECEPTACLE - TYPE 1



RECEPTACLE - TYPE 0



PANEL CUT-OUT DETAIL



All dimensions are in mm unless otherwise stated.

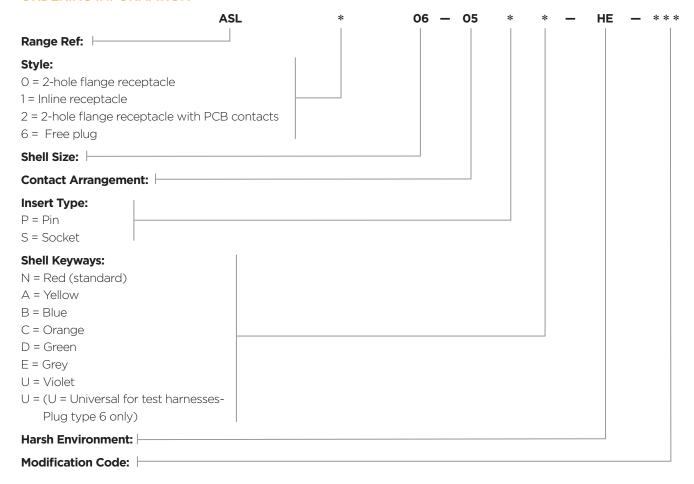
No. of Ways	Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	Dielectric Withstanding	No. of Keyway Orientations	Wire Sealing (mm)		Temperature (°C)*	
ways	Size	Size	(Allips)	& disengagement)	Voltage (VAC)	Officiations	Min.	Max.	Min.	Max.
5	23	6	3	500	1000	6	0.60	1.37	-55	+170

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	PCB Socket	PCB Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
23	604935	604927-31	604992-HE	604990-31	600300-22	M81969/14-01	M22520/2-01	604973	604972

ORDERING INFORMATION



Pro (Сар	Nut Plate	Gasket
Receptacle	Plug	•	
604029	604027	ATM396-6	GV-6

	Boot Information				
	Straight	90 degree			
Raychem	204W221	224W221			
Hellermann	1030-4-G	1181-4-G			

^{**} Current leakage less than 2 milliAmps at (VAC)

AS Rally Micro (ASR) Series Connectors



Compact design (size 6 shell)

- Specialised coupling ring for poor grip locations
- 5 Size #23 contacts

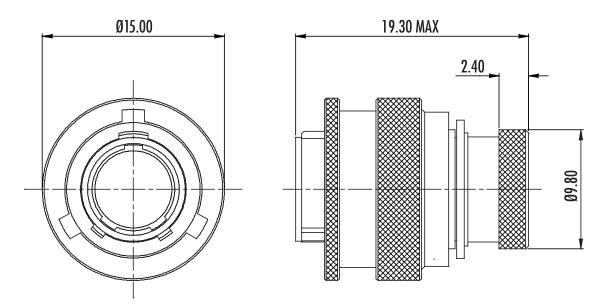
Easy installation

- Positive locking coupling mechanism
- Suitable for blind mating
- Scoop proof interface
- Boot termination feature

Built to withstand harsh environments

- Conductive black zinc finish
- Interfacial wire sealing
- Bonded and sealed insert to help prevent moisture ingress

PLUG - TYPE 6



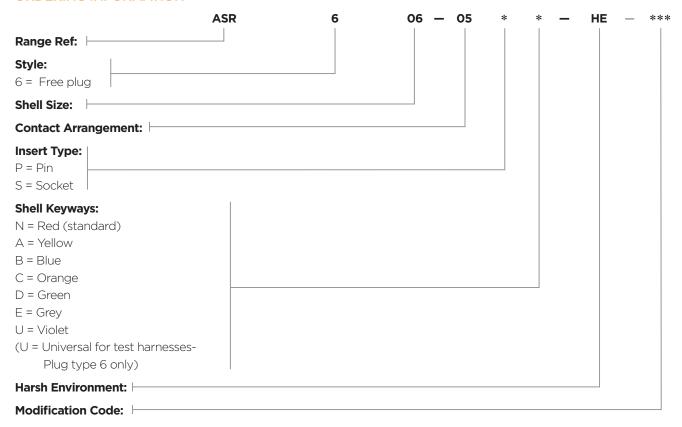
No. of Ways	Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	Dielectric Withstanding Voltage (VAC)	No. of Keyway Orientations		Wire Sealing (mm)		Temperature (°C)*	
ways	SILC	SILC	(//53)	& disengagement)		orientations	Min.	Max.	Min.	Max.	
5	23	6	3	500	1000	6	0.60	1.37	-55	+170	

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
23	604935	604927-31	600300-22	M81969/14-01	M22520/2-01	604973	604972

ORDERING INFORMATION



ASR = Enhanced Plug, for mating Receptacles see ASL page 14

Pro Cap		Boot Inf	ormation
604027		Straight	90 degree
	Raychem	204W221	224W221
	Hellermann	1030-4-G	1181-4-G

^{**} Current leakage less than 2 milliAmps at (VAC)

AS Composite (ASC) Series Connectors



Extremely resistant to vibration

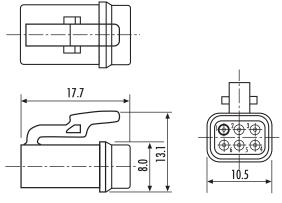
• Rugged thermoplastic housing

Specific installation options

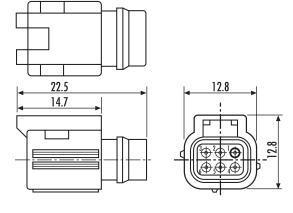
- Bondable with suitable adhesive in different configurations
- Cable-tie slot for security and mounting inline connections designed to fit 3.6mm wide cable-tie
- Close stacking possible with locating sides and bottom

MATED PAIR 29.0

PLUG -TYPE 6



RECEPTACLE - TYPE 1



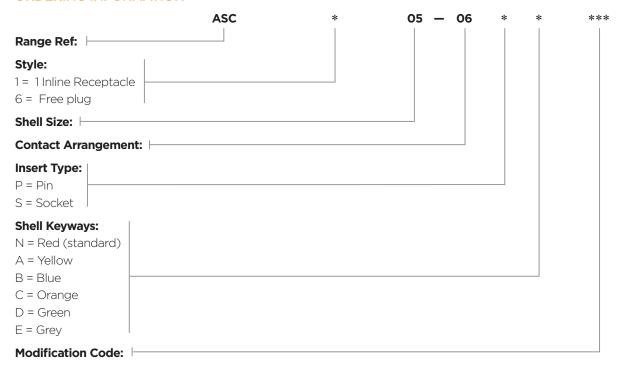
Contact Size		Max. Current (Amps)	Durability Dielectric (cycles of engagement Withstanding		No. of Keyway Orientations		Wire Sealing (mm)		Temperature (°C)*	
5120	5120	(111165)	& disengagement)	Voltage (VAC)	onentations	Min.	Max.	Min.	Max.	
22	6	5	300	1500	6	0.76	1.37	-55	+170	

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

CONTACTS & TOOLING PART NUMBERS

Socket	Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
604984	604946-31	600300-22	M81969/14-01	M22520/2-01	605464	605463

ORDERING INFORMATION



Part Numbers: Receptacle: ASC105-06SN Plug: ASC605-06PN

Please note: Plug only available in pin arrangement, Receptacle only available in socket arrangement.

