

Amphenol® GT Series Reversed Bayonet Coupling Connectors

12-024-4



Amphenol

Table of Contents	Page No.
Amphenol® GT Series Reversed Bayonet Coupling Connectors	
General Description	1
MS/Standard insert availability charts	2, 3
Special insert availability chart	4
MS/Standard insert alternate positioning	5
MS/Standard contact arrangements	6-17
Special contact arrangements	18-26
Thermocouple contact availability	27
Thermocouple contact arrangements	28-31
GT Connector Classes	32
GT00A wall mount receptacle for front panel mounting	33
GT00AF/00F wall mount receptacle for front panel mounting	34
GT00CF/00CFZ wall mount receptacle for front panel mounting	35
GT00G wall mount receptacle for front panel mounting	36
GT00LCF/00LCFZ wall mount receptacle for front panel mounting	37
GT00R wall mount receptacle for front panel mounting	38
GT00RV wall mount receptacle for front panel mounting	39
GT01A inline receptacle	40
GT01AF/01F inline receptacle	41
GT01G inline receptacle	42
GT01LCF/01LCFZ inline receptacle	43
GT01R inline receptacle	44
GT01RV inline receptacle	45
GT02R/02RFS box mount receptacle for front panel mounting	46
GT020R/020RFSM box mount receptacle for front panel mounting	47
GT030 square flange receptacle for rear panel mounting	48
GT030A square flange receptacle for rear panel mounting	49
GT030AF/030F square flange receptacle for rear panel mounting	50
GT030G square flange receptacle for rear panel mounting	51
GT030R square flange receptacle for rear panel mounting	52
GT030RV square flange receptacle for rear panel mounting	53
GT06A straight plug	54
GT06AF/06F straight plug	55
GT06CF straight plug	56
GT06CFGG straight plug	57
GT06G straight plug	58
GT06LC straight plug	59
GT06LCF/06LCFZ straight plug	60
GT06PP/064PP panel plug	61
GT06R straight plug	62
GT06RV straight plug	63
GT065SL straight plug	64
GT07R jam nut receptacle	65
GT070 jam nut receptacle	66
GT08A 90° angle plug	67
GT08AF/08F 90° angle plug	68
GT08CFGG 90° angle plug	69
GT08R 90° angle plug	70
GT05 dummy receptacle	71
GTTB thru-bulkhead receptacles	72
Sealing gaskets	73
Receptacle protection caps	74
Plug protection caps	75
M85049/41 (MS3057-A) cable clamp	76
MS3420 bushing	77
M85049/2 (MS3057-C) cable clamp	78
Rear mounting data - receptacles, sealing plugs, sealing ranges, backshell torque forces	79
Solder and crimp contact information	80, 81
MS/Standard application tools	82
How to order, connector intermateability	83
Special Application GT Connectors:	
GT-PC Connectors for high voltage power applications	
GT Connectors for the HMI lighting industry	84
Sales office listing	

Amphenol® GT Connectors



wall mount receptacle



inline receptacle



straight plug



plug with rubber covered coupling nut



jam nut receptacle

Amphenol® GT reverse bayonet coupling connectors with MIL-C-5015 insert patterns features:

- Quick positive coupling
- Audible, tactile and visual indication of full coupling
- Waterproof
- No lockwiring required
- High shock and vibration capabilities
- Inserts available in Neoprene and Viton* materials
- Low smoke/flame retardant inserts also available
- Operating temperature range:
With Neoprene inserts: -55°C to $+125^{\circ}\text{C}$
With Viton** inserts: -50°C to $+200^{\circ}\text{C}$
With low smoke/flame retardant inserts: -55°C to $+125^{\circ}\text{C}$
- Available in both crimp and solder terminations
- Contacts available in gold and silver plating
- Thermocouple contacts available
- Numerous military and commercial finishes available
- Zinc alloy plating (cadmium free) available
- Rugged construction; aluminum or stainless steel components
- Available with resilient cover coupling for added damage protection and increased gripping surface
- Intermateable with existing VG95234 connectors
- 2000 couplings minimum

Amphenol® GT Connectors feature a quick mating bayonet coupling with an audible, tactile and visual full mating feature. Designed originally for use by the military, the heavy duty GT connector has become widely used in commercial, geophysical, aerospace, ground support and ship-board applications.

See page 84 for Amphenol's newest offerings of GT Series connectors - the GT-PC for high voltage power applications and GT connectors with color-coded receptacles and backshells for the HMI lighting industry.

For further information on your individual application requirements, contact:

Amphenol Corporation
Amphenol Aerospace
40-60 Delaware Avenue
Sidney, New York 13838-1395
Phone: 607-563-5011 Fax: 607-563-5351

NOTE:

The connector products in this brochure were formerly known as Bendix® products. These products are now manufactured and sold under the Amphenol® brand name. The name "Amphenol" will replace the name "Bendix" on products and literature in the future.

1 ** For availability of Viton inserts consult Amphenol, Sidney, NY. Viton is a registered trademark of Dupont/Dow Corning.

MS/Standard

insert availability

Insert Arrangement	Service Rating	Total Contacts	Contact Size				
			0	4	8	12	16
8S-1	A	1					1
10S-2	A	1					1
10SL-3	A	3					3
10SL-4†	A	2					2
12S-3	A	2					2
12S-4	D	1					1
12-5	D	1				1	
14S-2	Inst.	4					4
14S-4	D	1					1
14S-5	Inst.	5					5
14S-6	Inst.	6					6
14S-7	A	3					3
14S-9	A	2					2
14S-10	Inst.	4					4
14S-12	A	3					3
14-3	A	1			1		
16S-1	A	7					7
16S-3	B	1					1
16S-4	D	2					2
16S-5	A	3					3
16S-6	A	3					3
16S-8	A	5					5
16-2	E	1				1	
16-7	A	3			1		2
16-9	A	4				2	2
16-10	A	3				3	
16-11	A	2				2	
16-12	A	1		1			
16-13	A	2				2	
18-1	A/Inst.	10					10
18-3	D	2				2	
18-4	D	4					4
18-5	D	3				2	1
18-6	D	1		1			
18-7	B	1			1		
18-8	A	8				1	7
18-9	Inst.	7				2	5
18-10	A	4				4	
18-11	A	5				5	
18-12	A	6					6
18-13	A	4			1	3	
18-14	A	2		1			1
18-15	A	4				4	
18-16	C	1				1	
18-17	Inst.	7				2	5
18-19	A	10					10
18-20	A	5					5
18-22	D	3					3
18-24	A/Inst.	10					10
18-29	A	5					5
18-30	A	5					5

Insert Arrangement	Service Rating	Total Contacts	Contact Size				
			0	4	8	12	16
18-31	A	5					5
20-2	D	1	1				
20-3	D	3				3	
20-4	D	4				4	
20-6	D	3					3
20-7	D/A	8					8
20-8	Inst.	6			2		4
20-9	D/A	8				1	7
20-11	Inst.	13					13
20-12	A	2		1			1
20-14	A	5			2	3	
20-15	A	7				7	
20-16	A	9				2	7
20-17	A	6				5	1
20-18	A	9				3	6
20-19	A	3			3		
20-20	A	4		1		3	
20-21	A	9				1	8
20-22	A	6			3		3
20-23	A	2			2		
20-24	A	4			2		2
20-25	Inst.	13					13
20-27	A	14					14
20-29	A	17					17
20-30	Inst.	13					13
20-33	A	11					11
22-1	D	2			2		
22-2	D	3			3		
22-4	A	4			2	2	
22-5	D	6				2	4
22-6	D	3			2		1
22-7	E	1	1				
22-8	E	2				2	
22-9	E	3				3	
22-10	E	4					4
22-11	B	2					2
22-12	D	5			2		3
22-13	D/A	5				4	1
22-14	A	19					19
22-15	E/A	6				5	1
22-16	A	9				3	6
22-17	D/A	9				1	8
22-18	D/A	8					8
22-19	A	14					14
22-20	A	9					9
22-21	A	3	1				2
22-22	A	4			4		
22-23	D/A	8				8	
22-24	D/A	6				2	4
22-27	D/A	9			1		8
22-28	A	7				7	

† 10SL-4 arrangement available only with pin contacts in receptacle and socket contacts in plug

MS/Standard

insert availability, cont.

Insert Arrangement	Service Rating	Total Contacts	Contact Size				
			0	4	8	12	16
22-33	D/A	7					7
22-34	D	5				3	2
24-2	D	7				7	
24-3	D	7				2	5
24-5	A	16					16
24-6	D/A	8				8	
24-7	A	16				2	14
24-9	A	2		2			
24-10	A	7			7		
24-11	A	9			3	6	
24-12	A	5		2		3	
24-16	D/A	7			1	3	3
24-17	D	5				2	3
24-20	D	11				2	9
24-21	D	10			1		9
24-22	D	4			4		
24-27	E	7					7
24-28	Inst.	24					24
28-1	D/A	9			3	6	
28-2	D	14				2	12
28-3	E	3			3		
28-4	E/D	9				2	7
28-5	D	5		2		1	2
28-6	D	3		3			
28-7	D	2		2			
28-8	E/D/A	12				2	10
28-9	D	12				6	6
28-10	D/A	7		2	2	3	
28-11	A	22				4	18
28-12	A	26					26
28-13	A	26					26
28-15	A	35					35
28-16	A	20					20
28-17	B/D/A	15					15
28-18	C/D/A/Inst.	12					12
28-19	B/D/A	10				4	6
28-20	A	14				10	4
28-21	A	37					37
28-22	D	6		3			3

Insert Arrangement	Service Rating	Total Contacts	Contact Size				
			0	4	8	12	16
32-1	E/D	5	2			3	
32-2	E	5		3			2
32-3	D	9	1	2		2	4
32-4	A/D	14				2	12
32-5	D	2	2				
32-6	A	23		2	3	2	16
32-7	Inst./A	35				7	28
32-8	A	30				6	24
32-9	D	14		2			12
32-10	E/B/D/A	7		2	2		3
32-12	A/D	15				5	10
32-13	D	23				5	18
32-15	D	8	2			6	
32-16	A	23		2	3	2	16
32-17	D	4		4			
32-22	A	54					54
32-31	A	31					31
36-1	D	22				4	18
36-3	D	6	3			3	
36-4	D/A	3	3				
36-5	A	4	4				
36-6	A	6	2	4			
36-7	A	47				7	40
36-8	A	47				1	46
36-9	A	31		1	2	14	14
36-10	A	48					48
36-11	A	48					48
36-12	A	48					48
36-13	E/A	17				2	15
36-14	D	16			5	5	6
36-15	D/A	35					35
36-16	A	47				7	40
36-17	A	47				7	40
36-18	A	31		1	2	14	14
36-20	A	34			2	2	30
36-52	A	52					52
40-1	D	30				6	24
40-9	A	47			1	22	24
40-56	A	85					85

Special insert availability

Insert Arrange- ment	Service Rating	Total Con- tacts	Contact Size									
			0	4	8	12	16	Coax**				
								0	4	8	12	
14-A7	A	7					7					
16-59	A	4				4						
20-51	A	3			3							
20-57	A	7				7*						
20-58	A	10				5	5					
20-59	A	3			3*							
20-66	A	6				5*	1					
20-79	A/D	8				1	7					
22-63	A	12				4	8					
22-65	A/D	8				8*						
22-70	A	13				8	5					
22-80	A	3			3*							
24-51	A	5			5							
24-52	Hi Volt.	1				1						
24-53	A	5			5							
24-58	A	13			3	3	7					
24-59	A	14				7	7					
24-60	A	7			7*							
24-65	A	15				11	4					
24-66	D	7				7						
24-67	Inst.	19				19						
24-71	A	7			7*							
24-75	A	7			7*							
24-79	A	5			5							
24-80	Inst.	23					23					
24-84	A	19				1						18
24-96	Inst.	28					28					
24-AJ	A	25					25					
28-51	A	12				12						
28-59	A	17				7	10					
28-66	A	16			2	14						
28-72	Coax	3							3			
28-74	A	16			7*		9					
28-75	A	16			7*		9					
28-79	A	16			7		9					
28-82	D	6			2	4						
28-84	A	9			9							
28-AY	A	9		4			5					
32-25	A	25				25						
32-52	D	8	2			6						
32-53	Inst./E	42				5	37					
32-56	A	30				6*	24					
32-57	Coax	8				6		2				
32-58	Coax	4							4			
32-60	A	23					15				8	
32-62	Coax	23		2	1	2	16			2		
32-64	Inst.	54					54					
32-68	A	16					12		4			

* Crimp contacts accommodate wire the same size as the contact as well as wire of the next smaller, even size. Arrangements identified with an asterisk (*) are exceptions. See insert arrangement drawings on pages 18-26 for application wire size.

Insert Arrange- ment	Service Rating	Total Con- tacts	Contact Size									
			0	4	8	12	16	Coax**				
								0	4	8	12	
32-73	A	46					46					
32-75	Coax	9				2				7		
32-76	A	19				19						
32-79	D	5		4	1							
32-82	A	16		4			12					
32-AF	A	55					55					
36-51	D	4	2	2								
36-54	A	39			8		31					
36-55	A	39			8*		31					
36-59	A	53				3*	50					
36-60	A	47				7*	40					
36-64	Coax	4						4				
36-65	Coax	4						4				
36-71	A	53				3	50					
36-73	Coax	7							7			
36-74	A	44					43				1	
36-75	A	48					48*					
36-76	A	47					47					
36-77	D	7		7								
36-78	A	14			12		2					
36-79	A	20				20						
36-80	A	20				20*						
36-83	Coax	7							7			
36-85	A/D	35					35*					
36-AF	A	48					48					
40-5	A	5	5									
40-10	A	29		4	9		16					
40-35	D	35				35						
40-53	A	60					60					
40-57	E	4	4									
40-61	A	59			1	3	55					
40-62	A	60					60					
40-63	A	61					61*					
40-64	Coax	36				3	20			13		
40-66	Coax	4						4				
40-67	A	11					1		10			
40-68	A	21			21							
40-70	A	61					61					
40-72	A	11					1		10			
40-73	A	61					61					
40-74	A	6				1		4	1			
40-75	E	5	4			1						
40-80	A	11		10			1					
40-81	A	62					62*					
40-82	A	62					62					
40-85	A	60					60*					
40-86	E	4						4				
40-87	D	7		7								
40-AG	A	38				38						

**Coaxial cable data can be found on insert arrangement drawings, pages 18-26. For further information on coaxial contacts and cable see catalog 12-130.

MS/Standard insert alternate positioning

To avoid cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement, alternate rotations are available as indicated in the accompanying charts.

As shown in the diagram below, the front face of the pin insert is rotated within the shell in a clockwise direction from the normal shell key. The socket insert would be rotated counter-clockwise the same number of degrees in respect to the normal shell key.



The following insert arrangements have the same alternate insert rotations for W, X, Y and Z, which are:

Degrees			
W	X	Y	Z
80	110	250	280

16-7	20-16	22-18	24-4	24-28	28-17	32-12
18-5	20-20	22-19	24-5	28-1	28-19	32-13
18-9	20-22	22-21	24-6	28-4	28-20	32-22
18-13	22-3	22-24	24-7	28-8	28-21	32-AF
18-14	22-6	22-25	24-12	28-9	32-1	36-1
20-7	22-12	22-29	24-14	28-10	32-3	36-7
20-8	22-14	22-33	24-16	28-11	32-4	36-8
20-9	22-15	22-34	24-17	28-14	32-6	36-13
20-12	22-16	24-1	24-20	28-15	32-9	
20-14	22-17	24-3	24-21	28-16	32-10	

Insert Arrangement	Degrees			
	W	X	Y	Z
10SL-4	63	—	—	—
12S-3	70	145	215	290
14S-2	—	120	240	—
14S-5	—	110	—	—
14S-7	90	180	270	—
14S-9	70	145	215	290
16-9	35	110	250	325
16-10	90	180	270	—
16-11	35	110	250	325
16-13	35	110	250	325
16S-1	80	—	—	280
16S-4	35	110	250	325
16S-5	70	145	215	290
16S-6	90	180	270	—
16S-8	—	170	265	—
18-1	70	145	215	290
18-3	35	110	250	325
18-4	35	110	250	325
18-8	70	—	—	290
18-10	—	120	240	—
18-11	—	170	265	—
18-12	80	—	—	280
18-15	—	120	240	—
18-20	90	180	270	—
18-22	70	145	215	290
18-29	90	180	270	—
20-3	70	145	215	290
20-4	45	110	250	—
20-5	35	110	250	325
20-6	70	145	215	290
20-15	80	—	—	280

Insert Arrangement	Degrees			
	W	X	Y	Z
20-17	90	180	270	—
20-18	35	110	250	325
20-19	90	180	270	—
20-21	35	110	250	325
20-23	35	110	250	325
20-24	35	110	250	325
20-27	35	110	250	325
20-29	80	—	—	280
22-1	35	110	250	325
22-2	70	145	215	290
22-4	35	110	250	325
22-5	35	110	250	325
22-8	35	110	250	325
22-9	70	145	215	290
22-10	35	110	250	325
22-11	35	110	250	325
22-13	35	110	250	325
22-20	35	110	250	325
22-22	—	110	250	—
22-23	35	—	250	—
22-27	80	—	250	280
22-28	80	—	—	280
24-2	80	—	—	280
24-9	35	110	250	325
24-10	80	—	—	280
24-11	35	110	250	325
24-22	45	110	250	—
24-27	80	—	—	280
28-2	35	110	250	325
28-3	70	145	215	290
28-5	35	110	250	325

Insert Arrangement	Degrees			
	W	X	Y	Z
28-6	70	145	215	290
28-7	35	110	250	325
28-12	90	180	270	—
28-18	70	145	215	290
28-22	70	145	215	290
28-AY	45	110	250	—
32-2	70	145	215	290
32-5	35	110	250	325
32-7	80	125	235	280
32-8	80	125	235	280
32-15	35	110	250	280
32-17	45	110	250	—
32-25	60	120	—	—
32-64*	80	100	110	250
32-68	30	—	—	—
32-82	30	—	—	—
36-3	70	145	215	290
36-4	70	145	215	290
36-5	—	120	240	—
36-6	35	110	250	325
36-9	80	125	235	280
36-10	80	125	235	280
36-14	90	180	270	—
36-15	60	125	245	305
36-AF	65	—	—	—
40-1	65	130	235	300
40-5	33	—	—	270
40-9	65	125	225	310
40-10	65	125	225	310
40-35	70	130	230	290
40-AG	37	74	285	322

* Additional rotations available; consult Amphenol for information.