	Boot Information		
-	Straight	90 degree	
Raychem	204W221	224W221	
Hellermann	1030-4-G	1181-4-G	

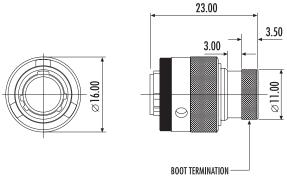
^{**} Current leakage less than 2 milliAmps at (VAC)

AS Mini Series Connectors

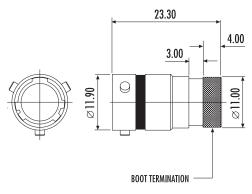


- Size 7 shell Smaller option to Mil size 8
- 2 planform options 3 or 6 contact options
- Integral screen termination Ideal for braided cable installations
- Cable accommodation 20, 22, 24 and 26 AWG
- Offers size 8 insert arrangement in smaller shell

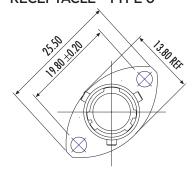
PLUG - TYPE 6

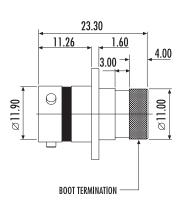


INLINE RECEPTACLE - TYPE 1

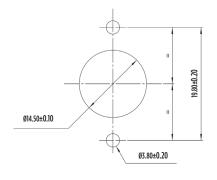


RECEPTACLE - TYPE 0





PANEL CUT-OUT DETAIL



INSERT ARRANGEMENTS





07-98 Size 7 3#20

07-35 Size 7 6#22

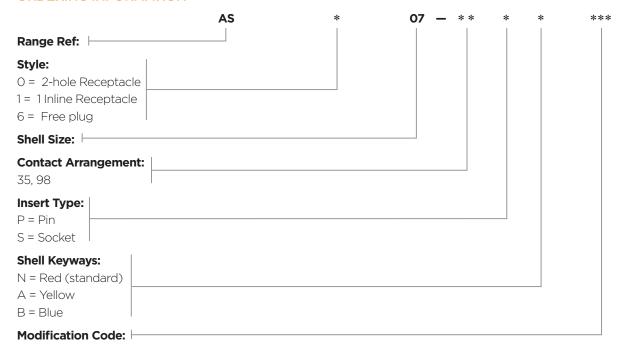
Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	Dielectric Withstanding	No. of Keyway Orientations	Wire S (m	ealing m)		erature C)*
	5.25	(& disengagement)	Voltage (VAC)		Min.	Max.	Min.	Max.
22	7	5	500 -	1500	7	0.76	1.37	EE	+170
20	1	7.5	500 -	1800	- 5	1.02	2.11	-55	+1/0

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
22	604887	38941-22	600300-22	M81969/14-01	- M22520/2-01	605000	M22520/2-09
20	6862-201-20278	38941-20	600300-20	M81969/14-10	11122320/2-01	M22520/2-10	M22520/2-10

ORDERING INFORMATION



Pro C	Pro Cap		Gasket			Boot Info	ormation
Receptacle	Plug	_		Straight		90 degree	
AS907	AS807	ATM396-7	GV-7		Raychem	202K121	222K121
				-	Hellermann	152-42-G	1152-4-G

^{**} Current leakage less than 2 milliAmps at (VAC)

AS Series Connectors



Large application choices

- Filter, hermetic & fibre optic options available
 Shell sizes 8 - 24
- Intermateable with existing LN29729 (Mil-C 38999 Series 1.5) and Pan 6433-2 style connectors
- High density arrangements

Built to withstand harsh environments

- Conductive black zinc finish
- Interfacial wire sealing
- Bonded and sealed insert to help prevent moisture ingress

GENERAL SPECIFICATION

Contact	Shell	Max. Current	Durability(cycles of engagement	No. of Keyway Orientations	Wire Seal	Wire Sealing (mm)		Temperature (°C)*	
Size	Size	(Amps)	& disengagement)	Orientations	Min.	Max.	Min.	Max.	
22	- 8 to 24 -	5		Е	0.76	1.37			
20		7.5	500	only 7 for shall size 0	1.02	2.11	-55	+175	
16	- see below -	20		only 3 for shell size 8	1.65	2.77			

^{*}The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

Chall Cina	Contact	Number of Contacts		cts	Dating **	
Shell Size	Arrangement	ngement Size 22 D Size 20		Size 16	- Rating **	
08	-98		3			
08	-35	6			М	
10	-98		6			
10	-35	13			М	
10	-02			2		
10	-03			3		
12	-04			4		
12	-98		10			
12	-35	22			М	
14	-97		8	4		
14	-19		19			
14	-35	37			М	
16	-08			8		
16	-26		26			
16	-35	55			М	

Chall Cias	Contact	Contact Number of Contacts					
Shell Size	Arrangement	Size 22 D Size 20		Size 16	Rating **		
18	-32		32		I		
18	-35	66			М		
20	-16			16	1		
20	-39		37	2	- 1		
20	-41		41		- 1		
20	-35	79			М		
22	-21			21	I		
22	-55		55		- 1		
22	-35	100			М		
24	-29			29	1		
24	-61		61		- 1		
24	-35	128			М		

^{**}Ratings M&I define Dielectric Withstand Voltage ratings as follows:

Please note: The contact/insert arrangements shown above are standard layouts. Other combinations of shell sizes and insert arrangements may be available. For details contact the TE Technical Support.

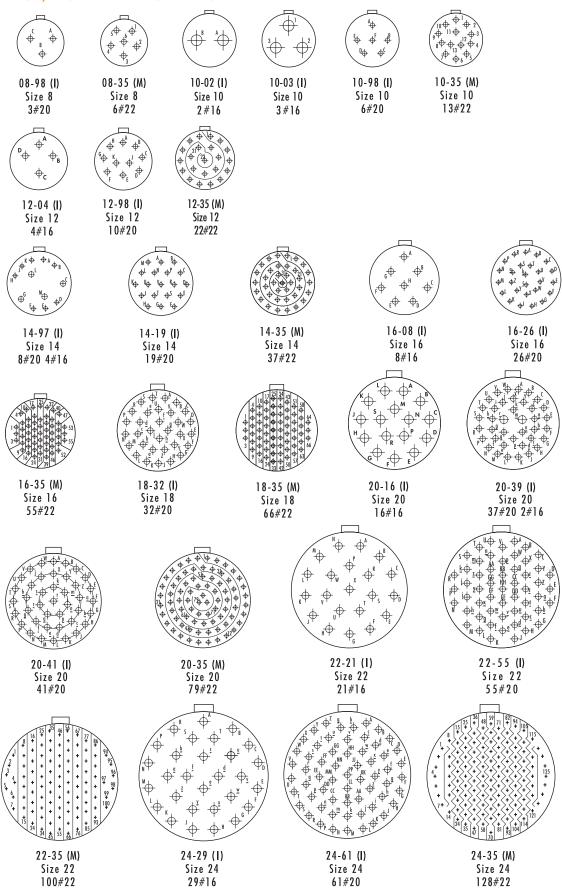
CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
22	38943-22	38941-22	600300-22	M81969/14-01	M22520/2-01	M22520/2-07	M22520/2-09
20	38943-20	38941-20	600300-20	M81969/14-10	M22520/2-01	M22520/2-10	M22520/2-10
16	38943-16	38941-16	600300-16	M81969/14-03	M22520/1-01	M22520/1-04	M22520/1-04

Please note: PCB versions are ordered with AS2 prefixes and come with contacts.

I = 1800 volts rms, M = 1300 volts rms, current leakage less than 2 milliAmps.

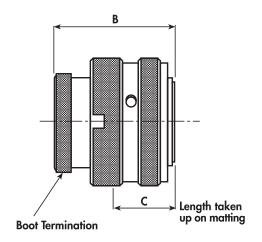
AS CONTACT / INSERT ARRANGEMENTS

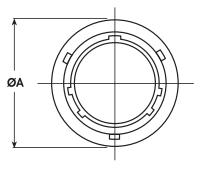


Ratings M&I define Dielectric Withstand Voltage ratings as follows: I = 1800 volts rms, M = 1300 volts rms, current leakage less than 2 milliamps.

AS Series Connectors continued

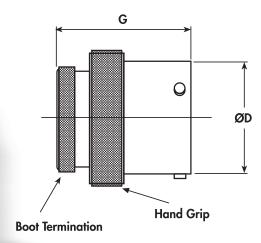
PLUG - TYPE 6

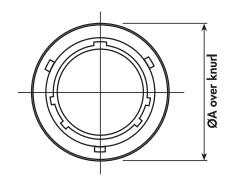




Shell Size	A Max.	B Max.	C Max.
80	17.70		
10	20.80		
12	25.20		
14	28.40		
16	31.50	33.50	15.00
18	34.80		
20	38.20		
22	41.30		
24	44.60		

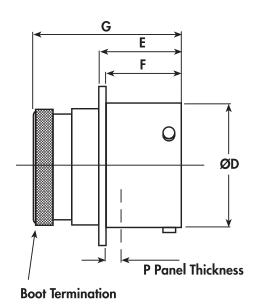
INLINE RECEPTACLE - TYPE 1

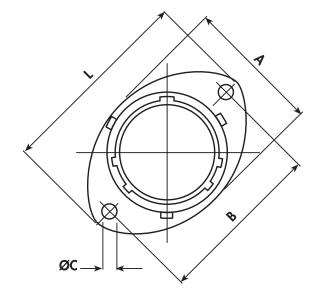




Shell Size	A Max.	D +0 -0.13	G Max.
08	17.70	12.00	
10	20.80	15.00	•
12	25.20	19.05	•
14	28.40	22.22	
16	31.50	25.40	33.50
18	34.80	28.57	•
20	38.20	31.75	
22	41.30	34.92	
24	44.60	38.10	•

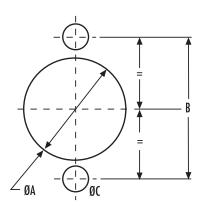
RECEPTACLE - TYPE 0





Shell Size	A REF	B ± 0.2	C + 0.1 – 0	D + 0 - 0.13	E + 0.15 – 0	F + 0 – 0.13	G Max.	L Max.	P Max.
08	16.50	21.35	_	12.00				27.20	
10	19.50	25.90	-	15.00			33.50	32.00	3.00
12	24.00	29.10		19.05		16.05		35.20	
14	27.00	32.50	- 720	22.22		10.03		38.40	
16	30.30	34.80	- 3.20	25.40	17.21			41.00	
18	33.70	38.20	_	28.57				44.70	
20	37.00	41.60	_	31.75				47.90	
22	40.00	44.95	_	34.92		15.29		51.10	
24	43.30	49.35	3.70	38.10				55.80	2.26

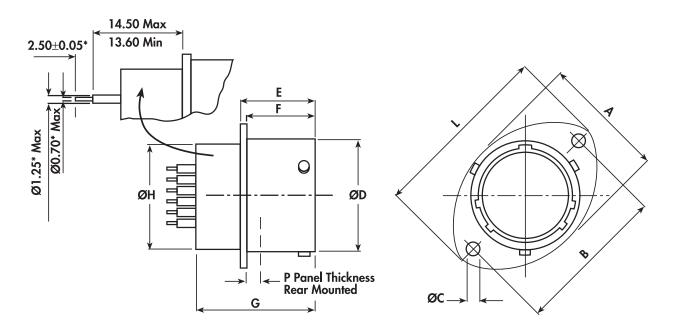
PANEL CUT-OUT DETAIL



	В	C
±0.10	±0.20	±0.20
14.50	21.40	
17.40	25.90	
21.90	29.10	
25.00	32.50	3.6
28.20	34.80	3.0
31.40	38.20	
34.60	41.60	
37.80	44.90	
41.00	49.30	4.10
	14.50 17.40 21.90 25.00 28.20 31.40 34.60 37.80	14.50 21.40 17.40 25.90 21.90 29.10 25.00 32.50 28.20 34.80 31.40 38.20 34.60 41.60 37.80 44.90

AS Series Connectors (continued)

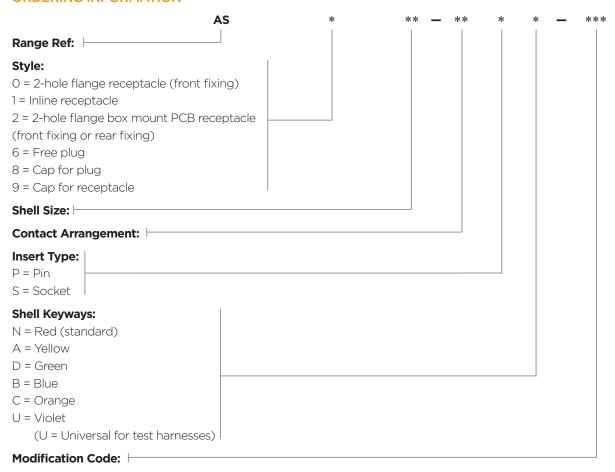
PCB BOX MOUNTING RECEPTACLE - TYPE 2



*Dimensions for 20 and 22 contacts shown are for standard parts. Other PCB contacts are available.