MS/Standard

contact arrangements

front face of pin insert or rear face of socket insert illustrated

			Front of Socket Insert	Front of Socket Insert			
Insert Arrangement	8S-1	10S-2	10SL-3	10SL-4	12S-3	12S-4	12-5
Service Rating	A	A	A	A	A	D	D
Number of Contacts	1	1	3	2	2	1	1
Contact Size	16	16	16	16	16	16	12

Insert Arrangement	14S-2	14S-4	14S-5	14S-6	14S-7	14S-9
Service Rating	Inst.	D	Inst.	Inst.	A	A
Number of Contacts	4	1	5	6	3	2
Contact Size	16	16	16	16	16	16

	100° Rotation of 14S-2	100° Rotation of 14S-7				
Insert Arrangement	14S-10	14S-12	14-3	16S-1	16S-3	16S-4
Service Rating	Inst.	A	A	A	B	D
Number of Contacts	4	3	1	7	1	2
Contact Size	16	16	8	16	16	16

Insert Arrangement	16S-5	16S-6	16S-8	16-2	16-7	16-9
Service Rating	A	A	A	E	A	A
Number of Contacts	3	3	5	1	1 2	2 2
Contact Size	16	16	16	12	8 16	12 16

CONTACT LEGEND

⊕

⬤

⬤

○

⊗

16

12

8

4

0

MS/Standard contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	16-10	16-11	16-12	16-13	18-1	18-3
Service Rating	A	A	A	A	B, C, F, G = A; Bal. = Inst.	D
Number of Contacts	3	2	1	2*	10	2
Contact Size	12	12	4	12	16	12

Insert Arrangement	18-4	18-5	18-6	18-7	18-8	18-9
Service Rating	D	D	D	B	A	Inst.
Number of Contacts	4	2 1	1	1	1 7	2 5
Contact Size	16	12 16	4	8	12 16	12 16

Insert Arrangement	18-10	18-11	18-12	18-13	18-14	18-15
Service Rating	A	A	A	A	A	A
Number of Contacts	4	5	6	1 3	1 1	4**
Contact Size	12	12	16	8 12	4 16	12

Insert Arrangement	18-16	18-17	18-19	18-20	18-22	18-24
Service Rating	C	Inst.	A	A	D	B, C, F, G = A; Bal. = Inst.
Number of Contacts	1	2 5	10	5	3	10
Contact Size	12	12 16	16	16	16	16

⊕

●

●

○

⊗

CONTACT LEGEND

16

12

8

4

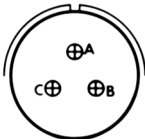
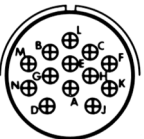
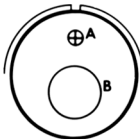
0

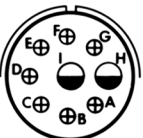
* A = Iron; B = Constantan
 ** A, C = Iron; B, D = Constantan

MS/Standard contact arrangements

front face of pin insert or rear face of socket insert illustrated

						
Insert Arrangement	18-29	18-30	18-31	20-2	20-3	20-4
Service Rating	A	A	A	D	D	D
Number of Contacts	5	5	5	1	3	4
Contact Size	16	16	16	0	12	12

						
Insert Arrangement	20-6	20-7	20-8	20-9	20-11	20-12
Service Rating	D	A, B, H, G = D; C, D, E, F = A	Inst.	H = D; Bal. = A	Inst.	A
Number of Contacts	3	8	2 4	1 7	13	1 1
Contact Size	16	16	8 16	12 16	16	4 16

						
Insert Arrangement	20-14	20-15	20-16	20-17	20-18	20-19
Service Rating	A	A	A	A	A	A
Number of Contacts	2 3	7	2 7	5 1	3 6	3
Contact Size	8 12	12	12 16	12 16	12 16	8

CONTACT LEGEND

⊕

⊖

⦿

○

⊗

16

12

8

4

0

MS/Standard contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	20-20	20-21	20-22	20-23	20-24	20-25
Service Rating	A	A	A	A	A	Inst.
Number of Contacts	1 3	1 8	3 3	2	2 2	13
Contact Size	4 12	12 16	8 16	8	8 16	16

Insert Arrangement	20-27	20-29	20-30	20-33	22-1	22-2
Service Rating	A	A	Inst.	A	D	D
Number of Contacts	14	17	13	11	2	3
Contact Size	16	16	16	16	8	8

Insert Arrangement	22-4	22-5	22-6	22-7	22-8
Service Rating	A	D	D	E	E
Number of Contacts	2 2	2 4	2 1	1	2
Contact Size	8 12	12 16	8 16	0	12

CONTACT LEGEND

⊕

◐

●

○

⊗

16

12

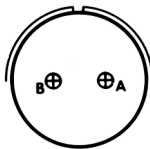
8

4

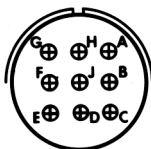
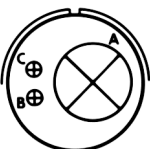
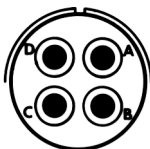
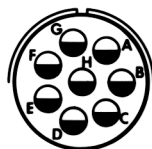
0

MS/Standard contact arrangements

front face of pin insert or rear face of socket insert illustrated

					
Insert Arrangement	22-9	22-10	22-11	22-12	22-13
Service Rating	E	E	B	D	E = D; A, B, C, D = A
Number of Contacts	3	4	2	2 3	4 1
Contact Size	12	16	16	8 16	12 16

					
Insert Arrangement	22-14	22-15	22-16	22-17	22-18
Service Rating	A	D = E; A, B, C, E, F = A	A	A = D; Bal. = A	A, B, F, G, H = D; C, D, E = A
Number of Contacts	19	5 1	3 6	1 8	8
Contact Size	16	12 16	12 16	12 16	16

					
Insert Arrangement	22-19	22-20	22-21	22-22	22-23
Service Rating	A	A	A	A	H = D; Bal. = A
Number of Contacts	14	9	1 2	4	8
Contact Size	16	16	0 16	8	12



16



12



8



4



0

CONTACT LEGEND

MS/Standard

contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	22-24	22-27	22-28	22-33	22-34
Service Rating	C, D, E = D; A, B, F = A	J = D; Bal. = A	A	A, B, C, D = D; E, F, G = A	D
Number of Contacts	2 4	1 8	7	7	3 2
Contact Size	12 16	8 16	12	16	12 16

Insert Arrangement	24-2	24-3	24-5	24-6	24-7
Service Rating	D	D	A	A, G, H = D; Bal. = A	A
Number of Contacts	7	2 5	16	8	2 14
Contact Size	12	12 16	16	12	12 16

Insert Arrangement	24-9	24-10	24-11	24-12	24-16
Service Rating	A	A	A	A	A, B, F, G = D; C, D, E = A
Number of Contacts	2	7	3 6	2 3	1 3 3
Contact Size	4	8	8 12	4 12	8 12 16

0

4

8

12

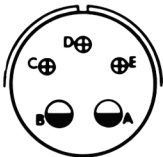
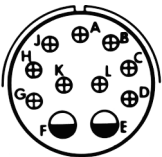
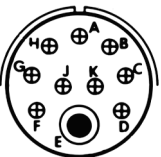
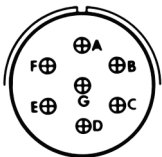
16

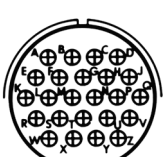
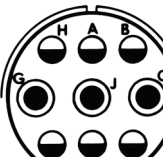
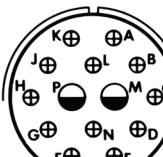
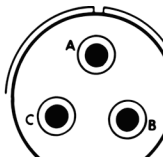
CONTACT LEGEND

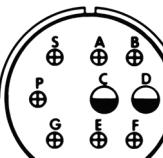
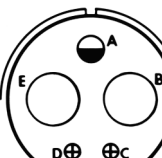
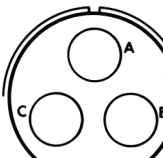
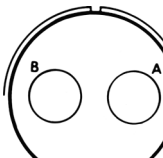
MS/Standard

contact arrangements

front face of pin insert or rear face of socket insert illustrated

					
Insert Arrangement	24-17	24-20	24-21	24-22	24-27
Service Rating	D	D	D	D	E
Number of Contacts	2 3	2 9	1 9	4	7
Contact Size	12 16	12 16	8 16	8	16

				
Insert Arrangement	24-28	28-1	28-2	28-3
Service Rating	Inst.	A, J, E = D; Bal. = A	D	E
Number of Contacts	24	3 6	2 12	3
Contact Size	16	8 12	12 16	8

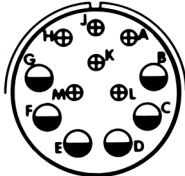
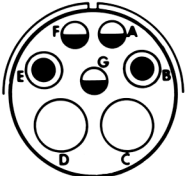
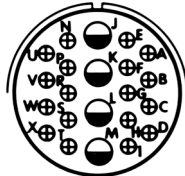
				
Insert Arrangement	28-4	28-5	28-6	28-7
Service Rating	G, P, S = E; Bal. = D	D	D	D
Number of Contacts	2 7	2 1 2	3	2
Contact Size	12 16	4 12 16	4	4

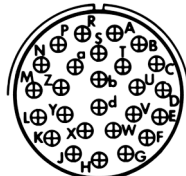
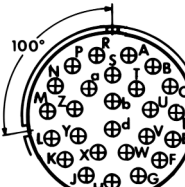
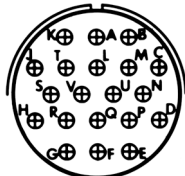


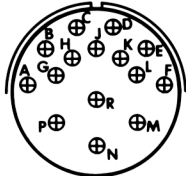
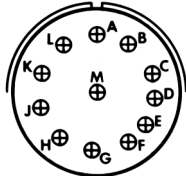
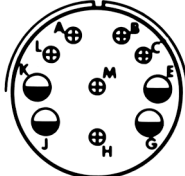
MS/Standard

contact arrangements

front face of pin insert or rear face of socket insert illustrated

				
Insert Arrangement	28-8	28-9	28-10	28-11
Service Rating	L, M = E; B = D; Bal. = A	D	G = D; Bal. = A	A
Number of Contacts	2 10	6 6	2 2 3	4 18
Contact Size	12 16	12 16	4 8 12	12 16

				
		100° Rotation of 28-12		
Insert Arrangement	28-12	28-13	28-15	28-16
Service Rating	A	A	A	A
Number of Contacts	26	26	35	20
Contact Size	16	16	16	16

			
Insert Arrangement	28-17	28-18	28-19
Service Rating	R = B; M, N, P = D; A to L = A	M = C; G, H, J, K, L = D; A, B = A; Bal. = Inst.	H, M = B; A, B = D; Bal. = A
Number of Contacts	15	12	4 6
Contact Size	16	16	12 16

⊕

⊖

⦿

○

⊗

CONTACT LEGEND

16

12

8

4

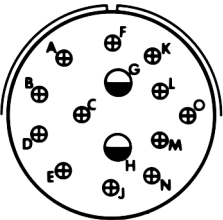
0

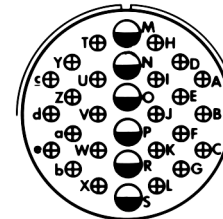
MS/Standard

contact arrangements

front face of pin insert or rear face of socket insert illustrated

				
Insert Arrangement	28-20	28-21	28-22	32-1
Service Rating	A	A	D	A = E; B, C, D, E = D
Number of Contacts	10 4	37	3 3	2 3
Contact Size	12 16	16	4 16	0 12

				
Insert Arrangement	32-2	32-3	32-4	32-5
Service Rating	E	D	F, J, K, N = A; Bal. = D	D
Number of Contacts	3 2	1 2 2 4	2 12	2
Contact Size	4 16	0 4 12 16	12 16	0

				
Insert Arrangement	32-6	32-7	32-8	32-9
Service Rating	A	A, B, h, j = Inst.; Bal. = A	A	D
Number of Contacts	2 3 2 16	7 28	6 24	2 12
Contact Size	4 8 12 16	12 16	12 16	4 16

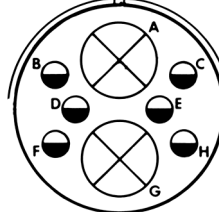


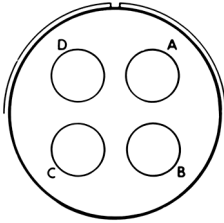
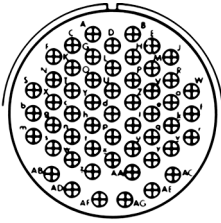
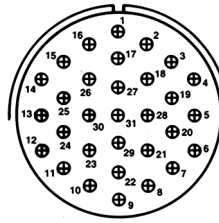
CONTACT LEGEND
16
12
8
4
0

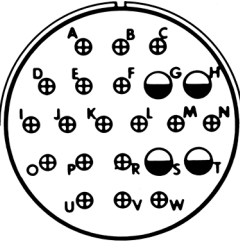
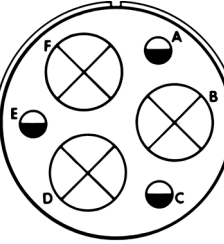
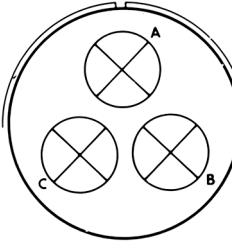
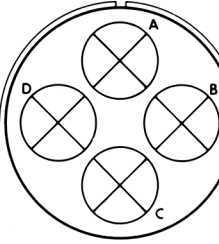
MS/Standard

contact arrangements

front face of pin insert or rear face of socket insert illustrated

				
Insert Arrangement	32-10	32-12	32-13	32-15
Service Rating	A, F = E; G = B; B, E = D; C, D = A	C, D, E, F, G = A; Bal. = D	D	D
Number of Contacts	2 2 3	5 10	5 18	2 6
Contact Size	4 8 16	12 16	12 16	0 12

				
	100° Rotation of 32-6			
Insert Arrangement	32-16	32-17	32-22	32-31
Service Rating	A	D	A	A
Number of Contacts	2 3 2 16	4	54	31
Contact Size	4 8 12 16	4	16	16

				
Insert Arrangement	36-1	36-3	36-4	36-5
Service Rating	D	D	A = D; B, C = A	A
Number of Contacts	4 18	3 3	3	4
Contact Size	12 16	0 12	0	0

⊕

⊖

⦿

○

⊗

CONTACT LEGEND

16

12

8

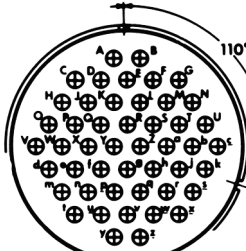
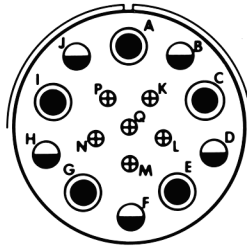
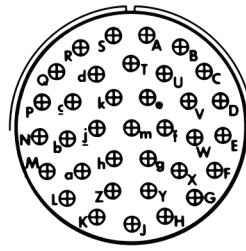
4

0

MS/Standard

contact arrangements

front face of pin insert or rear face of socket insert illustrated

				
Insert Arrangement	36-6	36-7	36-8	36-9
Service Rating	A	A	A	A
Number of Contacts	2 4	7 40	1 46	1 2 14 14
Contact Size	0 4	12 16	12 16	4 8 12 16
				
Insert Arrangement	36-10	36-11	36-12	
Service Rating	A	A	A	
Number of Contacts	48	48	48	
Contact Size	16	16	16	
				
Insert Arrangement	36-13	36-14	36-15	
Service Rating	N, P, Q = E; Bal. = A	D	M = D; Bal. = A	
Number of Contacts	2 15	5 5 6	35	
Contact Size	12 16	8 12 16	16	

⊕

16

⊖

12

⦿

8

○

4

⊗

0

CONTACT LEGEND

MS/Standard contact arrangements

front face of pin insert or rear face of socket insert illustrated

100° Rotation
of 36-7

36-16

A

Service Rating	A
Number of Contacts	7 40
Contact Size	12 16

110° Rotation
of 36-7

36-17

A

Service Rating	A
Number of Contacts	7 40
Contact Size	12 16

100° Rotation
of 36-9

36-18

A

Service Rating	A
Number of Contacts	1 2 14 14
Contact Size	4 8 12 16

36-20

A

Service Rating	A
Number of Contacts	2 2 30
Contact Size	8 12 16

36-52

A

Service Rating	A
Number of Contacts	52
Contact Size	16

40-1

D

Service Rating	D
Number of Contacts	6 24
Contact Size	12 16

40-9

A

Service Rating	A
Number of Contacts	1 22 24
Contact Size	8 12 16

40-56

A

Service Rating	A
Number of Contacts	85
Contact Size	16

CONTACT LEGEND

16 12 8 4 0

Special contact arrangements

Requirements for more complex circuits prompted Amphenol to provide inserts not covered by the MS drawings. Illustrated here and on the following pages are insert layouts which have from one contact (high tension) to the 62 contact insert in shell size 40.

Many of these special inserts are also available in alternate keyway arrangements. Please contact Amphenol, Sidney, NY for additional information on special circuit application requirements.

front face of pin insert or rear face of socket insert illustrated

						
Insert Arrangement	14-A7	16-59	20-51	20-57	20-58	20-59
Service Rating	A	A	A	A	A	A
Number of Contacts	7	4	3*	7*	5 5	3*
Contact Size	16	12	8	12 for #14 or 16 wire	12 16	8 for #10 or 12 wire

					
Insert Arrangement	20-66	20-79	22-63	22-65	22-70
Service Rating	A	H = D; Bal. = A	A	H = D; Bal. = A	A
Number of Contacts	1 5	7* 1*	4 8	8*	8 5
Contact Size	16 12 for #10 wire	16 12 for #16 wire	12 16	12 for #14 or 16 wire	12 16

					
Insert Arrangement	22-80	24-51	24-52	24-53	24-58
Service Rating	A	A	Hi-Volt	A	A
Number of Contacts	3*	5*	1	5*	3 3 7
Contact Size	8 for #10 or 12 wire	B, E for AN #10 or 12 wire A, C, D for AN #8 wire	12	8	8 12 16

* Solderless

CONTACT LEGEND



16



12



8



4



0

Special contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	24-59	24-60	24-65	24-66	24-67
Service Rating	A	A	A	D	Inst.
Number of Contacts	7 7	7*	11 4	7	19
Contact Size	12 16	8 for #10 or 12 wire	12 16	12	12

Insert Arrangement	24-71	24-75	24-79	24-80	24-84
Service Rating	A	A	A	Inst.	A
Number of Contacts	2* 5*	5 2	5	23	1 18
Contact Size	8 8 for #10 or 12 wire	8 8 for #16 wire	8	16	12 12 (Coax) RG-188/U or RG-174/U

Insert Arrangement	24-96	24-AJ	28-51	28-59	28-66
Service Rating	Inst.	A	A	A	A
Number of Contacts	28	25	12	7 10	2 14
Contact Size	16	16	12	12 16	8 12

* Solderless

CONTACT LEGEND

⊕

◐

◑

○

⊗

16

12

8

4

0

Special contact arrangements

front face of pin insert or rear face of socket insert illustrated

				
Insert Arrangement	28-72	28-74	28-75	28-79
Service Rating	–	A	A	A
Number of Contacts	3	9* 4* 3*	9* 7*	7 9
Contact Size	4 (Coax) RG-59A/U or RG-62A/U	16 8 8 for #10 wire (S, T, R)	16 8 for #10 wire	8 16
				
Insert Arrangement	28-82	28-84	28-AY	32-25
Service Rating	D	A	A	A
Number of Contacts	2 4	9	4 5	25
Contact Size	8 12	8	4 16	12
				
Insert Arrangement	32-52	32-53	32-56	32-57
Service Rating	D	t, u = E; Bal. = Inst.	A	**
Number of Contacts	6 2	5 37	24 6	6 2
Contact Size	12 0	12 16	16 12 for #10 wire	12 0 (Coax) RG-71/U

* Solderless
 ** Consult Amphenol, Sidney, NY for service rating of power contacts.