Shell Size	A Ref	B ± 0.2	C + 0.1 – 0	D + 0 - 0.13	E + 0.15 – 0	F + 0 - 0.13	G Max.	H Max.	L Max.	P Max.
08	16.50	21.40		12.00		,		11.10	27.20	
10	19.50	25.90		15.00				14.27	32.00	_
12	24.00	29.10		19.05		10.00		17.44	35.20	
14	27.00	32.50	7.7	22.22		16.05		20.60	38.40	7.00
16	30.30	34.80	3.2	25.40	17.21		27.65	23.77	41.00	3.00
18	33.70	38.20		28.57				26.94	44.70	
20	37.00	41.60	•	31.75	-		•	30.11	47.90	-
22	40.00	44.95	•	34.92	-	15.29		33.29	51.10	-
24	43.30	49.35	3.7	38.10	-			36.46	55.80	2.26

ORDERING INFORMATION

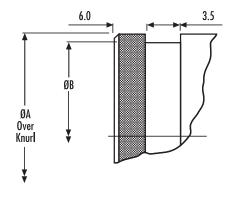


Please note: The size 8 shell is only available in keyways A, D and N.

ACCESSORIES PART NUMBERS

Shell Size	Nut Plate	Gasket
08	ATM396 -8	GV-08
10	ATM396 -10	GV-10
12	ATM396 -12	GV-12
14	ATM396 -14	GV-14
16	ATM396 -16	GV-16
18	ATM396 -18	GV-18
20	ATM396 -20	GV-20
22	ATM396 -22	GV-22
24	ATM396 -24	GV-24
	•	

BOOT TERMINATION DETAIL



Shell Size	A ± 0.10	B ± 0.05
08	11.20	10.00
10	14.22	12.95
12	17.39	16.15
14	20.55	19.15
16	23.72	23.35
18	26.89	25.35
20	30.06	28.50
22	33.24	31.70
24	36.41	34.85

AS Double Density (ASDD) Series Connectors



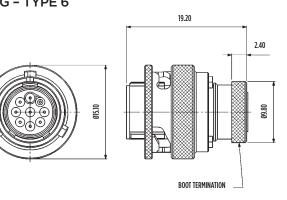
Next generation connector - high density and high performance 7 shell sizes

- Allows for a saving of 2 shell sizes relative to standard autosport planforms
- Very lightweight
- Almost double the number of contacts compared with the standard autosport range equivalent shell size
- Integral screen

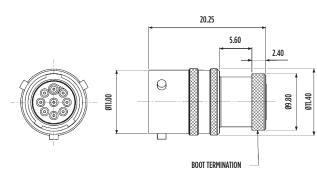
Built to withstand harsh environments

- Conductive black zinc finish
- Interfacial wire sealing
- Bonded and sealed insert to help prevent moisture ingress

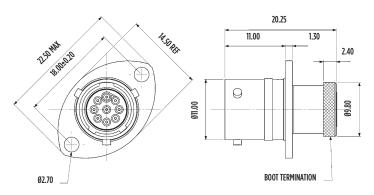
9-WAY ONLY PLUG - TYPE 6



INLINE RECEPTACLE - TYPE 1



RECEPTACLE - TYPE 0



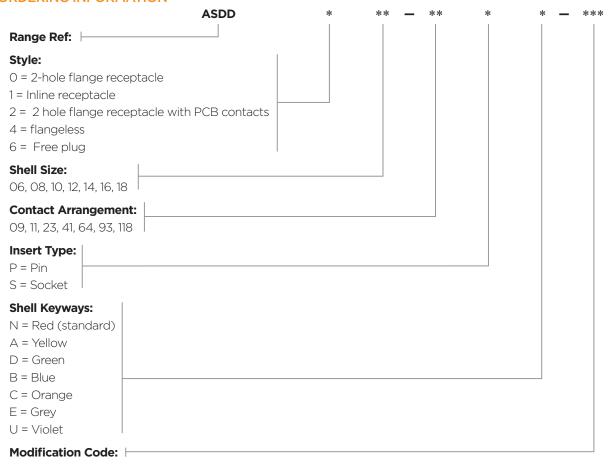
Connector	Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	Dielectric Withstanding	No. of Keyway Orientations	Wire Sealing (mm)		Temperature (°C)*	
SIEC SI	SIEC	(·····	& disengagement)	Voltage (VAC)	orientations	Min.	Max.	Min.	Max.	
6-9		6	_			6				
8-11		8				3				
10-23		10								
12-41	24	12	3	500	750		0.56	1.02	-55	+170
14-64		14				6				
16-93		16								
18-118		18	-							

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

CONTACTS & TOOLING PART NUMBERS

Connector	Socket	Pin	PCB Socket	PCB Pin	Ins/Ext Tool	Socket Positioner	Pin Positioner
6-9	605704	605705-31	610008	610006-31		605840	605839
8-11					-		
10-23			DCR vorsions	aro ordorod			
12-41	605721	605710-31	PCB versions are ordered with AS2 prefixes and come with contacts.		605837	610287	610286
14-64	003721	721 605719-31				010207	010200
16-93			With to	illacis.			
18-118							

ORDERING INFORMATION



Please note: The 08-11 is only available in keyways A, D and N and only the 06-09 is available in keyway E.

ACCESSORIES PART NUMBERS

For information on boots and nut plates please refer to AS series on pages 22 to 27 or contact TE Technical Support for further information.

^{**} Current leakage less than 2 milliAmps at (VAC)

AS Micro HE Hermetic Series Connectors

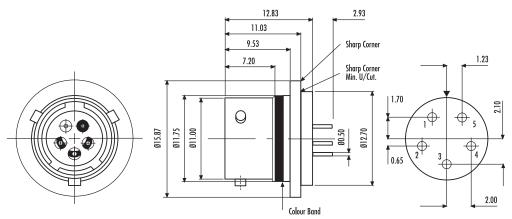


Hermetic weld mount connector intermateable with AS Micro and ASL

• Filtered Hermetic option also available

High performance materials

- Stainless Steel (316) for ease of mounting and corrosion performance
- Titanium versions for light weight applications also available
- Glass seal can withstand pressure differentials of 1000 psi without loss of electrical performance or fluid leakage



GENERAL SPECIFICATION

Contact Shell Size Size		Max. Current	Durability (cycles of engagement	Dielectric Withstanding	No. of Keyway	Temp (°C)*		Materials		Finish	
SIZE	SIZE	(Amps)	& disengagement)	Voltage (VAC)**	Orientations	Min.	Max.	Shell	Contacts	Shell	Contacts
23	6	3	500	1000	5	-65	+200	Stainless Steel (316)***	Nickel Iron	Electro- polished	Gold Plated

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

ORDERING INFORMATION

AS Micro HE Hermetic Receptacle: AS 4H 06 - 05 P N - HE

AS Micro HE Plug: ASL 606 05S * - HE

Shell Orientation:

N = Red (standard)

^{**} Current leakage less than 2 milliamps at (VAC)

^{***} Titanium Shell also available

AS Micro Hermetic (Jam-Nut) Series Connectors



Dedicated product for sensor and fuel cell use

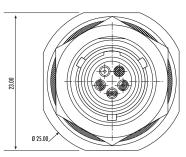
- · Jam-nut fixing
- Enlarged backshell for easier contact soldering
- Fuel immersible specification O-ring for enhanced fluid resistance