CONTACT LEGEND

⊕

◐

◑

○

⊗

16

12

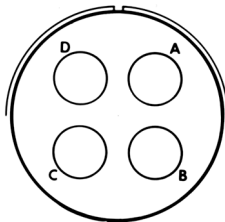
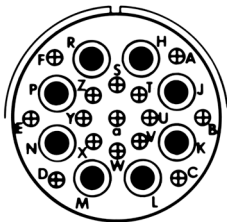
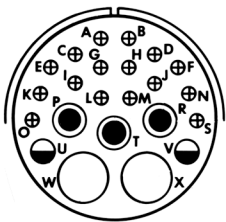
8

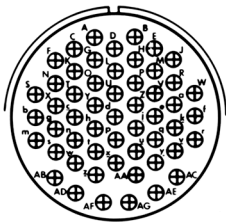
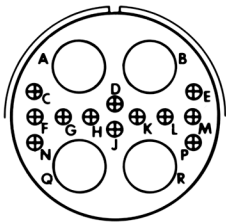
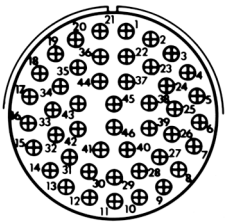
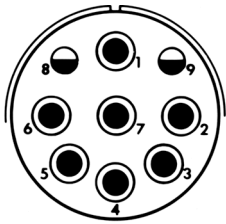
4

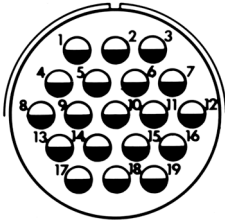
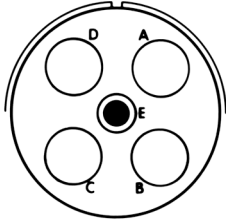
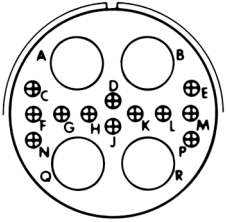
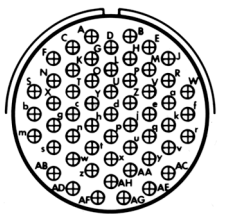
0

Special contact arrangements

front face of pin insert or rear face of socket insert illustrated

			
Insert Arrangement	32-58	32-60	32-62
Service Rating	—	A	**
Number of Contacts	4	15 8	2 1 2 16 2
Contact Size	4 (Coax) RG-161/U or RG-179/U	16 8 (Coax) RG-124/U	4 8 12 16 8 (Coax) RG-124/U

				
Insert Arrangement	36-64	32-68	32-73	32-75
Service Rating	Inst.	A	A	8, 9 = D
Number of Contacts	54	12 4	46	2 7
Contact Size	16	16 4 (Coax) RG-58C/U	16	12 8 (Coax) RG-180B/U

				
Insert Arrangement	32-76	32-79	38-82	32-AF
Service Rating	A	D	A	A
Number of Contacts	19	4 1	4 12	55
Contact Size	12	4 8	4 16	16

** Consult Amphenol, Sidney, NY for service rating of power contacts.

CONTACT LEGEND

⊕

◐

◑

○

⊗

16

12

8

4

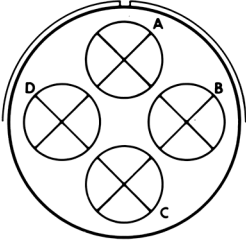
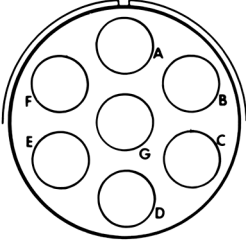
0

Special contact arrangements

front face of pin insert or rear face of socket insert illustrated

			
Insert Arrangement	36-51	36-54	36-55
Service Rating	D	A	A
Number of Contacts	2 2	8 31	31 8
Contact Size	0 4	8 16	16 8 for #6 wire

			
Insert Arrangement	36-59	36-60	36-64
Service Rating	A	**	—
Number of Contacts	50 3	40 7	4
Contact Size	16 12 for #10 wire	16 12 for #10 wire	0 (Coax) RG-11/U, RG-12/U or RG-13/U

			
Insert Arrangement	36-65	36-71	36-73
Service Rating	—	A	—
Number of Contacts	4	3 50	7
Contact Size	0 (Coax) RG-59/U, RG-62/U or RG-71/U	12 16	4 (Coax) RG-62B/U

** Consult Amphenol, Sidney, NY for service rating of power contacts.

CONTACT LEGEND

⊕

1612840

Special contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	36-74
Service Rating	A
Number of Contacts	43 1
Contact Size	16 8 (Coax) RG-187/U



Insert Arrangement	36-75
Service Rating	A
Number of Contacts	48
Contact Size	16 for #14 wire



Insert Arrangement	36-76
Service Rating	A
Number of Contacts	47
Contact Size	16



Insert Arrangement	36-77
Service Rating	D
Number of Contacts	7
Contact Size	4



Insert Arrangement	36-78
Service Rating	A
Number of Contacts	2 12
Contact Size	16 8



Insert Arrangement	36-79
Service Rating	A
Number of Contacts	20
Contact Size	12



Insert Arrangement	36-80
Service Rating	A
Number of Contacts	20
Contact Size	12 for #10 wire



Insert Arrangement	36-83
Service Rating	-
Number of Contacts	7
Contact Size	4 (Coax) RG-58/U



Insert Arrangement	36-85
Service Rating	M = D; Bal. = A
Number of Contacts	35
Contact Size	16 for #12 wire



CONTACT LEGEND

⊕

◐

◑

○

⊗

16

12

8

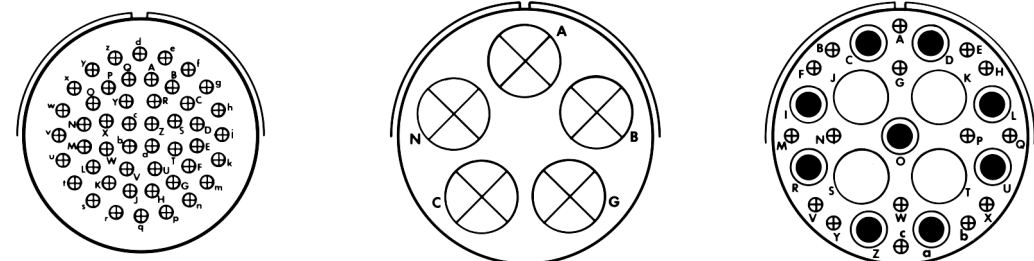
4

0

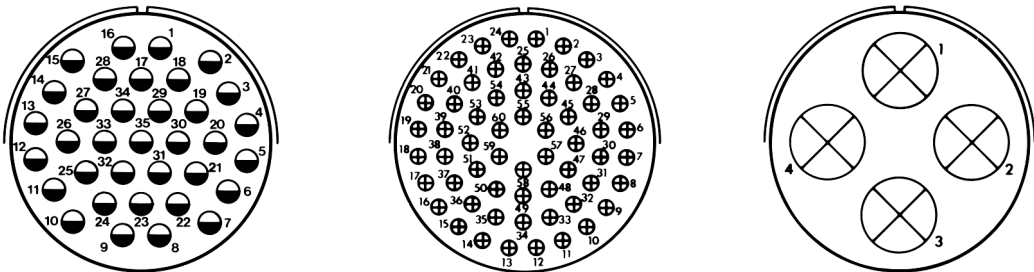
Special contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	36-AF	40-5	40-10
Service Rating	A	A	A
Number of Contacts	48	5	4 9 16
Contact Size	16	0	4 8 16



Insert Arrangement	40-35	40-53	40-57
Service Rating	D	A	E
Number of Contacts	35	60	4
Contact Size	12	16	0



Insert Arrangement	40-61	40-62	40-63
Service Rating	A	A	A
Number of Contacts	1 3 55	60	61
Contact Size	8 12 16	16	16 for #14 wire



⊕

◐

◑

○

⊗

CONTACT LEGEND

16

12

8

4

0

Special contact arrangements

front face of pin insert or rear face of socket insert illustrated



Insert Arrangement	40-64
Service Rating	—
Number of Contacts	3 20 13
Contact Size	12 16 8 (Coax) RG-124/U



Insert Arrangement	40-66
Service Rating	—
Number of Contacts	4
Contact Size	0 (Coax) RG-63 B/U



Insert Arrangement	40-67
Service Rating	A
Number of Contacts	1 10
Contact Size	16 4 (Coax) RG-59/U



Insert Arrangement	40-68
Service Rating	A
Number of Contacts	21
Contact Size	8



Insert Arrangement	40-70
Service Rating	A
Number of Contacts	61
Contact Size	16



Insert Arrangement	40-72
Service Rating	A
Number of Contacts	1 10
Contact Size	16 4 (Coax) RG-9B/U



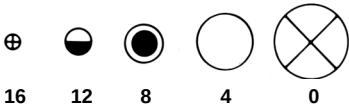
Insert Arrangement	40-73
Service Rating	A
Number of Contacts	61
Contact Size	16



Insert Arrangement	40-74
Service Rating	A
Number of Contacts	1 1 4
Contact Size	12 4 (Coax) RG-62/U 0 (Coax) RG-9B/U or RG-214/U



Insert Arrangement	40-75
Service Rating	E
Number of Contacts	1 4
Contact Size	12 0



Special contact arrangements

front face of pin insert or rear face of socket insert illustrated



Insert Arrangement	40-80
Service Rating	A
Number of Contacts	1 10
Contact Size	16 4



Insert Arrangement	40-81
Service Rating	A
Number of Contacts	62
Contact Size	16 for #14 wire



Insert Arrangement	40-82
Service Rating	A
Number of Contacts	62
Contact Size	16



Insert Arrangement	40-85
Service Rating	A
Number of Contacts	60
Contact Size	16 for #14 wire



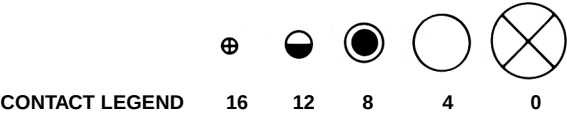
Insert Arrangement	40-86
Service Rating	-
Number of Contacts	4
Contact Size	0 (Coax) RG-115A/U



Insert Arrangement	40-87
Service Rating	D
Number of Contacts	7
Contact Size	4



Insert Arrangement	40-AG
Service Rating	A
Number of Contacts	38
Contact Size	12



Thermocouple

contact availability

A complete line of cylindrical connectors containing thermocouple insert arrangements is available. The contact layout for a particular arrangement will be found in either the MS/Standard contact arrangement section, pages 26-37, or the Special contact arrangement section, pages 38-48. All thermocouple contact layouts may contain either iron, alumel, chromel, constantan, standard (copper) or brass (dummy) contacts. See the thermocouple tabulations on the following pages.

The following abbreviations are used in the contact material column in the charts that follow. Also, thermocouple contacts are color coded as shown. (This identification is made by means of small dots of stain on the solder well end of the contact).

Abbreviation	Material	Color Code
Ir.	Iron	Black
Con.	Constantan	Yellow
Cu.	Copper Alloy	N/A
Ch.	Chromel	White
Al.	Alumel	Green
Dummy	Brass	N/A

WIRE WELL DATA

Contact Size	Well Inside Dia. +.004 -.002	Well Depth +.031 -.000	Solder Well Barrel Outside Dia.
12	.125	.250	.166 ±.003
16	.094	.188	.125 +.002 -.004

RECOMMENDED WIRE

I Chromel - Alumel	Use wire in accordance with MIL-W-5848
II Iron - Constantan	Use wire in accordance with MIL-W-5845

Thermocouple

contact arrangements

Shell Size and Arrg.	Similar to MS Arrg.	Total Contacts	Contact Size		Pin Insert Rotation C W	Contact Material
			12	16		
10SL-51	10SL-4	2		2	45°	A = Ir.; B = Con.
10SL-52	10SL-4	2		2	45°	A = Cu.; B = Con.
10SL-53	10SL-4	2		2	45°	A = Al.; B = Ch.
10SL-54	10SL-3	3		3	None	A = Ir.; B = Con.; C = Cu.
10SL-55	10SL-3	3		3	None	A = Al.; B = Ch.; C = Cu.
10SL-56	10SL-4	2		2	None	A = Al.; B = Ch.
10SL-57	10SL-4	2		2	None	A = Ch.; B = Con.
10SL-58	10SL-3	3		3	None	A = Ch.; B = Al.; C = Cu.
10SL-59	10SL-4	2		2	None	A = Ch.; B = Al.
10SL-60	10SL-4	2		2	None	A = Ir.; B = Con.
10SL-61	10SL-4	2		2	None	A = Cu.; B = Con.
10SL-62	10SL-3	3		3	None	A = Cu.; B = Al.; C = Ir.
10SL-63	10SL-3	3		3	None	A, C = Con.; B = Ch.
10SL-64	10SL-3	3		3	None	A, C = Ch.; B = Al.
12S-51	12S-3	2		2	315°	A = Ch.; B = Al.
12S-54	12S-3	2		2	315°	A = Ir.; B = Con.
12S-55	12S-3	2		2	45°	A = Cu.; B = Con.
12S-56	12S-3	2		2	None	A = Al.; B = Ch.
12S-57	12S-3	2		2	60°	A = Ch.; B = Al.
12S-58	12S-3	2		2	120°	A = Ir.; B = Con.
12S-59	12S-3	2		2	None	A = Ir.; B = Con.
12S-60	12S-3	2		2	None	A = Cu.; B = Con.
12S-61	12S-3	2		2	None	A = Ch.; B = Con.
12S-62	12S-3	2		2	None	A = Ch.; B = Al.
14S-51	14S-9	2		2	90°	A = Al.; B = Ch.
14S-52	14S-2	4		4	45°	A, B = Cu.; C = Al.; D = Ch.
14S-53	14S-9	2		2	90°	A = Ir.; B = Con.
14S-54	14S-6	6		6	45°	A, C, E = Ir.; B, D, F = Con.
14S-55	14S-2	4		4	45°	A, C = Ir.; B, D = Con.
14S-56	14S-2	4		4	45°	A = Ir.; B = Con.; C, D = Cu.
14S-57	14S-2	4		4	45°	A, C = Al.; B, D = Ch.
14S-58	14S-7	3		3	45°	A = Al.; B = Ch.; C = Cu.
14S-59	14S-9	2		2	90°	A = Cu.; B = Con.
14S-60	14S-9	2		2	None	A = Al.; B = Ch.
14S-61	14S-6	6		6	45°	A = Al.; B = Ch.; C = Ir.; D = Con.; E, F = Cu.
14S-63	14S-6	6		6	None	A, C = Al.; B, D = Ch.; E = Ir.; F = Con.
14S-64	14S-2	4		4	None	A, C = Con.; B, D = Cu.
14S-65	14S-6	6		6	None	A, C, E = Cu.; B, D, F = Con.
14S-67	14S-6	6		6	None	A = Al.; B = Ch.; Balance = Cu.
14S-68	14S-2	4		4	45°	A = Ch.; B = Con.; C, D = Cu.
14S-69	14S-7	3		3	None	A = Con.; B = Ch.; C = Cu.
14S-70	14S-2	4		4	None	A, D = Ch.; B, C = Al.
14S-71	14S-2	4		4	None	A, B, D = Cu.; C = Con.
14S-72	14S-9	2		2	None	A = Con.; B = Cu.
14S-73	14S-2	4		4	None	A, B = Cu.; C = Al.; D = Ch.

Thermocouple

contact arrangements

Shell Size and Arrg.	Similar to MS Arrg.	Total Contacts	Contact Size		Pin Insert Rotation C W	Contact Material
			12	16		
14S-74	14S-2	4		4	None	A, B = Ch.; C, D = Al.
14S-75	14S-2	4		4	None	A, B = Cu.; C, D = Con.
14S-76	14S-2	4		4	None	A, C = Al.; B, D = Ch.
14S-77	14S-2	4		4	None	A, D = Al.; B, C = Ch.
14S-78	14S-9	2		2	None	A = Ch.; B = Al.
16S-52	16S-4	2		2	None	A = Ch.; B = Al.
16S-54	16S-1	7		7	None	A = Al.; B = Ch.; Balance = Cu.
16S-55	16S-1	7		7	None	A = Con.; Balance = Cu.
16-52	16-11	2	2		90°	A = Al.; B = Ch.
16-53	16-9	4	2	2	70°	A = Al.; C = Ch.; B, D = Cu.
16-55	16-10	3	3		45°	A = Al.; B = Ch.; C = Cu.
16-56	16-13	2	2		90°	A = Con.; B = Cu.
16-57	16-10	3	3		None	A = Al.; B = Cu.; C = Ch.
16-58	16-10	3	3		None	A = Con.; B, C = Cu.
16-60	16-13	2	2		None	A = Al.; B = Ch.
16-62	16-11	2	2		None	A = Con.; B = Cu.
18-51	18-12	6		6	None	A = Ir.; B, E = Con.; D = Cu.; C, F = Dummy
18-52	18-11	5	5		None	A = Ir.; B = Con.; C = Ch.; D = Al.; E = Dummy
18-53	18-12	6		6	None	A, D = Ir.; B, E = Con.; C, F = Dummy
18-54	18-15	4	4		None	A, C = Al.; B, D = Ch.
18-56	18-1	10		10	45°	A, C, E, G, I = Ir.; B, D, F, H, J = Con.
18-57	18-12	6		6	45°	A, C, E = Al.; B, D, F = Ch.
18-59	18-12	6		6	45°	A, C = Ir.; B, E, F = Con.; D = Cu.
18-60	18-11	5	5		45°	A, D = Al.; B, C, = Ch.; E = Cu.
18-61	18-12	6		6	None	A, C = Ir.; B, D = Con.; E = Ch.; F = Al.
18-62	18-12	6		6	None	A, B, C = Ir.; D, E, F = Con.
18-63	18-15	4	4		None	A, C = Con.; B, D = Cu.
18-65	18-12	6		6	None	A = Ir.; B = Con.; Balance = Cu.
18-66	18-1	10		10	None	A, C, E, G, I = Cu.; B, D, F, H, J = Con.
18-67	18-12	6		6	None	A, C, E = Cu.; B, D, F = Con.
18-68	18-11	5	5		None	A, D = Al.; B, C = Ch.; E = Cu.
18-69	18-1	10		10	None	A = Al.; B = Ch.; Balance = Cu.
18-70	18-11	5	5		None	A = Ir.; B = Con.; C = Ch.; D = Al.; E = Cu.
18-71	18-15	4	4		None	A = Con.; Balance = Cu.
18-72	18-15	4	4		None	D = Con.; Balance = Cu.
18-73	18-9	7	2	5	None	A = Al.; D = Ch.; Balance = Cu.
18-74	18-12	6		6	None	A = Ch.; B = Al.; D = Ir.; E = Cu.; C, F = Con.
20-52	20-4	4	4		315°	A = Ir.; B = Con.; C = Ch.; D = Al.
20-56	20-7	8		8	45°	A, B, G, H = Ir.; C, D, E, F = Con.
20-60	20-7	8		8	45°	D = Ch.; E = Al.; Balance = Cu.
20-61	20-29	17		17	45°	A, B, M = Cu.; Balance = Con.
20-62	20-15	7	7		80°	A, C, E = Al.; B, D, F = Ch.; G = Cu.
20-64	20-27	14		14	None	A = Al.; C = Ch.; Balance = Cu.