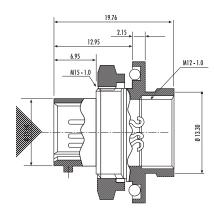
High performance materials

 Glass seal can withstand pressure differentials of 1000 psi without loss of electrical performance or fluid leakage

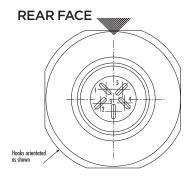
Fully intermateable with AS Micro HE connector and Micro Connector

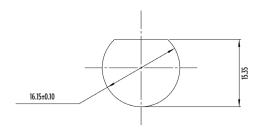
FRONT FACE





PANEL CUT-OUT DETAIL





GENERAL SPECIFICATION

Contact	Shell Max. Current		Durability (cycles of engagement	Dielectric Withstanding	No. of Keyway	Temperature (° C)*		
Size Size (Amps)	& disengagement)	Voltage (VAC)**	Orientations	Min.	Max.			
23	6	3	500	1000	1	-65	+200	

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

ORDERING INFORMATION

Part No. AS7H06 - 05 PN-HE

^{**} Current leakage less than 2 milliAmps at (VAC)

AS Hermetic Fuel Tank Series Connectors

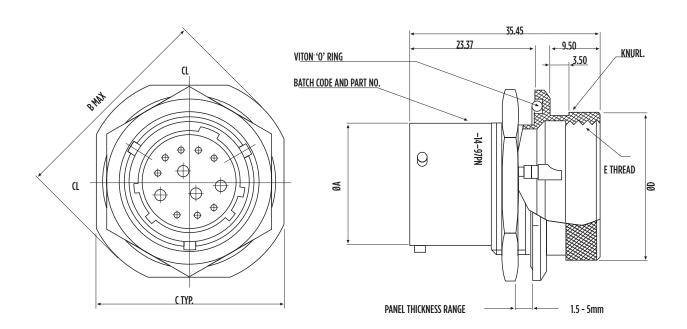


Range of connectors designed for fuel cell walls

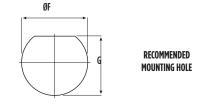
Selection of contact arrangements to accommodate pumps and sensors

High performance materials

- Fuel immersible specification O-ring for enhanced fluid resistance
- Integral potting cup, rear accessory thread and external boot termination feature
- Glass seal can withstand pressure differentials of 1000 psi without loss of electrical performance or fluid leakage

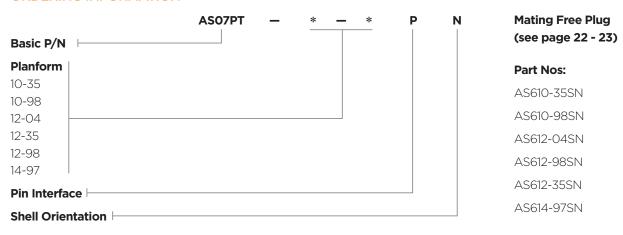


Shell Size	Part No.	ØA Max.	B Max.	C TYP.	ØD TYP.	E Thread	ØF Min.	G Max.
10	AS07PT-10-**PN	15.04	28.40	25.95	20.50	M18x1.0	17.70	17.00
12	AS07PT-12-**PN	19.09	33.00	30.75	23.67	M21x1.0	22.70	21.10
14	AS07PT-14-**PN	22.26	36.30	33.85	26.84	M24x1.0	25.70	24.30



Contact Size	Current Sealing		Pressure	Electrical	Mate	Materials		Finish	
	(Amps)				Shell	Contacts	Shell	Contacts	
22	5	_		IR 5000 Mohms @ 500 volt DC					
20	7.5	1 x 10 ⁻⁸ cc/sec @ 15 PSI	1,000 psi typ.		Stainless Steel (303)	Nickel Iron	Electro- polished	Gold Plated	
16	20			300 VOIL DC	3(66) (303)	non ponsileu			

ORDERING INFORMATION



For Aluminium version, please contact Autosport Technical Support - refer to back cover information.

ACCESSORIES PART NUMBERS

O'ring table

Part Number	inch	mm	Connector
429320-17	0.676	17.17	Size 6
429320-18	0.739	18.77	Size 10
429320-21	0.926	23.52	Size 12
429320-23	1.051	26.70	Size 14

AS MicroLITE HE Fuel Immersible Series Connectors



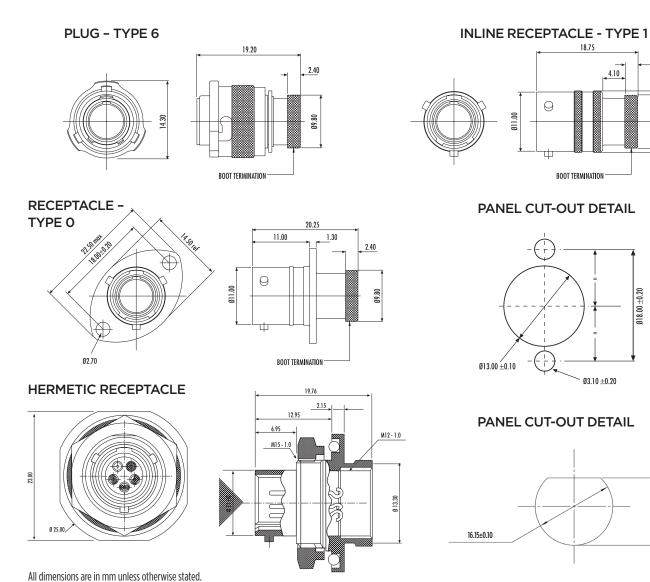
For in-tank connection applications

- Unique DEUTSCH designed fuel resistant elastomer insert
- Hermetic option with enlarged backshell for easy contact soldering and integrated potting cup available

08.60

15.35

- Cable accommodation 22, 24, 26 and 28 AWG
- Fully intermateable with AS Micro HE and AS Micro^{LITE} connectors



Contact Size	nichritation (cycles of enganement Withstanding	Withstanding	No. of Keyway Orientations	Wire Sealing (mm)		Temperature (°C)*			
Size Size (rilips)	(111165)	& disengagement)	Voltage (VAC)**	onemations .	Min.	Max.	Min.	Max.	
23	6	3	500	1000	6	0.60	1.37	-55	+170

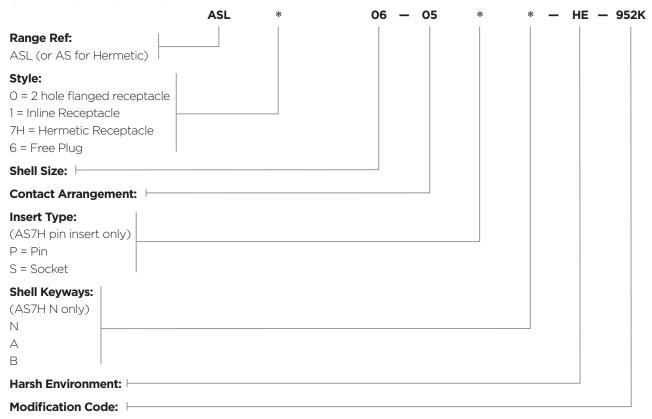
^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