Thermocouple

contact arrangements

Shell Size and Arrg.	Similar to MS Arrg.	Total Contacts	Contact Size		Pin Insert Rotation C W	Contact Material
			12	16		
20-65	20-27	14		14	None	A, B, C, D, E, F, G = Ir.; H, I, J, K, L, M, N = Con.
20-67	20-16	9	2	7	None	H = Al.; I = Ch.; Balance = Cu.
20-68	20-7	8		8	None	A, B, G, H = Con.; C, D, E, F = Cu.
20-69	20-27	14		14	None	A, B, C, D, E, F, G = Cu.; H, I, J, K, L, M, N = Con.
20-70	20-29	17		17	None	A, C, E, G, J, L, N, R, T = Ir.; B, D, F, H, K, M, P, S = Con.
20-71	20-29	17		17	None	S = Al.; R = Ch.; Balance = Cu.
20-74	20-29	17		17	None	A, C, E, G, J, L, N, R = Ir.; B, D, F, H, K, M, P, S = Con.; T = Cu.
20-75	20-15	7	7		None	G = Al.; Balance = Ch.
20-77	20-16	9	2	7	None	A = Con.; Balance = Std.
20-80	20-27	14		14	None	A, C, E, G, I, K, M = Cu.; B, D, F, H, J, L, N = Con.
20-81	20-27	14		14	None	A, C, E, G, I, K, M = Ch.; B, D, F, H, J, L, N = Al.
20-82	20-29	17		17	None	A, C, E, G, J, L, N, R = Al.; B, D, F, H, K, M, P, S = Ch.; T = Cu.
22-57	22-14	19		19	45°	A, C, E, G, J, L, N, R = Ir.; B, D, F, H, K, M, P, S = Con.; T, U, V = Cu.
22-60	22-14	19		19	45°	U = Al.; N = Ch.; Balance = Cu.
22-62	22-23	8	8		60°	A, B, F, G = Al.; C, D, E, H = Ch.
22-68	22-19	14		14	45°	A, C, E, G, J, L, M = Ir.; B, D, F, H, K, P, N = Con.
22-69	22-19	14		14	45°	A, C, E, G, J, L, M = Cu.; B, D, F, H, K, P, N = Con.
22-71	22-14	19		19	None	V = Al.; U = Ch.; Balance = Cu.
22-72	22-5	6	2	4	None	B = Al.; E = Ch.; Balance = Cu.
22-73	22-5	6	2	4	None	E = Al.; B = Ch.; Balance = Cu.
22-74	22-23	8	8		None	A, C, E, G = Ir.; B, D, F, H = Con.
22-75	22-23	8	8		None	A = Al.; B, D, G, H = Cu.; C = Ch.; E = Ir.; F = Con.
22-76		21		21	None	W = Con.; Balance = Cu.
22-77	22-19	14		14	None	B, D, F, H, J, K, M, P = Cu.; A, E, L = Ir.; C, G, N = Con.
22-78	22-14	19		19	None	A, C, E, G, H, K, M, P, R, T = Con.; Balance = Cu.
22-79	22-10	4		4	None	A, C, = Con.; B, D = Cu.
24-56	24-20	11	2	9	45°	E = Al.; F = Ch.; Balance = Cu.
24-57	24-28	24		24	45°	A, C, J, V, Y, W, K, E, H, U, S, M = Ch.; Balance = Al.
24-62	24-28	24		24	None	A, C, E, G = Ir.; B, D, F, H = Con.; R, T = Ch.; S, U = Al.; Balance = Cu.
24-63	24-28	24		24	None	A, C, E, G, J, L, K, N, S, U, W, Y = Cu.; B, D, F, H, Q, R, M, P, T, V, X, Z = Con.
24-64	24-5	16		16	None	A, B, C, D, E, F, G, H = Ir.; J, K, L, M, N, P, R, S = Con.
24-68	24-28	24		24	None	D = Con.; Balance = Cu.
24-81	24-7	16	2	14	None	A, C, E, G, I, K, M, N, P = Cu.; B, D, F, H, J, L, O = Con.
28-53	28-11	22	4	18	45°	J, L = Al.; K, M = Ch.; Balance = Cu.
28-58	28-20	14	10	4	45°	A, C, E, G, K, M = Al.; B, D, F, H, L, N = Ch.; J, P = Cu.
28-61	28-21	37		37	45°	A, C, J, Z, m, r, n, a, K, F, H, X, k, h, T, M, N, d = Ir.; Balance = Con.
28-63	28-20	14	10	4	45°	A, C, E, G, J = Al.; B, D, F, H, P = Ch.; Balance = Cu.
28-64	28-15	35		35	None	A, d = Al.; B, j = Ch.; C, D, E, F, G, N, P, R, S, H, J, K, L, M, W, X, Y, Z = Con.; Balance = Cu.
28-65	28-12	26		26	None	A, C, E, G, J, L, N, R, T, V = Ir.; X, Z = Al.; B, D, F, H, K, M, P, S, U, W = Con.; Y, a = Ch.; b, d = Cu.
28-67	28-16	20		20	None	U = Con.; Balance = Cu.
28-68	28-15	35		35	45°	T = Al.; U = Ch.; Balance = Cu.
28-69	28-11	22	4	18	None	G = Al.; R = Ch.; Balance = Cu.

Thermocouple contact arrangements

[illegible]

* Amphenol arrangement

GT Connector Classes

GT00A

wall mount receptacle for front panel mounting

- Four through mounting holes or optional threaded holes
- Includes backshell for accessory attachment
- Without grommet and cable clamp
- Non-environment proof



Inches

Shell Size	B Thread Class 2A	F Min.	K Min.	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000
10SL	.6250-24 UNEF	.409	.374	1.969	.559	.717	.110	.717	1.000	.126
14S	.7500-20 UNEF	.520	.374	1.969	.559	.969	.126	.906	1.181	.126
16S	.8750-20 UNEF	.638	.374	1.969	.559	1.079	.126	.969	1.280	.126
16	.8750-20 UNEF	.638	.374	2.362	.748	1.079	.126	.969	1.280	.126
18	1.0000-20 UNEF	.756	.374	2.362	.748	1.213	.157	1.063	1.378	.126
20	1.1875-18 UNEF	.867	.374	2.362	.748	1.346	.157	1.157	1.496	.126
22	1.1875-18 UNEF	.965	.374	2.362	.748	1.472	.157	1.252	1.614	.126
24	1.4375-18 UNEF	1.094	.374	2.560	.811	1.610	.157	1.374	1.752	.146
28	1.4375-18 UNEF	1.228	.374	2.560	.811	1.839	.157	1.563	2.000	.146
32	1.7500-18 UNS	1.488	.433	2.560	.874	2.102	.157	1.752	2.244	.169
36	2.0000-18 UNS	1.780	.465	3.150	.874	2.346	.157	1.937	2.500	.169
40	2.2500-16 UN	2.016	.465	3.150	.874	2.579	.157	2.185	2.752	.169

Millimeters

Shell Size	F Min.	K Min.	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0
10SL	10.4	9.5	50	14.2	18.2	2.8	18.2	25.4	3.2
14S	13.2	9.5	50	14.2	24.6	3.2	23.0	30.0	3.2
16S	16.2	9.5	50	14.2	27.4	3.2	24.6	32.5	3.2
16	16.2	9.5	60	19.0	27.4	3.2	24.6	32.5	3.2
18	19.2	9.5	60	19.0	30.8	4.0	27.0	35.0	3.2
20	22.0	9.5	60	19.0	34.2	4.0	29.4	38.0	3.2
22	24.5	9.5	60	19.0	37.4	4.0	31.8	41.0	3.2
24	27.8	9.5	65	20.6	40.9	4.0	34.9	44.5	3.7
28	31.2	9.5	65	20.6	46.7	4.0	39.7	50.8	3.7
32	37.8	11.0	65	22.2	53.4	4.0	44.5	57.0	4.3
36	45.2	11.8	80	22.2	59.6	4.0	49.2	63.5	4.3
40	51.2	11.8	80	22.2	65.5	4.0	55.5	69.9	4.3

All dimensions for reference only.

GT00AF/00F

wall mount receptacle for front panel mounting

GT00AF

- Without grommet
- Cable clamp included
- Non-environment proof
- Four through mounting holes or optional threaded holes

GT00F

- With wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof
- Four through mounting holes or optional threaded holes



Inches

Shell Size	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000	Z Max.	KK Max.	LL Max.
10SL	2.362	.559	.717	.110	.717	1.000	.126	.220	.894	4.720
14S	2.440	.559	.969	.126	.906	1.181	.126	.312	1.083	4.720
16S	2.756	.559	1.079	.126	.969	1.280	.126	.437	1.181	4.720
16	2.756	.748	1.079	.126	.969	1.280	.126	.437	1.181	4.921
18	3.031	.748	1.213	.157	1.063	1.378	.126	.562	1.300	4.921
20	3.031	.748	1.346	.157	1.157	1.496	.126	.625	1.476	4.921
22	3.031	.748	1.472	.157	1.252	1.614	.126	.625	1.476	4.921
24	3.346	.811	1.610	.157	1.374	1.752	.146	.750	1.705	4.921
28	3.346	.811	1.839	.157	1.563	2.000	.146	.750	1.705	4.921
32	3.346	.874	2.102	.157	1.752	2.244	.169	.937	2.035	4.921
36	4.133	.874	2.346	.157	1.937	2.500	.169	1.250	2.283	5.315
40	5.118	.874	2.579	.157	2.185	2.752	.169	1.375	2.579	5.709

Millimeters

Shell Size	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0	Z Max.	KK Max.	LL Max.
10SL	60	14.2	18.2	2.8	18.2	25.4	3.2	5.58	22.7	120
14S	62	14.2	24.6	3.2	23.0	30.0	3.2	7.92	27.5	120
16S	70	14.2	27.4	3.2	24.6	32.5	3.2	11.09	30.0	120
16	70	19.0	27.4	3.2	24.6	32.5	3.2	11.09	30.0	125
18	77	19.0	30.8	4.0	27.0	35.0	3.2	14.27	33.0	125
20	77	19.0	34.2	4.0	29.4	38.0	3.2	15.87	37.5	125
22	77	19.0	37.4	4.0	31.8	41.0	3.2	15.87	37.5	125
24	85	20.6	40.9	4.0	34.9	44.5	3.7	19.05	43.3	125
28	85	20.6	46.7	4.0	39.7	50.8	3.7	19.05	43.3	125
32	85	22.2	53.4	4.0	44.5	57.0	4.3	23.79	51.7	125
36	105	22.2	59.6	4.0	49.2	63.5	4.3	31.75	58.0	135
40	130	22.2	65.5	4.0	55.5	69.9	4.3	34.92	65.5	145

All dimensions for reference only.

GT00CF/00CFZ

wall mount receptacle for front panel mounting

GT00CF

- Without individual wire sealing grommet
- Environment proof
- Four through mounting holes or optional threaded holes
- Includes clamp to grip and seal jacketed cable

GT00CFZ

- Same as GT00CF except: individual wire sealing grommet included for added moisture protection
- Environment proof
- Four through mounting holes or optional threaded holes
- Includes clamp to grip and seal jacketed cable



Inches

Shell Size	L Approx.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000	Z	
								Open	Closed
10SL	2.740	.559	.717	.110	.717	1.000	.126	.312	.094
14S	2.898	.559	.969	.126	.906	1.181	.126	.438	.230
16S	2.898	.559	1.079	.126	.969	1.280	.126	.531	.315
16	3.217	.748	1.079	.126	.969	1.280	.126	.531	.315
18	3.307	.748	1.213	.157	1.063	1.378	.126	.625	.378
20	3.311	.748	1.346	.157	1.157	1.496	.126	.748	.445
22	3.350	.748	1.472	.157	1.252	1.614	.126	.748	.445
24	3.484	.811	1.610	.157	1.374	1.752	.146	.937	.610
28	3.736	.811	1.839	.157	1.563	2.000	.146	.937	.610
32	4.142	.874	2.102	.157	1.752	2.244	.169	1.250	.921
36	4.390	.874	2.346	.157	1.937	2.500	.169	1.378	.921
40	4.988	.874	2.579	.157	2.185	2.752	.169	1.624	1.177

Millimeters

Shell Size	L Approx.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0	Z	
								Open	Closed
10SL	69.6	14.2	18.2	2.8	18.2	25.4	3.2	7.93	2.38
14S	73.6	14.2	24.6	3.2	23.0	30.0	3.2	11.12	5.84
16S	73.6	14.2	27.4	3.2	24.6	32.5	3.2	13.48	8.00
16	81.7	19.0	27.4	3.2	24.6	32.5	3.2	13.48	8.00
18	84.0	19.0	30.8	4.0	27.0	35.0	3.2	15.87	9.60
20	84.1	19.0	34.2	4.0	29.4	38.0	3.2	19.00	11.30
22	85.1	19.0	37.4	4.0	31.8	41.0	3.2	19.00	11.30
24	88.5	20.6	40.9	4.0	34.9	44.5	3.7	23.80	15.50
28	94.9	20.6	46.7	4.0	39.7	50.8	3.7	23.80	15.50
32	105.9	22.2	53.4	4.0	44.5	57.0	4.3	31.75	23.40
36	111.5	22.2	59.6	4.0	49.2	63.5	4.3	35.00	23.40
40	126.7	22.2	65.5	4.0	55.5	69.9	4.3	41.25	29.90

All dimensions for reference only.

GT00G

wall mount receptacle for front panel mounting

- Four through mounting holes or optional threaded holes
- Includes backshell with individual wire sealing grommet
- For use with heat-shrink tubing
- Environment proof



Inches

Shell Size	J ± .008	K ± .020	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000	Z Min.	BB Max.	JJ ± .008	KK ± .008
10SL	.138	.461	1.969	.559	.717	.110	.717	1.000	.126	.303	.524	.610	.669
14S	.138	.461	1.969	.559	.969	.126	.906	1.181	.126	.417	.669	.752	.791
16S	.138	.461	1.969	.559	1.079	.126	.969	1.280	.126	.531	.862	.941	.925
16	.138	.453	2.362	.748	1.079	.126	.969	1.280	.126	.531	.862	.941	.925
18	.138	.453	2.362	.748	1.213	.157	1.063	1.378	.126	.575	.862	.941	1.043
20	.138	.500	2.559	.748	1.346	.157	1.157	1.496	.126	.736	1.031	1.165	1.189
22	.138	.500	2.559	.748	1.472	.157	1.252	1.614	.126	.819	1.031	1.165	1.323
24	.138	.500	2.559	.811	1.610	.157	1.374	1.752	.146	.969	1.358	1.488	1.421
28	.138	.500	2.559	.811	1.839	.157	1.563	2.000	.146	1.062	1.358	1.488	1.630
32	.138	.598	2.756	.874	2.102	.157	1.752	2.244	.169	1.311	1.717	1.882	1.913
36	.138	.598	3.150	.874	2.346	.157	1.937	2.500	.169	1.516	1.717	1.882	2.157
40	.138	.610	3.150	.874	2.579	1.57	2.185	2.752	.169	1.898	2.071	2.276	2.402

Millimeters

Shell Size	J ± 0.2	K ± 0.5	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0	Z Min.	B Max.	JJ ± 0.2	KK ± 0.2
10SL	3.5	11.7	50	14.2	18.2	2.8	18.2	25.4	3.2	7.7	13.3	15.5	17.0
14S	3.5	11.7	50	14.2	24.6	3.2	23.0	30.0	3.2	10.6	17.0	19.1	20.1
16S	3.5	11.7	50	14.2	27.4	3.2	24.6	32.5	3.2	13.5	21.9	23.9	23.5
16	3.5	11.5	60	19.0	27.4	3.2	24.6	32.5	3.2	13.5	21.9	23.9	23.5
18	3.5	11.5	60	19.0	30.8	4.0	27.0	35.0	3.2	14.6	21.9	23.9	26.5
20	3.5	12.7	65	19.0	34.2	4.0	29.4	38.0	3.2	18.7	26.2	29.6	30.2
22	3.5	12.7	65	19.0	37.4	4.0	31.8	41.0	3.2	20.8	26.2	29.6	33.6
24	3.5	12.7	65	20.6	40.9	4.0	34.9	44.5	3.7	24.6	34.5	37.8	36.1
28	3.5	12.7	65	20.6	46.7	4.0	39.7	50.8	3.7	27.0	34.5	37.8	41.4
32	3.5	15.2	70	22.2	53.4	4.0	44.5	57.0	4.3	33.3	43.6	47.8	48.6
36	3.5	15.2	80	22.2	59.6	4.0	49.2	63.5	4.3	38.5	43.6	47.8	54.8
40	3.5	15.5	80	22.2	65.5	4.0	55.5	69.9	4.3	48.2	52.6	57.8	61.0

All dimensions for reference only.

GT00LCF/00LCFZ

wall mount receptacle for front panel mounting

GT00LCF

- Includes a backshell with extended length to provide more working room for stripped jacketed cable
- Environment proof
- Four through mounting holes or optional threaded holes
- Includes clamp to grip and seal jacketed cable

GT00LCFZ

- Same as GT00LCF except: individual wire sealing grommet included for added moisture protection
- Environment proof
- Four through mounting holes or optional threaded holes
- Includes clamp to grip and seal jacketed cable



Inches

Shell Size	L Approx.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000	Z	
								Open	Closed
10SL	3.811	.559	.717	.110	.717	1.000	.126	.312	.094
14S	3.843	.559	.969	.126	.906	1.181	.126	.438	.230
16S	3.843	.559	1.079	.126	.969	1.280	.126	.531	.315
16	4.217	.748	1.079	.126	.969	1.280	.126	.531	.315
18	4.409	.748	1.213	.157	1.063	1.378	.126	.625	.378
20	4.409	.748	1.346	.157	1.157	1.496	.126	.748	.445
22	4.413	.748	1.472	.157	1.252	1.614	.126	.748	.445
24	4.535	.811	1.610	.157	1.374	1.752	.146	.937	.610
28	4.744	.811	1.839	.157	1.563	2.000	.146	.937	.610
32	5.079	.874	2.102	.157	1.752	2.244	.169	1.250	.921
36	5.327	.874	2.346	.157	1.937	2.500	.169	1.378	.921
40	5.327	.874	2.579	.157	2.185	2.752	.169	1.624	1.177

Millimeters

Shell Size	L Approx.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0	Z	
								Open	Closed
10SL	96.8	14.2	18.2	2.8	18.2	25.4	3.2	7.93	2.38
14S	97.6	14.2	24.6	3.2	23.0	30.0	3.2	11.12	5.84
16S	97.6	14.2	27.4	3.2	24.6	32.5	3.2	13.48	8.00
16	107.1	19.0	27.4	3.2	24.6	32.5	3.2	13.48	8.00
18	112.0	19.0	30.8	4.0	27.0	35.0	3.2	15.87	9.60
20	112.0	19.0	34.2	4.0	29.4	38.0	3.2	19.00	11.30
22	112.1	19.0	37.4	4.0	31.8	41.0	3.2	19.00	11.30
24	115.2	20.6	40.9	4.0	34.9	44.5	3.7	23.80	15.50
28	120.5	20.6	46.7	4.0	39.7	50.8	3.7	23.80	15.50
32	129.0	22.2	53.4	4.0	44.5	57.0	4.3	31.75	23.40
36	135.3	22.2	59.6	4.0	49.2	63.5	4.3	35.00	23.40
40	135.3	22.2	65.5	4.0	55.5	69.9	4.3	41.25	29.90

All dimensions for reference only.

GT00R

wall mount receptacle for front panel mounting

- Four through mounting holes or optional threaded holes
- With individual wire sealing grommet
- Includes backshell for conduit termination
- Environment proof



Inches

Shell Size	B Thread Class 2A	F Min.	K Min.	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000
10SL	.6250-24 UNEF	.409	.374	1.969	.559	.717	.110	.717	1.000	.126
14S	.7500-20 UNEF	.520	.374	1.969	.559	.969	.126	.906	1.181	.126
16S	.8750-20 UNEF	.638	.374	1.969	.559	1.079	.126	.969	1.280	.126
16	.8750-20 UNEF	.638	.374	2.362	.748	1.079	.126	.969	1.280	.126
18	1.0000-20 UNEF	.756	.374	2.362	.748	1.213	.157	1.063	1.378	.126
20	1.1875-18 UNEF	.866	.374	2.362	.748	1.346	.157	1.157	1.496	.126
22	1.1875-18 UNEF	.965	.374	2.362	.748	1.472	.157	1.252	1.614	.126
24	1.4375-18 UNEF	1.094	.374	2.559	.811	1.610	.157	1.374	1.752	.146
28	1.4375-18 UNEF	1.228	.374	2.559	.811	1.839	.157	1.563	2.000	.146
32	1.7500-18 UNS	1.488	.433	2.559	.874	2.102	.157	1.752	2.244	.169
36	2.0000-18 UNS	1.780	.465	3.150	.874	2.346	.157	1.937	2.500	.169
40	2.2500-16 UN	2.016	.465	3.150	.874	2.579	.157	2.185	2.752	.169

Millimeters

Shell Size	F Min.	K Min.	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0
10SL	10.4	9.5	50	14.2	18.2	2.8	18.2	25.4	3.2
14S	13.2	9.5	50	14.2	24.6	3.2	23.0	30.0	3.2
16S	16.2	9.5	50	14.2	27.4	3.2	24.6	32.5	3.2
16	16.2	9.5	60	19.0	27.4	3.2	24.6	32.5	3.2
18	19.2	9.5	60	19.0	30.8	4.0	27.0	35.0	3.2
20	22.0	9.5	60	19.0	34.2	4.0	29.4	38.0	3.2
22	24.5	9.5	60	19.0	37.4	4.0	31.8	41.0	3.2
24	27.8	9.5	65	20.6	40.9	4.0	34.9	44.5	3.7
28	31.2	9.5	65	20.6	46.7	4.0	39.7	50.8	3.7
32	37.8	11.0	65	22.2	53.4	4.0	44.5	57.0	4.3
36	45.2	11.8	80	22.2	59.6	4.0	49.2	63.5	4.3
40	51.2	11.8	80	22.2	65.5	4.0	55.5	69.9	4.3

All dimensions for reference only.