For other sizes and arrangements, please call our TE Technical Support on +44 (0) 1424 852722 or email autosport@te.com

CONTACTS & TOOLING PART NUMBERS

Socket	Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
604935	604927-31	600300-22	M81969/14-01	M22520/2-01	604973	604972

ORDERING INFORMATION



Pro (Сар	Nut Plate	Gasket	
Receptacle	Plug	_		
604029	604027	ATM396-6	GV-6	

	Boot Information		
,	Straight	90 degree	
Raychem	202A111	222A111	
Hellermann	113-4-G	1108-4-G	

^{**} Current leakage less than 2 milliAmps at (VAC)

AS Heavy Duty (ASHD) Series Connectors















motorsport applications

- Cable accommodation from 16mm² 70mm²
- Positive locking coupling mechanism

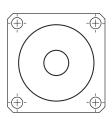
Autosport design for high current

High performance materials

- Environmentally sealed
- Thermal cycle tested
- Heavy duty rated
- Crimp type solid and gold plated copper contacts







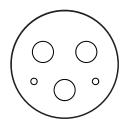
SuperASHD Single 70mm² contact



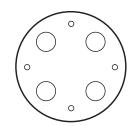
ASHD14-1 (1x AWG 4)



AS 22-24320 (2 x AWG 4, 3 x AWG 20)



AS 24-34220 (3 x AWG 4, 2 x AWG 20)



AS 24-44420 (4 x AWG 4, 4 x AWG 20)

CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
20	38943-20	38941-20	600300-20	M81969/14-10	M22520/2-01	M22520/2-10	M22520/2-10

Please note: PCB versions are ordered with AS2 prefixes and come with contacts.

Wire Size	Socket	Pin	Ext Tool	Crimp Tool	Jaws	Contact	Max. Current
16mm	611103-016	605734			605774	20	7.5
25mm	611103-025	605660	610136-Tool	605773	605775	4	200
35mm	611103-035	605735	_		605776	0 **	300

^{*}For use with part numbers ${\bf ASHD022\text{-}24320SN\text{-}S04}$ and ${\bf ASHD622\text{-}24320PN\text{-}004}$

Application Note: Due to potential high current, we would recommend that the product be suitably insulated with the appropriate materials.

ORDERING INFORM	IATION	ASHD	*	*	_	*	*	*	_	***	_	****
Range Ref:												
Style: 0 1 2 (ASHD size 14 only) 6 Shell Size: 14 = ASHD 22 = ASHD 2-Way and												
24 = ASHD 3 and 4-Wa Contact Arrangement: 1 = (ASHD) 24320 = (size 22) 34220 = (size 24) 3-Wa 44420 = (size 24) 4-Wa 1 = (Super ASHD)	i.											
Insert Type: P = Pin S = Socket												
Shell Keyways: N = Red (standard) A = Yellow B = Blue C = Orange D = Green E = Grey												
Harsh Environment: Contact Size Code 016 025 035												
Modification Code: ⊢												

^{**} Super ASHD only

AS Co-ax Series Connectors



Autosport designed co-axial cable solution

- Ultra compact and light weight design (size 3 shell)
- Single co-axial contact and gold-plated crimp contacts
- Positive locking coupling mechanism with 2 keyway orientations and boot termination feature
- Designed for RG316 cable

GENERAL SPECIFICATION

Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	Dielectric Withstanding	No. of Keyway Orientations		Sealing nm)		erature C)*
SIZC	JIZC	(Allips)	& disengagement)	Voltage (VAC)	onentations	Min.	Max.	Min.	Max.
-	3	-	500	1000	2	-	-	-55	+175

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

All dimensions are in mm unless otherwise stated.

CONTA	ACTS &	TOOLING	PARI	NUMBE

Contacts Pa	art Numbers	Connector Type	Part Number
Pin	Socket	Plug	ASCX603-1SN-050
610908	610872	Inline - receptacle	ASCX103-1PN-050
0.0300	010072	Flanged - receptacle	ASCX003-1PN-050

Portable Antenna



Portable antenna

- Ultra compact and light weight design (size 3 shell)
- Single co-axial contact
- Conductive black zinc finish
- Can be cut to length for optimised frequency (supplied with cut chart)
- Designed for RG316 and RG178 cables

GENERAL SPECIFICATION

Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	/cles of engagement Withstanding Orientations (mm)					erature C)*
5120	Size	(//////////////////////////////////////	& disengagement)	Voltage (VAC)	orientations	Min.	Max.	Min.	Max.
-	3	-	-	-	7	-	_	-55	+175

^{*}The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

Contact Autosport Technical Support for more details of specific products to meet your sealed electrical connection requirements.

All dimensions are in mm unless otherwise stated.

CONTACTS & TOOLING PART NUMBERS

Connector Type	Part Number				
Plug (standard)	ASCX603-1SN-050				
Inline - receptacle	ASCX103-1PN-050				
Flanged - receptacle	ASCX003-1PN-050				
Portable antenna plug	ASCX603-1SN-ANT20				

^{**} Current leakage less than 2 milliAmps at (VAC)

^{**}Current leakage less than 2 milliamps at (VAC)

Special Contacts



Thermocouple Contacts

- Available in #22 for Autosport Range
- Available in #23 for Micro^{Lite} Series connectors
- Engineered in Chromel and Alumel
- Designed exclusively for DEUTSCH connectors

THERMOCOUPLE #22 FOR AUTOSPORT RANGE

Description	Socket
Chromel pin	605346
Chromel socket	605347
Alumel pin	605348
Alumel socket	605349

THERMOCOUPLE #23 FOR MICROLITE

Description	Socket
Chromel pin	605378-CR
Chromel socket	605380-CR
Alumel pin	605378-AL
Alumel socket	605380-AL

CUSTOM MADE CONTACTS

In addition to Thermocouple contacts, we are able to engineer special solutions for different wire sizes on our regular contact range.