GT00RV

wall mount receptacle for front panel mounting

- Four through mounting holes or optional threaded holes
- Includes wire sealing grommet
- For use with individual wires
- Environment proof



Inches

Shell Size	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000	KK Max.
10SL	1.890	.559	.717	.110	.717	1.000	.126	.787
14S	1.890	.559	.969	.126	.906	1.181	.126	.945
16S	1.890	.559	1.079	.126	.969	1.280	.126	1.024
16	2.205	.748	1.079	.126	.969	1.280	.126	1.024
18	2.244	.748	1.213	.157	1.063	1.378	.126	1.161
20	2.244	.748	1.346	.157	1.157	1.496	.126	1.299
22	2.244	.748	1.472	.157	1.252	1.614	.126	1.417
24	2.244	.811	1.610	.157	1.374	1.752	.146	1.575
28	2.244	.811	1.839	.157	1.563	2.000	.146	1.811
32	2.362	.874	2.102	.157	1.752	2.244	.169	2.028
36	2.362	.874	2.346	.157	1.937	2.500	.169	2.283
40	2.362	.874	2.579	.157	2.185	2.752	.169	2.539

Millimeters

Shell Size	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0	KK Max.
10SL	48.0	14.2	18.2	2.8	18.2	25.4	3.2	20.0
14S	48.0	14.2	24.6	3.2	23.0	30.0	3.2	24.0
16S	48.0	14.2	27.4	3.2	24.6	32.5	3.2	26.0
16	56.0	19.0	27.4	3.2	24.6	32.5	3.2	26.0
18	57.0	19.0	30.8	4.0	27.0	35.0	3.2	29.5
20	57.0	19.0	34.2	4.0	29.4	38.0	3.2	33.0
22	57.0	19.0	37.4	4.0	31.8	41.0	3.2	36.0
24	57.0	20.6	40.9	4.0	34.9	44.5	3.7	40.0
28	57.0	20.6	46.7	4.0	39.7	50.8	3.7	46.0
32	60.0	22.2	53.4	4.0	44.5	57.0	4.3	51.5
36	60.0	22.2	59.6	4.0	49.2	63.5	4.3	58.0
40	60.0	22.2	65.5	4.0	55.5	69.9	4.3	64.5

All dimensions for reference only.

GT01A

inline receptacle

- Includes backshell for accessory attachment
- Without wire sealing grommet and cable clamp
- Non-environment proof



Inches

Shell Size	B Thread Class 2A	F Min.	K Min.	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	Q ± .008	S Max.
10SL	.6250-24 UNEF	.409	.374	1.969	.559	.717	.110	.811	.992
14S	.7500-20 UNEF	.520	.374	1.969	.559	.969	.126	1.000	1.173
16S	.8750-20 UNEF	.638	.374	1.969	.559	1.079	.126	1.126	1.272
16	.8750-20 UNEF	.638	.374	2.362	.748	1.079	.126	1.126	1.272
18	1.0000-20 UNEF	.756	.374	2.362	.748	1.213	.157	1.248	1.370
20	1.1875-18 UNEF	.867	.374	2.362	.748	1.346	.157	1.374	1.488
22	1.1875-18 UNEF	.965	.374	2.362	.748	1.472	.157	1.500	1.618
24	1.4375-18 UNEF	1.094	.374	2.560	.811	1.610	.157	1.626	1.756
28	1.4375-18 UNEF	1.228	.374	2.560	.811	1.839	.157	1.874	2.004
32	1.7500-18 UNS	1.488	.433	2.560	.874	2.102	.157	2.126	2.248
36	2.0000-18 UNS	1.780	.465	3.150	.874	2.346	.157	2.386	2.504
40	2.2500-16 UN	2.016	.465	3.150	.874	2.579	.157	2.618	2.756

Millimeters

Shell Size	F Min.	K Min.	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	Q ± 0.2	S Max.
10SL	10.4	9.5	50	14.2	18.2	2.8	20.6	25.2
14S	13.2	9.5	50	14.2	24.6	3.2	25.4	29.8
16S	16.2	9.5	50	14.2	27.4	3.2	28.6	32.3
16	16.2	9.5	60	19.0	27.4	3.2	28.6	32.3
18	19.2	9.5	60	19.0	30.8	4.0	31.7	34.8
20	22.0	9.5	60	19.0	34.2	4.0	34.9	37.8
22	24.5	9.5	60	19.0	37.4	4.0	38.1	41.1
24	27.8	9.5	65	20.6	40.9	4.0	41.3	44.6
28	31.2	9.5	65	20.6	46.7	4.0	47.6	50.9
32	37.8	11.0	65	22.2	53.4	4.0	54.0	57.1
36	45.2	11.8	80	22.2	59.6	4.0	60.6	63.6
40	51.2	11.8	80	22.2	65.5	4.0	66.5	70.0

All dimensions for reference only.

GT01AF/01F

inline receptacle

GT01AF

- With cable clamp
- Wire sealing grommet not included
- Non-environment proof

GT01F

- With wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof



Inches

Shell Size	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	Q ± .008	S Max.	Z Nominal	KK Max.	LL Max.
10SL	2.362	.559	.717	.110	.811	.992	.220	.894	4.720
14S	2.441	.559	.969	.126	1.000	1.173	.312	1.083	4.720
16S	2.756	.559	1.079	.126	1.126	1.272	.437	1.181	4.720
16	2.756	.748	1.079	.126	1.126	1.272	.437	1.181	4.921
18	3.031	.748	1.213	.157	1.248	1.370	.562	1.300	4.921
20	3.031	.748	1.346	.157	1.374	1.488	.625	1.476	4.921
22	3.031	.748	1.472	.157	1.500	1.618	.625	1.476	4.921
24	3.346	.811	1.610	.157	1.626	1.756	.750	1.705	4.921
28	3.346	.811	1.839	.157	1.874	2.004	.750	1.705	4.921
32	3.346	.874	2.102	.157	2.126	2.248	.937	2.035	4.921
36	4.134	.874	2.346	.157	2.386	2.504	1.250	2.283	5.315
40	5.118	.874	2.579	.157	2.618	2.756	1.375	2.579	5.709

Millimeters

Shell Size	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	Q ± 0.2	S Max.	Z Nominal	KK Max.	LL Max.
10SL	60	14.2	18.2	2.8	20.6	25.2	5.58	22.7	120
14S	62	14.2	24.6	3.2	25.4	29.8	7.92	27.5	120
16S	70	14.2	27.4	3.2	28.6	32.3	11.09	30.0	120
16	70	19.0	27.4	3.2	28.6	32.3	11.09	30.0	125
18	77	19.0	30.8	4.0	31.7	34.8	14.27	33.0	125
20	77	19.0	34.2	4.0	34.9	37.8	15.87	37.5	125
22	77	19.0	37.4	4.0	38.1	41.1	15.87	37.5	125
24	85	20.6	40.9	4.0	41.3	44.6	19.05	43.3	125
28	85	20.6	46.7	4.0	47.6	50.9	19.05	43.3	125
32	85	22.2	53.4	4.0	54.0	57.1	23.79	51.7	125
36	105	22.2	59.6	4.0	60.6	63.6	31.75	58.0	135
40	130	22.2	65.5	4.0	66.5	70.0	34.92	65.5	145

All dimensions for reference only.

GT01G

inline receptacle

- Includes wire sealing grommet
- For use with heat-shrink tubing
- Environment proof



Inches

Shell Size	J ± .008	K ± .020	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	Q ± .008	S Max.	Z Min.	BB Max.	JJ ± .008	KK ± .008
10SL	.138	.461	1.969	.559	.717	.110	.811	.992	.303	.524	.610	.669
14S	.138	.461	1.969	.559	.969	.126	1.000	1.173	.417	.669	.752	.791
16S	.138	.461	1.969	.559	1.079	.126	1.126	1.272	.531	.862	.941	.925
16	.138	.453	2.362	.748	1.079	.126	1.126	1.272	.531	.862	.941	.925
18	.138	.453	2.362	.748	1.213	.157	1.248	1.370	.575	.862	.941	1.043
20	.138	.500	2.559	.748	1.346	.157	1.374	1.488	.736	1.031	1.165	1.189
22	.138	.500	2.559	.748	1.472	.157	1.500	1.618	.819	1.031	1.165	1.323
24	.138	.500	2.559	.811	1.610	.157	1.626	1.756	.969	1.358	1.488	1.421
28	.138	.500	2.559	.811	1.839	.157	1.874	2.004	1.063	1.358	1.488	1.630
32	.138	.598	2.756	.874	2.102	.157	2.126	2.248	1.311	1.717	1.882	1.913
36	.138	.598	3.150	.874	2.346	.157	2.386	2.504	1.516	1.717	1.882	2.157
40	.138	.610	3.150	.874	2.579	1.57	2.618	2.756	1.898	2.071	2.276	2.402

Millimeters

Shell Size	J ± 0.2	K ± 0.5	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	Q ± 0.2	S Max.	Z Min.	B Max.	JJ ± 0.2	KK ± 0.2
10SL	3.5	11.7	50	14.2	18.2	2.8	20.6	25.2	7.7	13.3	15.5	17.0
14S	3.5	11.7	50	14.2	24.6	3.2	25.4	29.8	10.6	17.0	19.1	20.1
16S	3.5	11.7	50	14.2	27.4	3.2	28.6	32.3	13.5	21.9	23.9	23.5
16	3.5	11.5	60	19.0	27.4	3.2	28.6	32.3	13.5	21.9	23.9	23.5
18	3.5	11.5	60	19.0	30.8	4.0	31.7	34.8	14.6	21.9	23.9	26.5
20	3.5	12.7	65	19.0	34.2	4.0	34.9	37.8	18.7	26.2	29.6	30.2
22	3.5	12.7	65	19.0	37.4	4.0	38.1	41.1	20.8	26.2	29.6	33.6
24	3.5	12.7	65	20.6	40.9	4.0	41.3	44.6	24.6	34.5	37.8	36.1
28	3.5	12.7	65	20.6	46.7	4.0	47.6	50.9	27.0	34.5	37.8	41.4
32	3.5	15.2	70	22.2	53.4	4.0	54.0	57.1	33.3	43.6	47.8	48.6
36	3.5	15.2	80	22.2	59.6	4.0	60.6	63.6	38.5	43.6	47.8	54.8
40	3.5	15.5	80	22.2	65.5	4.0	66.5	70.0	48.2	52.6	57.8	61.0

All dimensions for reference only.

GT01LCF/01LCFZ

inline receptacle

GT01LCF

- Long backshell provides more working room for stripped jacketed cable
- Includes cable clamp to grip and seal jacketed cable
- Environment proof

GT01LCFZ

- Same as GT01LCF except: individual wire sealing grommet included for added moisture protection
- Environment proof



Inches

Shell Size	L Approx.	M + .016 - .000	N + .000 - .006	P ± .008	Q ± .008	S Max.	Z	
							Open	Closed
10SL	3.811	.559	.717	.110	.811	.992	.312	.094
14S	3.843	.559	.969	.126	1.000	1.173	.438	.230
16S	3.843	.559	1.079	.126	1.126	1.272	.531	.315
16	4.217	.748	1.079	.126	1.126	1.272	.531	.315
18	4.409	.748	1.213	.157	1.248	1.370	.625	.378
20	4.409	.748	1.346	.157	1.374	1.488	.748	.445
22	4.413	.748	1.472	.157	1.500	1.618	.748	.445
24	4.535	.811	1.610	.157	1.626	1.756	.937	.610
28	4.744	.811	1.839	.157	1.874	2.004	.937	.610
32	5.079	.874	2.102	.157	2.126	2.248	1.250	.921
36	5.327	.874	2.346	.157	2.386	2.504	1.378	.921
40	5.327	.874	2.579	.157	2.618	2.756	1.624	1.177

Millimeters

Shell Size	L Approx.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	Q ± 0.2	S Max.	Z	
							Open	Closed
10SL	96.8	14.2	18.2	2.8	20.6	25.2	7.93	2.38
14S	97.6	14.2	24.6	3.2	25.4	29.8	11.12	5.84
16S	97.6	14.2	27.4	3.2	28.6	32.3	13.48	8.00
16	107.1	19.0	27.4	3.2	28.6	32.3	13.48	8.00
18	112.0	19.0	30.8	4.0	31.7	34.8	15.87	9.60
20	112.0	19.0	34.2	4.0	34.9	37.8	19.00	11.30
22	112.1	19.0	37.4	4.0	38.1	41.1	19.00	11.30
24	115.2	20.6	40.9	4.0	41.3	44.6	23.80	15.50
28	120.5	20.6	46.7	4.0	47.6	50.9	23.80	15.50
32	129.0	22.2	53.4	4.0	54.0	57.1	31.75	23.40
36	135.3	22.2	59.6	4.0	60.6	63.6	35.00	23.40
40	135.3	22.2	65.5	4.0	66.5	70.0	41.25	29.90

All dimensions for reference only.

GT01R

inline receptacle

- With individual wire sealing grommet
- Includes backshell for conduit termination
- Environment proof



Inches

Shell Size	B Thread Class 2A	F Min.	K Min.	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	Q ± .008	S Max.
10SL	.6250-24 UNEF	.409	.374	1.969	.559	.717	.110	.811	.992
14S	.7500-20 UNEF	.520	.374	1.969	.559	.969	.126	1.000	1.173
16S	.8750-20 UNEF	.638	.374	1.969	.559	1.079	.126	1.126	1.272
16	.8750-20 UNEF	.638	.374	2.362	.748	1.079	.126	1.126	1.272
18	1.0000-20 UNEF	.756	.374	2.362	.748	1.213	.157	1.248	1.370
20	1.1875-18 UNEF	.867	.374	2.362	.748	1.346	.157	1.374	1.488
22	1.1875-18 UNEF	.965	.374	2.362	.748	1.472	.157	1.500	1.618
24	1.4375-18 UNEF	1.094	.374	2.560	.811	1.610	.157	1.626	1.756
28	1.4375-18 UNEF	1.228	.374	2.560	.811	1.839	.157	1.874	2.004
32	1.7500-18 UNS	1.488	.433	2.560	.874	2.102	.157	2.126	2.248
36	2.0000-18 UNS	1.780	.465	3.150	.874	2.346	.157	2.386	2.504
40	2.2500-16 UN	2.016	.465	3.150	.874	2.579	.157	2.618	2.756

Millimeters

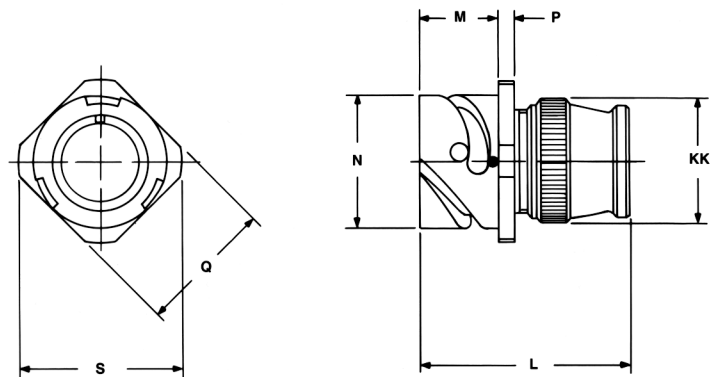
Shell Size	F Min.	K Min.	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	Q ± 0.2	S Max.
10SL	10.4	9.5	50	14.2	18.2	2.8	20.6	25.2
14S	13.2	9.5	50	14.2	24.6	3.2	25.4	29.8
16S	16.2	9.5	50	14.2	27.4	3.2	28.6	32.3
16	16.2	9.5	60	19.0	27.4	3.2	28.6	32.3
18	19.2	9.5	60	19.0	30.8	4.0	31.7	34.8
20	22.0	9.5	60	19.0	34.2	4.0	34.9	37.8
22	24.5	9.5	60	19.0	37.4	4.0	38.1	41.1
24	27.8	9.5	65	20.6	40.9	4.0	41.3	44.6
28	31.2	9.5	65	20.6	46.7	4.0	47.6	50.9
32	37.8	11.0	65	22.2	53.4	4.0	54.0	57.1
36	45.2	11.8	80	22.2	59.6	4.0	60.6	63.6
40	51.2	11.8	80	22.2	65.5	4.0	66.5	70.0

All dimensions for reference only.

GT01RV

inline receptacle

- Includes wire sealing grommet
- For use with individual wires
- Environment proof



Inches

Shell Size	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	Q ± .008	S Max.	KK Max.
10SL	1.890	.559	.717	.110	.811	.992	.787
14S	1.890	.559	.969	.126	1.000	1.173	.945
16S	1.890	.559	1.079	.126	1.126	1.272	1.024
16	2.205	.748	1.079	.126	1.126	1.272	1.024
18	2.244	.748	1.213	.157	1.248	1.370	1.161
20	2.244	.748	1.346	.157	1.374	1.488	1.299
22	2.244	.748	1.472	.157	1.500	1.618	1.417
24	2.244	.811	1.610	.157	1.626	1.756	1.575
28	2.244	.811	1.839	.157	1.874	2.004	1.811
32	2.362	.874	2.102	.157	2.126	2.248	2.028
36	2.362	.874	2.346	.157	2.386	2.504	2.283
40	2.362	.874	2.579	.157	2.618	2.756	2.539

Millimeters

Shell Size	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	Q ± 0.2	S Max.	KK Max.
10SL	48.0	14.2	18.2	2.8	20.6	25.2	20.0
14S	48.0	14.2	24.6	3.2	25.4	29.8	24.0
16S	48.0	14.2	27.4	3.2	28.6	32.3	26.0
16	56.0	19.0	27.4	3.2	28.6	32.3	26.0
18	57.0	19.0	30.8	4.0	31.7	34.8	29.5
20	57.0	19.0	34.2	4.0	34.9	37.8	33.0
22	57.0	19.0	37.4	4.0	38.1	41.1	36.0
24	57.0	20.6	40.9	4.0	41.3	44.6	40.0
28	57.0	20.6	46.7	4.0	47.6	50.9	46.0
32	60.0	22.2	53.4	4.0	54.0	57.1	51.5
36	60.0	22.2	59.6	4.0	60.6	63.6	58.0
40	60.0	22.2	65.5	4.0	66.5	70.0	64.5

All dimensions for reference only.

GT02R/02RFS

box mount receptacle for front panel mounting

GT02R

- Environment proof when mounted with proper panel sealing gasket (see page 73)
- For rear mounting information see page 79

GT02RFS

- Same as GT02R except mounting holes are countersunk to allow mating of plugs with rubber covered coupling nuts



GT02RFS
Countersunk holes required
when mating with GT06CFGG,
page 57 and GT08CFGG,
page 69

Inches

Shell Size	L ± .012	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000	KK Max.
10SL	.972	.559	.717	.110	.717	1.000	.126	.626
14S	.972	.559	.969	.126	.906	1.181	.126	.756
16S	.972	.559	1.079	.126	.969	1.280	.126	.882
16	1.331	.748	1.079	.126	.969	1.280	.126	.882
18	1.331	.748	1.213	.157	1.063	1.378	.126	1.008
20	1.331	.748	1.346	.157	1.157	1.496	.126	1.142
22	1.331	.748	1.472	.157	1.252	1.614	.126	1.268
24	1.406	.811	1.610	.157	1.374	1.752	.146	1.390
28	1.406	.811	1.839	.157	1.563	2.000	.146	1.630
32	1.469	.874	2.102	.157	1.752	2.244	.169	1.882
36	1.469	.874	2.346	.157	1.937	2.500	.169	2.063
40	1.469	.874	2.579	.157	2.185	2.752	.169	2.323

Millimeters

Shell Size	L ± 0.3	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0	KK Max.
10SL	24.7	14.2	18.2	2.8	18.2	25.4	3.2	15.9
14S	24.7	14.2	24.6	3.2	23.0	30.0	3.2	19.2
16S	24.7	14.2	27.4	3.2	24.6	32.5	3.2	22.4
16	33.8	19.0	27.4	3.2	24.6	32.5	3.2	22.4
18	33.8	19.0	30.8	4.0	27.0	35.0	3.2	25.6
20	33.8	19.0	34.2	4.0	29.4	38.0	3.2	29.0
22	33.8	19.0	37.4	4.0	31.8	41.0	3.2	32.2
24	35.7	20.6	40.9	4.0	34.9	44.5	3.7	35.3
28	35.7	20.6	46.7	4.0	39.7	50.8	3.7	41.4
32	37.3	22.2	53.4	4.0	44.5	57.0	4.3	47.8
36	37.3	22.2	59.6	4.0	49.2	63.5	4.3	52.4
40	37.3	22.2	65.5	4.0	55.5	69.9	4.3	59.0

All dimensions for reference only.

GT020R/020RFSM

box mount receptacle for front panel mounting

GT020R

- Threaded rear to accept accessory hardware
- Environment proof when mounted with proper panel sealing gasket (see page 73)
- For rear mounting information see page 79

GT020RFSM

- Same as GT020R except mounting holes are countersunk to allow mating of plugs with rubber covered coupling nuts



GT020RFSM
Countersunk holes required
when mating with GT06CFGG,
page 57 and GT08CFGG,
page 69

Inches

Shell Size	B Thread Class 2A	L ± .012	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000
10SL	.6250-24UNEF	.972	.559	.717	.110	.717	1.000	.126
14S	.7500-20UNEF	.972	.559	.969	.126	.906	1.181	.126
16S	.8750-20UNEF	.972	.559	1.079	.126	.969	1.280	.126
16	.8750-20UNEF	1.331	.748	1.079	.126	.969	1.280	.126
18	1.0000-20UNEF	1.331	.748	1.213	.157	1.063	1.378	.126
20	1.1250-18UNEF	1.331	.748	1.346	.157	1.157	1.496	.126
22	1.2500-18UNEF	1.331	.748	1.472	.157	1.252	1.614	.126
24	1.3750-18UNEF	1.406	.811	1.610	.157	1.374	1.752	.146
28	1.6250-18UNEF	1.406	.811	1.839	.157	1.563	2.000	.146
32	1.8750-16UN	1.469	.874	2.102	.157	1.752	2.244	.169
36	2.0625-16UN	1.469	.874	2.346	.157	1.937	2.500	.169
40	2.3125-16UN	1.469	.874	2.579	.157	2.185	2.752	.169

Millimeters

Shell Size	L ± 0.3	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0
10SL	24.7	14.2	18.2	2.8	18.2	25.4	3.2
14S	24.7	14.2	24.6	3.2	23.0	30.0	3.2
16S	24.7	14.2	27.4	3.2	24.6	32.5	3.2
16	33.8	19.0	27.4	3.2	24.6	32.5	3.2
18	33.8	19.0	30.8	4.0	27.0	35.0	3.2
20	33.8	19.0	34.2	4.0	29.4	38.0	3.2
22	33.8	19.0	37.4	4.0	31.8	41.0	3.2
24	35.7	20.6	40.9	4.0	34.9	44.5	3.7
28	35.7	20.6	46.7	4.0	39.7	50.8	3.7
32	37.3	22.2	53.4	4.0	44.5	57.0	4.3
36	37.3	22.2	59.6	4.0	49.2	63.5	4.3
40	37.3	22.2	65.5	4.0	55.5	69.9	4.3

All dimensions for reference only.

GT030

square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- Threaded rear to accept accessory attachment
- Environment proof when mounted with a proper sealing gasket (see page 73)



Inches

Shell Size	B Thread Class 2A	L $\pm .012$	M $+ .016$ $- .000$	N $+ .000$ $- .006$	P $\pm .008$	R $\pm .004$	S $\pm .012$	T $+ .004$ $- .000$
10SL	.6250-24UNEF	1.087	.717	.717	.110	.717	1.000	.126
14S	.7500-20UNEF	1.087	.717	.969	.126	.906	1.181	.126
16S	.8750-20UNEF	1.087	.717	1.079	.126	.969	1.280	.126
16	.8750-20UNEF	1.331	.846	1.079	.126	.969	1.280	.126
18	1.0000-20UNEF	1.331	.907	1.213	.157	1.063	1.378	.126
20	1.1250-18UNEF	1.331	.907	1.346	.157	1.157	1.496	.126
22	1.2500-18UNEF	1.331	.907	1.472	.157	1.252	1.614	.126
24	1.3750-18UNEF	1.331	.907	1.610	.157	1.374	1.752	.146
28	1.6250-18UNEF	1.406	.947	1.839	.157	1.563	2.000	.146
32	1.8750-16UN	1.469	.947	2.102	.157	1.752	2.244	.169
36	2.0625-16UN	1.469	.947	2.346	.157	1.937	2.500	.169
40	2.3125-16UN	1.469	.947	2.579	.157	2.185	2.752	.169

Millimeters

Shell Size	L ± 0.3	M $+ 0.4$ $- 0.0$	N $+ 0.00$ $- 0.15$	P ± 0.2	R ± 0.1	S ± 0.3	T $+ 0.1$ $- 0.0$
10SL	27.6	18.2	18.2	2.8	18.2	25.4	3.2
14S	27.6	18.2	24.6	3.2	23.0	30.0	3.2
16S	27.6	18.2	27.4	3.2	24.6	32.5	3.2
16	33.8	21.5	27.4	3.2	24.6	32.5	3.2
18	33.8	23.05	30.8	4.0	27.0	35.0	3.2
20	33.8	23.05	34.2	4.0	29.4	38.0	3.2
22	33.8	23.05	37.4	4.0	31.8	41.0	3.2
24	33.8	23.05	40.9	4.0	34.9	44.5	3.7
28	35.7	24.05	46.7	4.0	39.7	50.8	3.7
32	37.3	24.05	53.4	4.0	44.5	57.0	4.3
36	37.3	24.05	59.6	4.0	49.2	63.5	4.3
40	37.3	24.05	65.5	4.0	55.5	69.9	4.3

All dimensions for reference only.

GT030A

square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- Backshell included for accessory attachment
- Without a wire sealing grommet and cable clamp
- Non-environment proof



Inches

Shell Size	B Thread Class 2A	F Min.	K Min.	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000
10SL	.6250-24 UNEF	.409	.374	1.969	.717	.717	.110	.717	1.000	.126
14S	.7500-20 UNEF	.520	.374	1.969	.717	.969	.126	.906	1.181	.126
16S	.8750-20 UNEF	.638	.374	1.969	.717	1.079	.126	.969	1.280	.126
16	.8750-20 UNEF	.638	.374	2.362	.846	1.079	.126	.969	1.280	.126
18	1.0000-20 UNEF	.756	.374	2.362	.907	1.213	.157	1.063	1.378	.126
20	1.1875-18 UNEF	.867	.374	2.362	.907	1.346	.157	1.157	1.496	.126
22	1.1875-18 UNEF	.965	.374	2.362	.907	1.472	.157	1.252	1.614	.126
24	1.4375-18 UNEF	1.094	.374	2.560	.907	1.610	.157	1.374	1.752	.146
28	1.4375-18 UNEF	1.228	.374	2.560	.947	1.839	.157	1.563	2.000	.146
32	1.7500-18 UNS	1.488	.433	2.560	.947	2.102	.157	1.752	2.244	.169
36	2.0000-18 UNS	1.780	.465	3.150	.947	2.346	.157	1.937	2.500	.169
40	2.2500-16 UN	2.016	.465	3.150	.947	2.579	.157	2.185	2.752	.169

Millimeters

Shell Size	F Min.	K Min.	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0
10SL	10.4	9.5	50	18.20	18.2	2.8	18.2	25.4	3.2
14S	13.2	9.5	50	18.20	24.6	3.2	23.0	30.0	3.2
16S	16.2	9.5	50	18.20	27.4	3.2	24.6	32.5	3.2
16	16.2	9.5	60	21.50	27.4	3.2	24.6	32.5	3.2
18	19.2	9.5	60	23.05	30.8	4.0	27.0	35.0	3.2
20	22.0	9.5	60	23.05	34.2	4.0	29.4	38.0	3.2
22	24.5	9.5	60	23.05	37.4	4.0	31.8	41.0	3.2
24	27.8	9.5	65	23.05	40.9	4.0	34.9	44.5	3.7
28	31.2	9.5	65	24.05	46.7	4.0	39.7	50.8	3.7
32	37.8	11.0	65	24.05	53.4	4.0	44.5	57.0	4.3
36	45.2	11.8	80	24.05	59.6	4.0	49.2	63.5	4.3
40	51.2	11.8	80	24.05	65.5	4.0	55.5	69.9	4.3

All dimensions for reference only.

GT030AF/030F

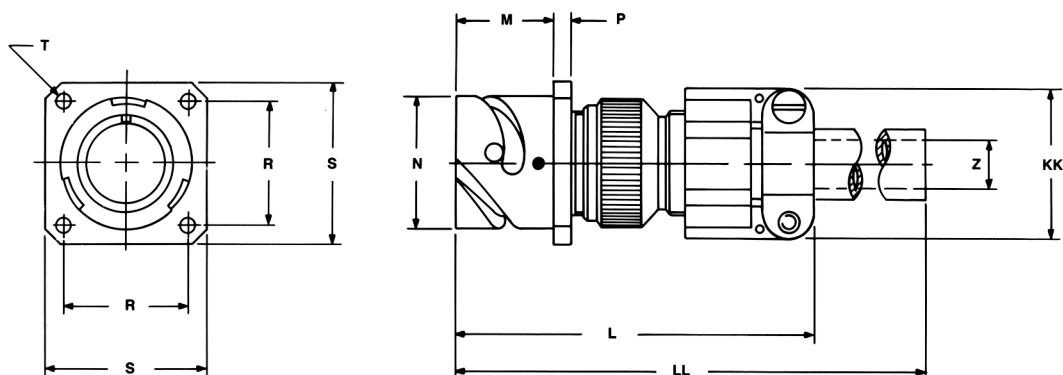
square flange receptacle for rear panel mounting

GT030AF

- Includes a cable clamp
- Wire sealing grommet not included
- Non-environment proof
- Four through mounting holes or optional threaded holes

GT030F

- Includes a wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof
- Four through mounting holes or optional threaded holes



Inches

Shell Size	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000	Z Nominal	KK Max.	LL Max.
10SL	2.362	.717	.717	.110	.717	1.000	.126	.220	.894	4.720
14S	2.440	.717	.969	.126	.906	1.181	.126	.312	1.083	4.720
16S	2.756	.717	1.079	.126	.969	1.280	.126	.437	1.181	4.720
16	2.756	.846	1.079	.126	.969	1.280	.126	.437	1.181	4.921
18	3.031	.907	1.213	.157	1.063	1.378	.126	.562	1.300	4.921
20	3.031	.907	1.346	.157	1.157	1.496	.126	.625	1.476	4.921
22	3.031	.907	1.472	.157	1.252	1.614	.126	.625	1.476	4.921
24	3.346	.907	1.610	.157	1.374	1.752	.146	.750	1.705	4.921
28	3.346	.947	1.839	.157	1.563	2.000	.146	.750	1.705	4.921
32	3.346	.947	2.102	.157	1.752	2.244	.169	.937	2.035	4.921
36	4.134	.947	2.346	.157	1.937	2.500	.169	1.250	2.283	5.315
40	5.118	.947	2.579	.157	2.185	2.752	.169	1.375	2.579	5.709

Millimeters

Shell Size	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0	Z Nominal	KK Max.	LL Max.
10SL	60	18.20	18.2	2.8	18.2	25.4	3.2	5.58	22.7	120
14S	62	18.20	24.6	3.2	23.0	30.0	3.2	7.92	27.5	120
16S	70	18.20	27.4	3.2	24.6	32.5	3.2	11.09	30.0	120
16	70	21.50	27.4	3.2	24.6	32.5	3.2	11.09	30.0	125
18	77	23.05	30.8	4.0	27.0	35.0	3.2	14.27	33.0	125
20	77	23.05	34.2	4.0	29.4	38.0	3.2	15.87	37.5	125
22	77	23.05	37.4	4.0	31.8	41.0	3.2	15.87	37.5	125
24	85	23.05	40.9	4.0	34.9	44.5	3.7	19.05	43.3	125
28	85	24.05	46.7	4.0	39.7	50.8	3.7	19.05	43.3	125
32	85	24.05	53.4	4.0	44.5	57.0	4.3	23.79	51.7	125
36	105	24.05	59.6	4.0	49.2	63.5	4.3	31.75	58.0	135
40	130	24.05	65.5	4.0	55.5	69.9	4.3	34.92	65.5	145

All dimensions for reference only.

GT030G

square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- With wire sealing grommet for individual wires
- Includes backshell for use with heat-shrink tubing
- Environment proof



Inches

Shell Size	J ± .008	K ± .020	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000	Z Min.	BB Max.	JJ ± .008	KK ± .008
10SL	.138	.461	1.969	.717	.717	.110	.717	1.000	.126	.303	.524	.610	.669
14S	.138	.461	1.969	.717	.969	.126	.906	1.181	.126	.417	.669	.752	.791
16S	.138	.461	1.969	.717	1.079	.126	.969	1.280	.126	.531	.862	.941	.925
16	.138	.453	2.362	.846	1.079	.126	.969	1.280	.126	.531	.862	.941	.925
18	.138	.453	2.362	.907	1.213	.157	1.063	1.378	.126	.575	.862	.941	1.043
20	.138	.500	2.559	.907	1.346	.157	1.157	1.496	.126	.736	1.031	1.165	1.189
22	.138	.500	2.559	.907	1.472	.157	1.252	1.614	.126	.819	1.031	1.165	1.323
24	.138	.500	2.559	.907	1.610	.157	1.374	1.752	.146	.969	1.358	1.488	1.421
28	.138	.500	2.559	.947	1.839	.157	1.563	2.000	.146	1.063	1.358	1.488	1.630
32	.138	.598	2.756	.947	2.102	.157	1.752	2.244	.169	1.311	1.717	1.882	1.913
36	.138	.598	3.150	.947	2.346	.157	1.937	2.500	.169	1.516	1.717	1.882	2.157
40	.138	.610	3.150	.947	2.579	1.57	2.185	2.752	.169	1.898	2.071	2.276	2.402

Millimeters

Shell Size	J ± 0.2	K ± 0.5	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0	Z Min.	B Max.	JJ ± 0.2	KK ± 0.2
10SL	3.5	11.7	50	18.20	18.2	2.8	18.2	25.4	3.2	7.7	13.3	15.5	17.0
14S	3.5	11.7	50	18.20	24.6	3.2	23.0	30.0	3.2	10.6	17.0	19.1	20.1
16S	3.5	11.7	50	18.20	27.4	3.2	24.6	32.5	3.2	13.5	21.9	23.9	23.5
16	3.5	11.5	60	21.50	27.4	3.2	24.6	32.5	3.2	13.5	21.9	23.9	23.5
18	3.5	11.5	60	23.05	30.8	4.0	27.0	35.0	3.2	14.6	21.9	23.9	26.5
20	3.5	12.7	65	23.05	34.2	4.0	29.4	38.0	3.2	18.7	26.2	29.6	30.2
22	3.5	12.7	65	23.05	37.4	4.0	31.8	41.0	3.2	20.8	26.2	29.6	33.6
24	3.5	12.7	65	23.05	40.9	4.0	34.9	44.5	3.7	24.6	34.5	37.8	36.1
28	3.5	12.7	65	24.05	46.7	4.0	39.7	50.8	3.7	27.0	34.5	37.8	41.4
32	3.5	15.2	70	24.05	53.4	4.0	44.5	57.0	4.3	33.3	43.6	47.8	48.6
36	3.5	15.2	80	24.05	59.6	4.0	49.2	63.5	4.3	38.5	43.6	47.8	54.8
40	3.5	15.5	80	24.05	65.5	4.0	55.5	69.9	4.3	48.2	52.6	57.8	61.0

All dimensions for reference only.

GT030R

square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- With a wire sealing grommet for individual wires
- Includes backshell for conduit termination
- Environment proof



Inches

Shell Size	B Thread Class 2A	F Min.	K Min.	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000
10SL	.6250-24 UNEF	.409	.374	1.969	.717	.717	.110	.717	1.000	.126
14S	.7500-20 UNEF	.520	.374	1.969	.717	.969	.126	.906	1.181	.126
16S	.8750-20 UNEF	.638	.374	1.969	.717	1.079	.126	.969	1.280	.126
16	.8750-20 UNEF	.638	.374	2.362	.846	1.079	.126	.969	1.280	.126
18	1.0000-20 UNEF	.756	.374	2.362	.907	1.213	.157	1.063	1.378	.126
20	1.1875-18 UNEF	.867	.374	2.362	.907	1.346	.157	1.157	1.496	.126
22	1.1875-18 UNEF	.965	.374	2.362	.907	1.472	.157	1.252	1.614	.126
24	1.4375-18 UNEF	1.094	.374	2.560	.907	1.610	.157	1.374	1.752	.146
28	1.4375-18 UNEF	1.228	.374	2.560	.947	1.839	.157	1.563	2.000	.146
32	1.7500-18 UNS	1.488	.433	2.560	.947	2.102	.157	1.752	2.244	.169
36	2.0000-18 UNS	1.780	.465	3.150	.947	2.346	.157	1.937	2.500	.169
40	2.2500-16 UN	2.016	.465	3.150	.947	2.579	.157	2.185	2.752	.169

Millimeters

Shell Size	F Min.	K Min.	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0
10SL	10.4	9.5	50	18.20	18.2	2.8	18.2	25.4	3.2
14S	13.2	9.5	50	18.20	24.6	3.2	23.0	30.0	3.2
16S	16.2	9.5	50	18.20	27.4	3.2	24.6	32.5	3.2
16	16.2	9.5	60	21.50	27.4	3.2	24.6	32.5	3.2
18	19.2	9.5	60	23.05	30.8	4.0	27.0	35.0	3.2
20	22.0	9.5	60	23.05	34.2	4.0	29.4	38.0	3.2
22	24.5	9.5	60	23.05	37.4	4.0	31.8	41.0	3.2
24	27.8	9.5	65	23.05	40.9	4.0	34.9	44.5	3.7
28	31.2	9.5	65	24.05	46.7	4.0	39.7	50.8	3.7
32	37.8	11.0	65	24.05	53.4	4.0	44.5	57.0	4.3
36	45.2	11.8	80	24.05	59.6	4.0	49.2	63.5	4.3
40	51.2	11.8	80	24.05	65.5	4.0	55.5	69.9	4.3

All dimensions for reference only.

GT030RV

square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- With wire sealing grommet for individual wires
- Environment proof



Inches

Shell Size	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000	KK Max.
10SL	1.890	.717	.717	.110	.717	1.000	.126	.787
14S	1.890	.717	.969	.126	.906	1.181	.126	.945
16S	1.890	.717	1.079	.126	.969	1.280	.126	1.024
16	2.205	.846	1.079	.126	.969	1.280	.126	1.024
18	2.244	.907	1.213	.157	1.063	1.378	.126	1.161
20	2.244	.907	1.346	.157	1.157	1.496	.126	1.299
22	2.244	.907	1.472	.157	1.252	1.614	.126	1.417
24	2.244	.907	1.610	.157	1.374	1.752	.146	1.575
28	2.244	.947	1.839	.157	1.563	2.000	.146	1.811
32	2.362	.947	2.102	.157	1.752	2.244	.169	2.028
36	2.362	.947	2.346	.157	1.937	2.500	.169	2.283
40	2.362	.947	2.579	.157	2.185	2.752	.169	2.539

Millimeters

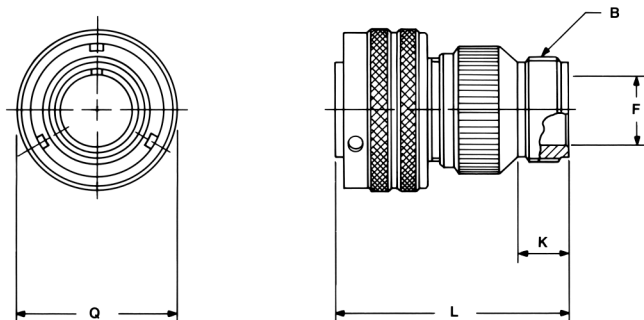
Shell Size	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0	KK Max.
10SL	48.0	18.20	18.2	2.8	18.2	25.4	3.2	20.0
14S	48.0	18.20	24.6	3.2	23.0	30.0	3.2	24.0
16S	48.0	18.20	27.4	3.2	24.6	32.5	3.2	26.0
16	56.0	21.50	27.4	3.2	24.6	32.5	3.2	26.0
18	57.0	23.05	30.8	4.0	27.0	35.0	3.2	29.5
20	57.0	23.05	34.2	4.0	29.4	38.0	3.2	33.0
22	57.0	23.05	37.4	4.0	31.8	41.0	3.2	36.0
24	57.0	23.05	40.9	4.0	34.9	44.5	3.7	40.0
28	57.0	24.05	46.7	4.0	39.7	50.8	3.7	46.0
32	60.0	24.05	53.4	4.0	44.5	57.0	4.3	51.5
36	60.0	24.05	59.6	4.0	49.2	63.5	4.3	58.0
40	60.0	24.05	65.5	4.0	55.5	69.9	4.3	64.5

All dimensions for reference only.