Aluminium Wire Options



ALUMINIUM WIRE

- Available for use with ASHD series connectors
- For aluminium wire AWG 4
- Aluminium wire and contact solution has been certified for flight use
- Other smaller contact sizes and wire options available

Autosport Specialist Solutions

ALUMINIUM WIRE GENERAL SPECIFICATION

Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	Dielectric Withstanding	No. of Keyway Orientations		Sealing nm)		erature C)*
	JIZC	(Allips)	& disengagement)	Voltage (VAC)	orientations .	Min.	Max.	Min.	Max.
4	-	150	500	1500	-	-	-	-55	+175

Pin	610905
Socket	610906

AS4 Flangeless Option



AS4 FLANGELESS

- Weight-saving alternative to AS1 receptacle
- Available on AS shells 8 24
- Added knurl for easier coupling
- Factory modified change to save team's time
 - Available on shell sizes 8 24
 - Sample part number: AS410-35PN
 - (AS4 shell type denotes flangeless option)

Clinchnut AS Series Connectors



CLINCHNUT AS SERIES

- A replacement for nutplates
- Available for PCB and flange mounted versions
- Time-saving option
- Available across the range of AS connectors

CLINCHNUT AS SERIES GENERAL SPECIFICATION

Contact Size	Shell Size	Max. Current (Amps)	Durability (cycles of engagement	Dielectric Withstanding Voltage (VAC)	No. of Keyway Orientations	Wire Sealing (mm)		Temperature (°C)*	
	JILC		& disengagement)			Min.	Max.	Min.	Max.
-	-	-	500	-	-	-	-	-55	+175

^{*} The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

^{**} Current leakage less than 2 milliAmps at (VAC)

Mod Code	978M

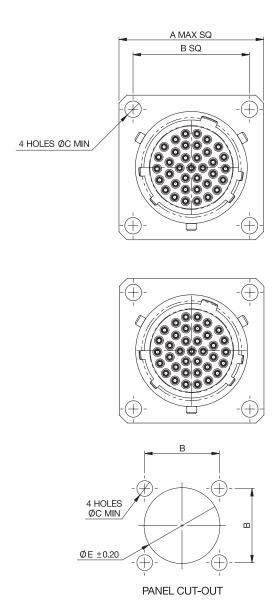


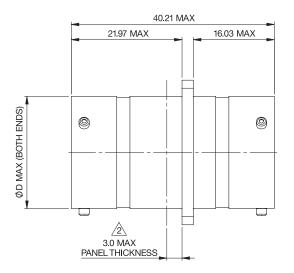
AS3 Through Bulkhead



AS3 THROUGH BULKHEAD

- Military proven design
- Scoop-proof interface with shell to shell grounding
- Positive locking coupling mechanism
- Environmentally sealed to IP67
- Thermal cycle tested
- Fully intermateable with AS range of products
- Gold plated crimp contacts
- 4 hole mounting style





PART NUMBERS					
AS310-35PPN	 Further options available, 				
AS312-35PPN	please contact sales				
AS314-35PPN	offices for details.				

Contact TE for more details of specific products to meet your sealed electrical connection requirements.

AS Fibre Optics Series Connectors



AS FIBRE OPTIC SOLUTIONS

High quality fibre optic contacts are available in sizes 10-02, 10-03, for any AS Series connector planform having size 16 contact locations, e.g. 12-04, 14-97, 16-08, 20-16, 20-39, 22-21 and 24-29.

The precision ceramic ferruled fibre optic contacts are available for high quality (Aerospace type specification) optic cables and silica glass fibres, enabling high speed, EMI / RFI immune data transmission.

The optical contacts are designed to meet MIL-T-29504/5.

Termination Boots and Accessories



Gaskets

Designed specifically for TE's DEUTSCH Autosport flanged connectors, these gaskets are available from size 02 through to 24 shells.

Constructed from fluoroelastomer polymer they assist in sealing the connectors to the mounting point and have been manufactured to withstand the temperatures, vibration and fluids found in the modern racing environment.

For part numbers please refer to page 47.



Nut Plates

Nut Plates are available for all AS two-hole flange mounted connector receptacles.

They are designed to simplify connector-to-bulkhead assembly, particularly in confined spaces, by eliminating the need to position loose nuts and washers. Nut plates are also anti-vibration and make assembly quicker and easier.

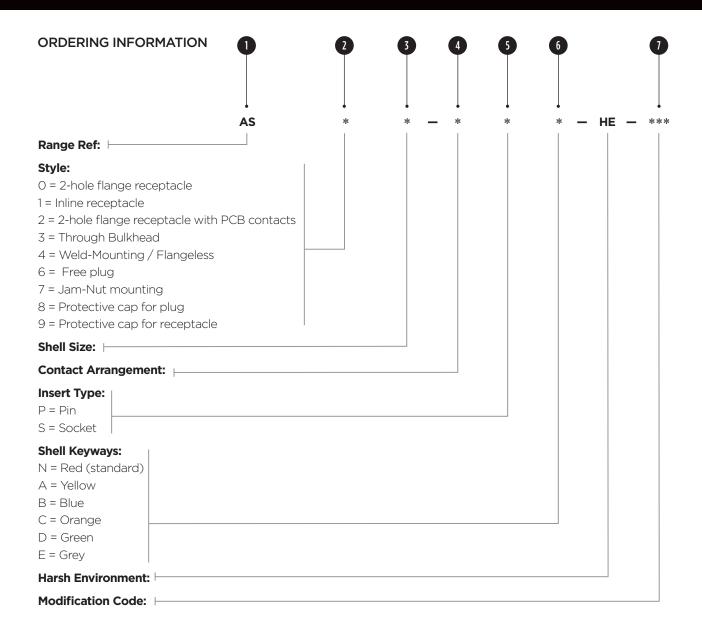
For part numbers please refer to page 47.

Braid Termination Systems

Attaching braid to the back of an autosport connector can be done in a number of ways, depending on the environment the connector will be operating in. The standard practice of a metal strap on the braid to fasten it to the groove at the back of the shell is seen as a reliable solution with tooling and straps available from a number of sources.

TE Connectivity's engineers would suggest both the TE Connectivity screened backshell options which can be found on-line at www.te.com/usa-en/product-CX6566-000.html or the Glenair Band-IT system which uses the part numbers 600-057 (for the autosport connector sizes up to #16) or 600-083 (for the autosport connector sizes up over #16).

How to Order



All TE's DEUTSCH Autosport part numbers work to the same principles. The part number is broken down into sections as follows:

- 'AS' indicates that it is an Autosport connector all TE's DEUTSCH Autosport connectors start like this.
 There may be another letter after the AS - this designates a particular series.
 For example ASL = Micro^{LITE}, ASDD = Double Density.
- 2. The next major element is the connector style.
 - 0 = 2 hole flanged receptacle
 - 1 = Inline receptacle
 - 2 = 2 hole flanged receptacle with fixed PCB contacts
 - 3 = Through Bulkhead
 - 4 = Weld mounting / Flangeless
 - 6 = Free plug
 - 7 = Jam-nut mounting
 - 8 = Protective cap for plug
 - 9 = Protective cap for receptacle

Please note: not all of these options are available on

all products; the relevant product pages will give you this information.