GT06A

straight plug

- Without grommet and cable clamp
- If a cable clamp is required, see pages 76 and 78
- Non-environment proof



Inches

Shell Size	B Thread Class 2A	F Min.	K Min.	L Max.	Q Max.
10SL	.6250-24UNEF	.409	.374	1.969	.898
14S	.7500-20UNEF	.520	.374	1.969	1.150
16S	.8750-20UNEF	.638	.374	1.969	1.260
16	.8750-20UNEF	.638	.374	2.362	1.260
18	1.0000-20UNEF	.756	.374	2.362	1.437
20	1.1875-18UNEF	.867	.374	2.362	1.571
22	1.1875-18UNEF	.965	.374	2.362	1.697
24	1.4375-18UNEF	1.094	.374	2.560	1.835
28	1.4375-18UNEF	1.228	.374	2.560	2.102
32	1.7500-18UNS	1.488	.433	2.560	2.366
36	2.0000-18UNS	1.780	.465	3.150	2.610
40	2.2500-16UN	2.016	.465	3.150	2.850

Millimeters

Shell Size	F Min.	K Min.	L Max.	Q Max.
10SL	10.4	9.5	50	22.8
14S	13.2	9.5	50	29.2
16S	16.2	9.5	50	32.0
16	16.2	9.5	60	32.0
18	19.2	9.5	60	36.5
20	22.0	9.5	60	39.9
22	24.5	9.5	60	43.1
24	27.8	9.5	65	46.6
28	31.2	9.5	65	53.4
32	37.8	11.0	65	60.1
36	45.2	11.8	80	66.3
40	51.2	11.8	80	72.4

All dimensions for reference only.

GT06AF/06F

straight plug

GT06AF

- With a cable clamp
- Wire sealing grommet not supplied
- Non-environment proof

GT06F

- With a wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof



Inches

Shell Size	L Max.	Q Max.	Z Nominal	KK Max.	LL Max.
10SL	2.165	.898	.220	.894	4.724
14S	2.362	1.150	.312	1.083	4.724
16S	2.756	1.260	.437	1.181	4.724
16	2.756	1.260	.437	1.181	4.921
18	2.953	1.437	.562	1.299	4.921
20	2.953	1.571	.625	1.476	4.921
22	2.953	1.697	.625	1.476	4.921
24	3.543	1.835	.750	1.705	4.921
28	3.543	2.102	.750	1.705	4.921
32	3.543	2.366	.937	2.035	4.921
36	3.937	2.610	1.250	2.283	5.315
40	4.921	2.850	1.375	2.579	5.709

Millimeters

Shell Size	L Max.	Q Max.	Z Nominal	KK Max.	LL Max.
10SL	55	22.8	5.58	22.7	120
14S	60	29.2	7.92	27.5	120
16S	70	32.0	11.09	30.0	120
16	70	32.0	11.09	30.0	125
18	75	36.5	14.27	33.0	125
20	75	39.9	15.87	37.5	125
22	75	43.1	15.87	37.5	125
24	90	46.6	19.05	43.3	125
28	90	53.4	19.05	43.3	125
32	90	60.1	23.79	51.7	125
36	100	66.3	31.75	58.0	135
40	125	72.4	34.92	65.5	145

All dimensions for reference only.

GT06CF

straight plug

- With a cable clamp and seal
- For use with jacketed cable
- Environment proof



Inches

Shell Size	J Approx.	L Approx.	Q Max.	Z	
				Open	Closed
10SL	.551	2.752	.898	.312	.094
14S	.732	2.898	1.150	.438	.230
16S	.732	2.898	1.260	.531	.315
16	.653	3.216	1.260	.531	.315
18	.705	3.307	1.437	.625	.378
20	.705	3.311	1.571	.748	.445
22	.744	3.350	1.697	.748	.445
24	.689	3.484	1.835	.937	.610
28	.921	3.736	2.102	.937	.610
32	1.016	4.142	2.366	1.250	.921
36	1.031	4.390	2.610	1.378	.921
40	1.614	4.640	2.854	1.624	1.177

Millimeters

Shell Size	J Approx.	L Approx.	Q Max.	Z	
				Open	Closed
10SL	14.0	69.6	22.8	7.93	2.38
14S	18.6	73.6	29.2	11.12	5.84
16S	18.6	73.6	32.0	13.48	8.00
16	16.6	81.7	32.0	13.48	8.00
18	17.9	84.0	36.5	15.87	9.60
20	17.9	84.1	39.9	19.00	11.30
22	18.9	85.1	43.1	19.00	11.30
24	17.5	88.5	46.6	23.80	15.50
28	23.4	94.9	53.4	23.80	15.50
32	25.8	105.2	60.1	31.75	23.40
36	26.2	111.5	66.3	35.00	23.40
40	41.0	111.5	72.5	41.25	29.90

All dimensions for reference only.

GT06CFGG

straight plug

- With rubber covered coupling nut for extreme shock applications
 - The shrouded coupling nut protects the plug from damage
 - Provides a superior gripping surface
 - Seals the bayonet ramps
- Includes a backshell
 - Mates with GT020RFSM (see page 47)
 - Environment proof



Inches

Shell Size	J Approx.	L Approx.	Q Max.	S Dia.	Z	
					Open	Closed
10SL	.551	3.150	1.319	1.122	.312	.094
18	.701	3.346	1.929	1.713	.625	.378
20	.705	3.937	2.028	1.811	.748	.445
22	.705	3.937	2.224	1.988	.748	.445
24	.689	4.016	2.362	2.126	.937	.610
28	.921	4.291	2.638	2.402	.937	.610
32	1.016	5.315	2.992	2.661	1.250	.921
36	1.031	5.039	3.240	2.925	1.378	.921
40	1.614	5.315	3.465	3.150	1.624	1.177

Millimeters

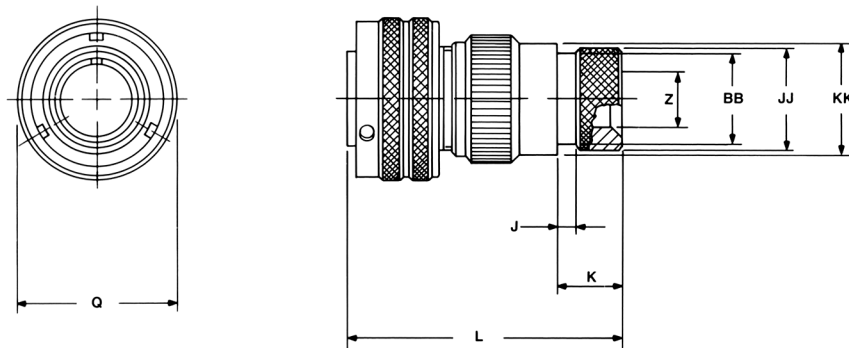
Shell Size	J Approx.	L Approx.	Q Max.	S Dia.	Z	
					Open	Closed
10SL	14.0	80	33.5	28.5	7.93	2.38
18	17.8	85	49.0	43.5	15.87	9.60
20	17.9	100	51.5	46.0	19.00	11.30
22	17.9	100	56.5	50.5	19.00	11.30
24	17.5	102	60.0	54.0	23.80	15.50
28	23.4	109	67.0	61.0	23.80	15.50
32	25.6	135	76.0	67.6	31.75	23.40
36	26.2	128	82.3	74.3	35.00	23.40
40	41.0	135	88.0	80.0	41.25	29.90

All dimensions for reference only.

GT06G

straight plug

- With a wire sealing grommet
- For use with individual wires
- Includes a backshell for use with heat-shrink tubing
- Environment proof



Inches

Shell Size	J ± .008	K ± .020	L Max.	Q Max.	Z Min.	BB Max.	JJ ± .008	KK ± .008
10SL	.138	.461	1.969	.898	.303	.524	.610	.669
14S	.138	.461	1.969	1.150	.417	.669	.752	.791
16S	.138	.461	1.969	1.260	.531	.862	.941	.925
16	.138	.453	2.362	1.260	.531	.862	.941	.925
18	.138	.453	2.362	1.437	.575	.862	.941	1.043
20	.138	.500	2.559	1.571	.736	1.031	1.165	1.189
22	.138	.500	2.559	1.697	.819	1.031	1.165	1.323
24	.138	.500	2.559	1.835	.969	1.358	1.488	1.421
28	.138	.500	2.559	2.102	1.063	1.358	1.488	1.630
32	.138	.598	2.756	2.366	1.311	1.717	1.882	1.913
36	.138	.598	3.150	2.610	1.516	1.717	1.882	2.157
40	.138	.610	3.150	2.854	1.898	2.071	2.276	2.402

Millimeters

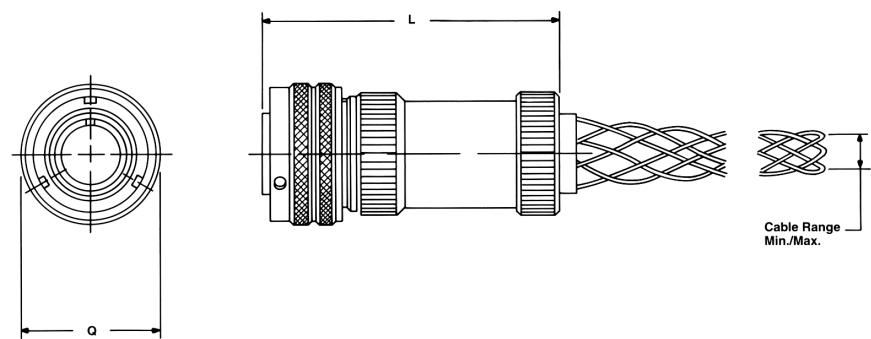
Shell Size	J ± 0.2	K ± 0.5	L Max.	Q Max.	Z Min.	BB Max.	JJ ± 0.2	KK ± 0.2
10SL	3.5	11.7	50	22.8	7.7	13.3	15.5	17.0
14S	3.5	11.7	50	29.2	10.6	17.0	19.1	20.1
16S	3.5	11.7	50	32.0	13.5	21.9	23.9	23.5
16	3.5	11.5	60	32.0	13.5	21.9	23.9	23.5
18	3.5	11.5	60	36.5	14.6	21.9	23.9	26.5
20	3.5	12.7	65	39.9	18.7	26.2	29.6	30.2
22	3.5	12.7	65	43.1	20.8	26.2	29.6	33.6
24	3.5	12.7	65	46.6	24.6	34.5	37.8	36.1
28	3.5	12.7	65	53.4	27.0	34.5	37.8	41.4
32	3.5	15.2	70	60.1	33.3	43.6	47.8	48.6
36	3.5	15.2	80	66.3	38.5	43.6	47.8	54.8
40	3.5	15.2	80	72.5	48.2	52.6	57.8	61.0

All dimensions for reference only.

GT06LC

straight plug

- Includes a backshell with a basket weave strain relief cord grip
- With a wire sealing grommet
- Environment proof



Inches

Shell Size	L Ref.	Q Max.
10SL	3.000	.898
14S	3.000	1.150
16S	3.000	1.260
16	3.250	1.260
18	3.250	1.437
20	3.250	1.571
22	3.250	1.697
24	3.250	1.835
28	3.600	2.102
32	3.600	2.366
36	3.600	2.610
40	3.600	2.854

Cable Range		
AXX Part No. Suffix*	Min.	Max.
A16	.250	.375
A54	.375	.500
A10	.500	.625
A12	.625	.750
A42	.750	.875
A11	.875	1.000
A55	1.000	1.125
A14	1.125	1.250
A56	1.250	1.375
A74	1.375	1.500
A57	1.500	1.625
A58	1.625	1.750

Millimeters

Shell Size	L Ref.	Q Max.
10SL	76.2	22.8
14S	76.2	29.2
16S	76.2	32.0
16	82.5	32.0
18	82.5	36.4
20	82.5	39.9
22	82.5	43.1
24	82.5	46.6
28	91.4	53.3
32	91.4	60.0
36	91.4	66.2
40	91.4	72.4

Cable Range		
AXX Part No. Suffix*	Min.	Max.
A16	6.3	9.5
A54	9.5	12.7
A10	12.7	15.8
A12	15.8	19.0
A42	19.0	22.2
A11	22.2	25.4
A55	25.4	28.5
A14	28.5	31.7
A56	31.7	34.9
A74	34.9	38.1
A57	38.1	41.2
A58	41.2	44.4

All dimensions for reference only.

* For example, typical part number would be:
GTC06LC28-8PA59

GT06LCF/06LCFZ

straight plug

GT06LCF

- With cable clamp and seal
- Long backshell provides more working room for jacketed cable
- Environment proof

GT06LCFZ

- Same as GT06LCF except: Individual wire sealing grommet for added moisture
- Environment proof



Inches

Shell Size	J Approx.	L Approx.	Q Max.	Z	
				Open	Closed
10SL	1.654	3.811	.898	.312	.094
14S	1.677	3.843	1.150	.438	.230
16S	1.677	3.843	1.260	.531	.315
16	1.677	4.217	1.260	.531	.315
18	1.803	4.409	1.437	.625	.378
20	1.807	4.409	1.571	.748	.445
22	1.807	4.413	1.697	.748	.445
24	1.752	4.535	1.835	.937	.610
28	1.949	4.756	2.102	.937	.610
32	1.953	5.079	2.366	1.250	.921
36	1.969	5.327	2.610	1.378	.921
40	1.969	5.327	2.854	1.624	1.177

Millimeters

Shell Size	J Approx.	L Approx.	Q Max.	Z	
				Open	Closed
10SL	42.0	96.8	22.8	7.93	2.38
14S	42.6	97.6	29.2	11.12	5.84
16S	42.6	97.6	32.0	13.48	8.00
16	42.6	107.1	32.0	13.48	8.00
18	45.8	112.0	36.5	15.87	9.60
20	45.9	112.0	39.9	19.00	11.30
22	45.9	112.1	43.1	19.00	11.30
24	44.5	115.2	46.6	23.80	15.50
28	49.5	120.8	53.4	23.80	15.50
32	49.6	129.0	60.1	31.75	23.40
36	50.0	135.3	66.3	35.00	23.40
40	50.0	135.3	72.5	41.25	29.90

All dimensions for reference only.

GT06PP/064PP

panel plug

GT06PP

- Square flange mounting with four through holes
- Environment proof with proper panel sealing gasket (see page 73)

GT064PP

- Square flange mounting with four through holes
- Environment proof with proper panel sealing gasket (see page 73)
- Includes a heavy duty coupling nut



Inches

Shell Size	L Approx.	Q Max.	Q ¹ Max.	P ± .008	R ± .004	S ± .012	T + .004 - .000
10SL	1.087	.898	.953	.110	.717	1.000	.126
14S	1.091	1.150	1.208	.126	.906	1.181	.126
16S	1.091	1.260	1.319	.126	.969	1.280	.126
16	1.469	1.260	1.319	.126	.969	1.280	.126
18	1.500	1.437	1.510	.157	1.063	1.378	.126
20	1.500	1.571	1.660	.157	1.157	1.496	.126
22	1.500	1.697	1.770	.157	1.252	1.614	.126
24	1.598	1.835	1.910	.157	1.374	1.752	.146
28	1.626	2.102	2.085	.157	1.563	2.000	.146
32	1.764	2.366	2.440	.157	1.752	2.244	.169
36	1.764	2.610	2.660	.157	1.937	2.500	.169
40	1.764	2.850	2.910	.157	2.185	2.752	.169

Millimeters

Shell Size	L Approx.	Q Max.	Q ¹ Max.	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0
10SL	27.6	22.8	24.2	2.8	18.2	25.4	3.2
14S	27.7	29.2	30.6	3.2	23.0	30.0	3.2
16S	27.7	32.0	33.5	3.2	24.6	32.5	3.2
16	37.3	32.0	33.5	3.2	24.6	32.5	3.2
18	38.1	36.5	38.3	4.0	27.0	35.0	3.2
20	38.1	39.9	42.1	4.0	29.4	38.0	3.2
22	38.1	43.1	44.9	4.0	31.8	41.0	3.2
24	40.6	46.6	48.5	4.0	34.9	44.5	3.7
28	41.3	53.4	52.9	4.0	39.7	50.8	3.7
32	44.8	60.1	61.9	4.0	44.5	57.0	4.3
36	44.8	66.3	67.5	4.0	49.2	63.5	4.3
40	44.8	72.4	73.9	4.0	55.5	69.9	4.3

All dimensions for reference only.

GT06R

straight plug

- With a wire sealing grommet
- Includes a backshell for conduit termination
- Environment proof



Inches

Shell Size	B Thread Class 2A	F Min.	K Min.	L Max.	Q Max.
10SL	.6250-24UNEF	.409	.374	1.969	.898
14S	.7500-20UNEF	.520	.374	1.969	1.150
16S	.8750-20UNEF	.638	.374	1.969	1.260
16	.8750-20UNEF	.638	.374	2.362	1.260
18	1.0000-20UNEF	.756	.374	2.362	1.437
20	1.1875-18UNEF	.867	.374	2.362	1.571
22	1.1875-18UNEF	.965	.374	2.362	1.697
24	1.4375-18UNEF	1.094	.374	2.560	1.835
28	1.4375-18UNEF	1.228	.374	2.560	2.102
32	1.7500-18UNS	1.488	.433	2.560	2.366
36	2.0000-18UNS	1.780	.465	3.150	2.610
40	2.2500-16UN	2.016	.465	3.150	2.850

Millimeters

Shell Size	F Min.	K Min.	L Max.	Q Max.
10SL	10.4	9.5	50	22.8
14S	13.2	9.5	50	29.2
16S	16.2	9.5	50	32.0
16	16.2	9.5	60	32.0
18	19.2	9.5	60	36.5
20	22.0	9.5	60	39.9
22	24.5	9.5	60	43.1
24	27.8	9.5	65	46.6
28	31.2	9.5	65	53.4
32	37.8	11.0	65	60.1
36	45.2	11.8	80	66.3
40	51.2	11.8	80	72.4

All dimensions for reference only.