- 3. Relates to the required shell size. This will range from 02 (small) to 24 (large).
- 4. Is the planform detail (number of contacts).
- **5.** Indicates the gender of a plug or receptacle. 'P' for pin or 'S' for socket.
- **6.** Designates a keyway. Only connectors of the same keyway can mate. The options are: N, A, B, C, D, E or
 - U for universal or no keyway option. The 'U' option should only be selected for test harnesses and not for racing applications.
- 7. After all these elements there may be a 4-character code, which designates a special modification. For instance this can be a special contact length or a non-standard plating finish. For more information on modification codes please contact the TE Technical Support on +44 (0) 1424 857 088 or email

autosport@te.com

For details of the ordering procedure for your area, please contact the relevant local distributor. A list of these can be found on the reverse of this brochure or on our website **www.te.com/autosport**

Reference Guide

CONTACT TYPE

CONTACT SIZE	PART NO.	P/S	WIRE RANGE	COLOUR BAND	Max. CURRENT	CRIMP TOOL	POSITIONER	?	PLASTIC TOOLS Insert/removal
Size 24	605719-31	Р	24.70	24-30 None 3 Amps M2	7 1 2225	N22520/2 01	610286	Р	605837
ASDD excluding 9-way	605721	S	24-30		M22520/2-01	610287	S	Orange/White	
Size 24	605705-31	Р	24.70		7.		605839	Р	605837
ASDD 9 way, ASX 5/6, ASU 5 way	605704	S	24-30	None	3 Amps	M22520/2-01	605840	S	Orange/White
C: 27	604927-31	Р	22.20	None	7 4	M22520/2 01	604972	Р	M81969/14-01
Size 23	604935	S	22-28	None	3 Amps	M22520/2-01	604973	S	Green/White
6: 22	38941-22	Р	22.26	Orange, Blue, Black		M22520/2-01	M22520/2-09	Р	M81969/14-01 Green/White
Size 22	38943-22	S	22-26	Orange, Yellow, Grey	5 Amps		M22520/2-07	S	
c: 20	38941-20	Р		Orange, Blue, Orange	75.4	1422520/2 01	M22520/2-10	Р	M81969/14-10
Size 20	38943-20		M22520/2-01	M22520/2-10	S	Red/Orange			
6: 46	38941-16	Р		Orange, Blue, Yellow	20 Amps M22520/1-01 —	M22520/1-04	Р	M15570-6	
Size 16	38943-16	S	16-20	Orange, Green, Red		M22520/1-04	S	Blue/White	
AC Mini Cine 22	38941-22	Р	22.26	Orange, Blue, Black	F A	M22520/2 01	M22520/2-09	Р	M81969/14-01
AS Mini Size 22	604887	S	22-26	None	5 Amps	M22520/2-01	605000	S	Green/White
AC Mini Cina 20	38941-20	Р	20.24	Orange, Blue, Orange	- 7.5 Amps M22520/2-	M22F20/2 01	M22520/2-10	Р	M81969/14-10
AS Mini Size 20	6862-201-20278	S	20-24	None		1412720/2-01	M22520/2-10	S	Red/Orange
Size 22	604946-31	Р					605463	Р	M81969/14-01
AS Composite/ASU 3-Way, ASX 3-Way	604984	S	22-28	None	5 Amps	M22520/2 -01	605464	S	Green/White

BOOT INFORMATION

CUELL CIZE	STRAIGH	T B00T	90 DEGRE	E BOOT
SHELL SIZE	RAYCHEM	HELLERMAN	RAYCHEM	HELLERMAN
ASX (Size 2)	203W301-25-G03	1037-4-G	223W601	1182-4-G
ASU (Size 3)	204W221-25-G03	1037-4-G	224W221-25-G03	1182-4-G
ASC	204W221	1030-4-G	224W221	1181-4-G
ASL	204W221	1030-4-G	224W221	1181-4-G
AS Mini	202K121	152-42-G	222K121	1152-4-G
08	202K121	152-42-G	222K121	1152-4-G
10	202K132	152-42-G	222K121	1152-4-G
12	202K142	154-42-G	222K132	1154-4-G
14	202K142	155-42-G	222K142	1155-4-G
16	202K153	156-42-G	222K152	1156-4-G
18	202K153	156-42-G	222K152	1156-4-G
20	202K163	157-43-G	222K163	1157-4-G
22	202K163	157-43-G	222K163	1157-4-G
24	202K174	157-43-G	222K174	1157-4-G

ACCESSORIES

SHELL SIZE	NUTPLATE	GASKET	PLUG/RECEPTACLE	PROTECTIVE CAP
2 (ASX 3/5)	ATM396-2 M2	GV-2	Plug	611546
Z (A3A 3/3)	ATINDA0-5 M5	ŪV-Z	Receptacle	611545
2 (ASX 6 only)	ATM396-2 M2	GV-2	Plug	611637
Z (ASA O OTTLY)	A111330-2 112	UV-Z	Receptacle	611636
3/5 (ASU)	ATM396-4 M2	GV-3	Plug	605687
(טפא) כיןכ	A111350-4 11Z	C-VD	Receptacle	605684
C (ACI)	ATM396-6 M2.5	GV-6	Plug	604027
6 (ASL)	AIM390-0 M2.3	UV-0	Receptacle	604029
7.00.0	ATM706 7 M7	CUZ	Plug	AS807
7 (Mini)	ATM396-7 M3	GV-7	Receptacle	AS907
00	ATM70C 0 M7	CV 0	Plug	AS808
08	ATM396-8 M3	GV-8 -	Receptacle	AS908
10	ATM706 10 M7	CV 10	Plug	AS810
10	ATM396-10 M3	GV-10 -	Receptacle	AS910
12	ATM706 12 M7	GV-12	Plug	AS812
12	ATM396-12 M3		Receptacle	AS912
14	ATM396-14 M3	GV-14	Plug	AS814
14	A1141590-14 1415	GV-14	Receptacle	AS914
10	ATM70C 1C M7	CV 1C	Plug	AS816
16	ATM396-16 M3	GV-16	Receptacle	AS916
10	ATM706 10 M7	CV 10	Plug	AS818
18	ATM396-18 M3	GV-18	Receptacle	AS918
20	ATM70C 20 M7	CV 20	Plug	AS820
20	ATM396-20 M3	GV-20	Receptacle	AS920
22	ATM70C 22 M7	611.00	Plug	AS822
22	ATM396-22 M3	GV-22	Receptacle	AS922
24	ATM70C 24 M7	CV 24	Plug	AS824
24	ATM396-24 M3	GV-24	Receptacle	AS924

WIRE SIZES AND DIMENSIONS

AUTOSPORT	SIZE	FINISHED WIRE DIMENSIONS				
CONTACT CITE	MUDE CIZE (AMC)	COND	JCTOR	INSULATION		
CONTACT SIZE	WIRE SIZE (AWG) —	Min.	Max.	Min.	Max.	
24	30,28,26,24	0.254mm 0.010in	0.511mm 0.02in	0.56mm 0.22in	1.02mm 0.040in	
23	28,26,24,22	0.321mm .012in	0.790mm .031in	0.60mm .023in	1.37mm .054in	
22	26,24,22	0.405mm .015in	0.790mm .031in	0.76mm .030in	1.37mm .054in	
20	24,22,20	0.511mm .02in	0.970mm .038in	1.02mm .040in	2.11mm .083in	
16	20,18,16	0.812mm .031in	1.530mm .60in	1.65mm .65in	2.77mm .109in	

FILLER PLUGS

CONTACT SIZE	PART NUMBER
24	600300-24
23	600300-22
22	600300-22
20	600300-20
16	600300-16

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

te.com/support-center

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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