GT06RV

straight plug

- With a wire sealing grommet
- For use with individual wires
- Environment proof



Inches

Shell Size	L Max.	Q Max.	KK Max.
10SL	1.417	.898	.787
14S	1.437	1.150	.945
16S	1.437	1.260	1.024
16	1.929	1.260	1.024
18	1.929	1.437	1.161
20	1.969	1.571	1.299
22	1.969	1.697	1.417
24	2.008	1.835	1.543
28	2.008	2.102	1.811
32	2.087	2.366	2.028
36	2.106	2.610	2.283
40	2.126	2.850	2.539

Millimeters

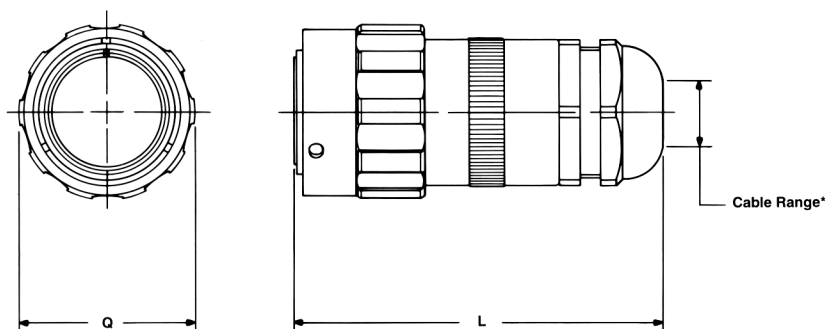
Shell Size	L Max.	Q Max.	KK Max.
10SL	36.0	22.8	20.0
14S	36.5	29.2	24.0
16S	36.5	32.0	26.0
16	49.0	32.0	26.0
18	49.0	36.5	29.5
20	50.0	39.9	33.0
22	50.0	43.1	36.0
24	51.0	46.6	40.0
28	51.0	53.4	46.0
32	53.0	60.1	51.5
36	53.5	66.3	58.0
40	54.0	72.4	64.5

All dimensions for reference only.

GT065SL(*)

straight plug

- Includes a long heavy duty coupling nut
- Includes a liquid tight strain relief to grip and seal jacketed cable
- Environment proof



Inches

Shell Size	L Ref.	Q Max.	Cable Range	
			(1)*	(2)*
10SL	3.516	1.007	.11-.26	.07-.12
14S	3.628	1.259	.15-.32	.07-.24
16S	3.808	1.410	.19-.39	.11-.28
16	4.355	1.410	.19-.39	.11-.28
18	4.249	1.547	.23-.47	.19-.35
20	4.255	1.681	.39-.56	.27-.47
22	4.329	1.847	.51-.71	.35-.63
24	4.816	1.965	.51-.71	.35-.63
28	4.817	2.222	.70-.98	.51-.79
32	4.817	2.482	.86-1.26	.78-1.02
36	5.048	2.721	1.26-1.50	.98-1.22
40	4.978	2.953	1.45-1.75	1.14-1.38

Millimeters

Shell Size	L Ref.	Q Max.	Cable Range	
			(1)*	(2)*
10SL	89.3	25.5	2.7-6.6	1.7-3.0
14S	92.1	31.9	3.8-8.1	1.7-6.0
16S	96.7	35.8	4.8-9.9	2.7-7.1
16	110.6	35.8	4.8-9.9	2.7-7.1
18	107.9	39.2	5.8-11.9	4.8-8.8
20	108.0	42.6	9.9-14.2	6.8-11.9
22	109.9	46.9	12.9-18.0	8.8-16.0
24	122.3	49.9	12.9-18.0	8.8-16.0
28	122.3	56.4	17.7-24.8	12.9-20.0
32	122.3	63.0	21.8-32.0	19.8-25.9
36	128.2	69.1	32.0-38.1	24.8-30.9
40	126.4	75.0	36.8-44.4	28.9-35.05

All dimensions for reference only.

* Add suffix 1 or 2 for desired cable range.

GT07R

jam nut receptacle

- For rear panel single hole mounting
- Panel seal O-ring included
- Environment proof



Inches

Shell Size	B Thread Class 2A	G ± .012	J Wall Thickness		M ± .012	N + .000 - .006	P ± .007	R ± .016	S ± .012
			Min.	Max.					
10SL	.8750-20 UNEF	.441	.094	.205	.965	.717	.157	1.062	1.252
14S	1.1250-18 UNEF	.575	.094	.295	1.055	.969	.189	1.312	1.626
16S	1.2500-18 UNEF	.618	.094	.295	1.055	1.079	.189	1.500	1.748
16	1.2500-18 UNEF	.618	.094	.295	1.264	1.079	.189	1.500	1.748
18	1.3750-18 UNEF	.661	.094	.354	1.327	1.213	.189	1.562	1.874
20	1.5000-18 UNEF	.709	.094	.358	1.327	1.346	.189	1.750	2.000
22	1.6250-18 UNEF	.795	.094	.358	1.327	1.472	.189	2.000	2.252
24	1.7500-18 UNEF	.795	.094	.358	1.327	1.610	.189	2.000	2.252
28	2.0000-18 UNS	.886	.094	.394	1.386	1.839	.220	2.188	2.500
32	2.2500-16 UN	.972	.094	.394	1.386	2.102	.220	2.438	2.748
36	2.5000-16 UN	1.059	.094	.327	1.386	2.346	.220	2.812	3.000
40	2.7500-16 UN	1.165	.094	.327	1.386	2.579	.220	3.000	3.248

Millimeters

Shell Size	G ± 0.3	J Wall Thickness		M ± 0.3	N + 0.00 - 0.15	P ± 0.2	R ± 0.4	S ± 0.3
		Min.	Max.					
10SL	11.2	2.4	5.2	24.5	18.2	4.0	27	31.8
14S	14.6	2.4	7.5	26.8	24.6	4.8	33	41.3
16S	15.7	2.4	7.5	26.8	27.4	4.8	38	44.4
16	15.7	2.4	7.5	32.1	27.4	4.8	38	44.4
18	16.8	2.4	9.0	33.7	30.8	4.8	40	47.6
20	18.0	2.4	9.1	33.7	34.2	4.8	44	50.8
22	20.2	2.4	9.1	33.7	37.4	4.8	51	57.2
24	20.2	2.4	9.1	33.7	40.9	4.8	51	57.2
28	22.5	2.4	10.0	35.2	46.7	5.6	56	63.5
32	24.7	2.4	10.0	35.2	53.4	5.6	62	69.8
36	26.9	2.4	8.3	35.2	59.6	5.6	71	76.2
40	29.6	2.4	8.3	35.2	65.5	5.6	76	82.5

All dimensions for reference only.

GT070

jam nut receptacle

- For rear panel single hole mounting
- Threaded rear for accessories
- Environment proof



Inches

Shell Size	B Thread Class 2A	G ± .012	J Wall Thickness		L ± .010	M ± .012	N + .000 - .006	P ± .007	R ± .016	S ± .012	BB Thread Class 2A
			Min.	Max.							
10SL	.8750-20 UNEF	.441	.094	.205	1.425	.965	.717	.157	1.062	1.252	.6250-24 UNEF
14S	1.1250-18 UNEF	.575	.094	.295	1.531	1.055	.969	.189	1.312	1.626	.7500-20 UNEF
16S	1.2500-18 UNEF	.618	.094	.295	1.531	1.055	1.079	.189	1.500	1.748	.8750-20 UNEF
16	1.2500-18 UNEF	.618	.094	.295	1.909	1.264	1.079	.189	1.500	1.748	.8750-20 UNEF
18	1.3750-18 UNEF	.661	.094	.354	1.941	1.327	1.213	.189	1.562	1.874	1.0000-20 UNEF
20	1.5000-18 UNEF	.709	.094	.358	1.941	1.327	1.346	.189	1.750	2.000	1.1250-18 UNEF
22	1.6250-18 UNEF	.795	.094	.358	1.941	1.327	1.472	.189	2.000	2.252	1.2500-18 UNEF
24	1.7500-18 UNEF	.795	.094	.358	1.953	1.327	1.610	.189	2.000	2.252	1.3750-18 UNEF
28	2.0000-18 UNS	.886	.094	.394	2.043	1.386	1.839	.220	2.188	2.500	1.6250-18 UNEF
32	2.2500-16 UN	.972	.094	.394	2.043	1.386	2.102	.220	2.438	2.748	1.8750-16 UN
36	2.5000-16 UN	1.059	.094	.327	2.043	1.386	2.346	.220	2.812	3.000	2.0625-16 UN
40	2.7500-16 UN	1.165	.094	.327	2.043	1.386	2.579	.220	3.000	3.248	2.3125-16 UN

Millimeters

Shell Size	G ± 0.3	J Wall Thickness		I ± 0.3	M ± 0.3	N + 0.00 - 0.15	P ± 0.2	R ± 0.4	S ± 0.3
		Min.	Max.						
10SL	11.2	2.4	5.2	36.2	24.5	18.2	4.0	27	31.8
14S	14.6	2.4	7.5	38.9	26.8	24.6	4.8	33	41.3
16S	15.7	2.4	7.5	38.9	26.8	27.4	4.8	38	44.4
16	15.7	2.4	7.5	48.5	32.1	27.4	4.8	38	44.4
18	16.8	2.4	9.0	49.3	33.7	30.8	4.8	40	47.6
20	18.0	2.4	9.1	49.3	33.7	34.2	4.8	44	50.8
22	20.2	2.4	9.1	49.3	33.7	37.4	4.8	51	57.2
24	20.2	2.4	9.1	49.6	33.7	40.9	4.8	51	57.2
28	22.5	2.4	10.0	51.9	35.2	46.7	5.6	56	63.5
32	24.7	2.4	10.0	51.9	35.2	53.4	5.6	62	69.8
36	26.9	2.4	8.3	51.9	35.2	59.6	5.6	71	76.2
40	29.6	2.4	8.3	51.9	35.2	65.5	5.6	76	82.5

All dimensions for reference only.

GT08A

90° angle plug

- Without a wire sealing grommet or clamp
- Non-environment proof
- If a cable clamp is required, see pages 76 and 78



Inches

Shell Size	B Thread Class 2A	F Max.	J Min.	K Max.	L Max.	Q Max.
10SL	.6250-24UNEF	.337	.370	1.181	1.772	.898
14S	.7500-20UNEF	.462	.370	1.181	1.850	1.150
16S	.8750-20UNEF	.587	.370	1.181	1.890	1.299
16	.8750-20UNEF	.587	.370	1.181	2.244	1.299
18	1.0000-20UNEF	.685	.370	1.378	2.283	1.437
20	1.1875-18UNEF	.810	.370	1.378	2.402	1.571
22	1.1875-18UNEF	.915	.370	1.378	2.402	1.697
24	1.4375-18UNEF	1.025	.370	1.575	2.598	1.835
28	1.4375-18UNEF	1.139	.370	1.575	2.598	2.102
32	1.7500-18UNS	1.447	.433	1.772	2.835	2.366
36	2.0000-18UNS	1.687	.496	1.969	2.953	2.610
40	2.2500-16UN	1.923	.496	2.165	3.071	2.850

Millimeters

Shell Size	F Max.	J Min.	K Max.	L Max.	Q Max.
10SL	8.5	9.4	30	45	22.8
14S	11.7	9.4	30	47	29.2
16S	14.9	9.4	30	48	33.0
16	14.9	9.4	30	57	33.0
18	17.4	9.4	35	58	36.5
20	20.5	9.4	35	61	39.9
22	23.2	9.4	35	61	43.1
24	26.0	9.4	40	66	46.6
28	28.9	9.4	40	66	53.4
32	36.7	11.0	45	72	60.1
36	42.8	12.6	50	75	66.3
40	48.8	12.6	55	78	72.4

All dimensions for reference only.

GT08AF/08F

90° angle plug

GT08AF

- With a cable clamp
- Wire sealing grommet not included
- Non-environment proof

GT08F

- With a wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof



Inches

Shell Size	K Max.	L Max.	Q Max.	Z Max.	KK Max.	LL Max.
10SL	1.654	1.772	.898	.220	.894	3.937
14S	1.654	1.850	1.150	.312	1.083	3.937
16S	1.772	1.890	1.299	.437	1.181	3.937
16	1.772	2.244	1.299	.437	1.181	3.937
18	2.087	2.283	1.437	.562	1.299	3.937
20	2.087	2.402	1.571	.625	1.476	3.937
22	2.087	2.402	1.697	.625	1.476	3.937
24	2.283	2.598	1.835	.750	1.705	3.937
28	2.283	2.598	2.102	.750	1.705	3.937
32	2.598	2.835	2.366	.937	2.061	4.331
36	2.717	2.953	2.610	1.250	2.283	4.331
40	3.740	3.071	2.850	1.375	2.579	5.512

Millimeters

Shell Size	K Max.	L Max.	Q Max.	Z Max.	KK Max.	LL Max.
10SL	42	45	22.8	5.58	22.7	100
14S	42	47	29.2	7.92	27.5	100
16S	45	48	33.0	11.09	30.0	100
16	45	57	33.0	11.09	30.0	100
18	53	58	36.5	14.27	33.0	100
20	53	61	39.9	15.87	37.5	100
22	53	61	43.1	15.87	37.5	100
24	58	66	46.6	19.05	43.3	100
28	58	66	53.4	19.05	43.3	100
32	66	72	60.1	23.79	51.7	110
36	69	75	66.3	31.75	58.0	110
40	95	78	72.4	34.92	65.5	140

All dimensions for reference only.

GT08CFGG

90° angle plug

- Rubber covered coupling nut provides superior gripping surface and seals beyond ramps
- Includes clamp to grip and seal jacketed cable
- Mates with GT020RFSM (see page 47)
- Environment proof



Inches

Shell Size	K Max.	L Max.	Q Dia.	S Dia.	Z		KK ± .008
					Open	Closed	
10SL	2.402	1.929	1.319	1.122	.312	.094	.890
18	2.677	2.520	1.929	1.713	.625	.378	1.220
20	2.677	2.638	2.028	1.811	.748	.445	1.469
22	2.677	2.638	2.205	1.988	.748	.445	1.469
24	2.992	2.874	2.362	2.126	.937	.610	1.654
28	2.992	2.874	2.638	2.402	.937	.610	1.654
32	3.425	3.071	2.992	2.661	1.250	.921	2.126
36	3.858	3.189	3.240	2.925	1.378	.921	2.248
40	4.055	3.307	3.465	3.150	1.624	1.177	2.500

Millimeters

Shell Size	K Max.	L Max.	Q Dia.	S Dia.	Z		KK ± 0.2
					Open	Closed	
10SL	61	49	33.5	28.5	7.93	2.38	22.6
18	68	64	49.0	43.5	15.87	9.60	31.0
20	68	67	51.5	46.0	19.00	11.30	37.3
22	68	67	56.0	50.5	19.00	11.30	37.3
24	76	73	60.0	54.0	23.80	15.50	42.0
28	76	73	67.0	61.0	23.80	15.50	42.0
32	87	78	76.0	67.6	31.75	23.40	54.0
36	98	81	82.3	74.3	35.00	23.40	57.1
40	103	84	88.0	80.0	41.25	29.90	63.5

All dimensions for reference only.

GT08R

90° angle plug

- With a wire sealing grommet for conduit termination
- For use with individual wires
- Environment proof



Inches

Shell Size	B Thread Class 2A	F Max.	J Min.	K Max.	L Max.	Q Max.
10SL	.6250-24UNEF	.337	.370	1.181	1.772	.898
14S	.7500-20UNEF	.462	.370	1.181	1.850	1.150
16S	.8750-20UNEF	.587	.370	1.181	1.890	1.299
16	.8750-20UNEF	.587	.370	1.181	2.244	1.299
18	1.0000-20UNEF	.685	.370	1.378	2.283	1.437
20	1.1875-18UNEF	.810	.370	1.378	2.402	1.571
22	1.1875-18UNEF	.915	.370	1.378	2.402	1.697
24	1.4375-18UNEF	1.025	.370	1.575	2.598	1.835
28	1.4375-18UNEF	1.139	.370	1.575	2.598	2.102
32	1.7500-18UNS	1.447	.433	1.772	2.835	2.366
36	2.0000-18UNS	1.687	.496	1.969	2.953	2.610
40	2.2500-16UN	1.923	.496	2.165	3.071	2.850

Millimeters

Shell Size	F Max.	J Min.	K Max.	L Max.	Q Max.
10SL	8.5	9.4	30	45	22.8
14S	11.7	9.4	30	47	29.2
16S	14.9	9.4	30	48	33.0
16	14.9	9.4	30	57	33.0
18	17.4	9.4	35	58	36.5
20	20.5	9.4	35	61	39.9
22	23.2	9.4	35	61	43.1
24	26.0	9.4	40	66	46.6
28	28.9	9.4	40	66	53.4
32	36.7	11.0	45	72	60.1
36	42.8	12.6	50	75	66.3
40	48.8	12.6	55	78	72.4

All dimensions for reference only.

GT05

dummy receptacle

- Square flange
- Four through mounting holes
- Stows cable plugs when not in use



Inches

Shell Size	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000
10SL	.559	.717	.110	.717	1.000	.126
14S	.559	.969	.126	.906	1.181	.126
16S	.559	1.079	.126	.969	1.280	.126
16	.748	1.079	.126	.969	1.280	.126
18	.748	1.213	.157	1.063	1.378	.126
20	.748	1.346	.157	1.157	1.496	.126
22	.748	1.472	.157	1.252	1.614	.126
24	.811	1.610	.157	1.374	1.752	.146
28	.811	1.839	.157	1.563	2.000	.146
32	.874	2.102	.157	1.752	2.244	.169
36	.874	2.346	.157	1.937	2.500	.169
40	.874	2.579	.157	2.185	2.752	.169

Millimeters

Shell Size	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + 0.1 - 0.0
10SL	14.2	18.2	2.8	18.2	25.4	3.2
14S	14.2	24.6	3.2	23.0	30.0	3.2
16S	14.2	27.4	3.2	24.6	32.5	3.2
16	19.0	27.4	3.2	24.6	32.5	3.2
18	19.0	30.8	4.0	27.0	35.0	3.2
20	19.0	34.2	4.0	29.4	38.0	3.2
22	19.0	37.4	4.0	31.8	41.0	3.2
24	20.6	40.9	4.0	34.9	44.5	3.7
28	20.6	46.7	4.0	39.7	50.8	3.7
32	22.2	53.4	4.0	44.5	57.0	4.3
36	22.2	59.6	4.0	49.2	63.5	4.3
40	22.2	65.5	4.0	55.5	69.9	4.3

All dimensions for reference only.

GTTB

thru-bulkhead receptacles

- Accepts mating plug on both sides
- Four through mounting holes



Inches

Shell Size	L Max.	M + .016 - .000	N + .000 - .006	P ± .008	R ± .004	S ± .012	T + .004 - .000
10SL	1.488	.717	.717	.110	.717	1.000	.126
14S	1.488	.717	.969	.126	.906	1.181	.126
16S	1.488	.717	1.079	.126	.969	1.280	.126
16	2.049	.846	1.079	.126	.969	1.280	.126
18	2.049	.907	1.213	.157	1.063	1.378	.126
20	2.049	.907	1.346	.157	1.157	1.496	.126
22	2.049	.907	1.472	.157	1.252	1.614	.126
24	2.049	.907	1.610	.157	1.374	1.752	.146
28	2.049	.947	1.839	.157	1.563	2.000	.146
32	2.049	.947	2.102	.157	1.752	2.244	.169
36	2.049	.947	2.346	.157	1.937	2.500	.169
40	2.049	.947	2.579	.157	2.185	2.752	.169

Millimeters

Shell Size	L Max.	M + 0.4 - 0.0	N + 0.00 - 0.15	P ± 0.2	R ± 0.1	S ± 0.3	T + .004 - .000
10SL	37.7	18.2	18.2	2.8	18.2	25.4	3.2
14S	37.7	18.2	24.6	3.2	23.0	30.0	3.2
16S	37.7	18.2	27.4	3.2	24.6	32.5	3.2
16	52.0	21.5	27.4	3.2	24.6	32.5	3.2
18	52.0	23.0	30.8	4.0	27.0	35.0	3.2
20	52.0	23.0	34.2	4.0	29.4	38.0	3.2
22	52.0	23.0	37.4	4.0	31.8	41.0	3.2
24	52.0	23.0	40.9	4.0	34.9	44.5	3.7
28	52.0	24.0	46.7	4.0	39.7	50.8	3.7
32	52.0	24.0	53.4	4.0	44.5	57.0	4.3
36	52.0	24.0	59.6	4.0	49.2	63.5	4.3
40	52.0	24.0	65.5	4.0	55.5	69.9	4.3

All dimensions for reference only.

GT Connectors – accessories

10-40450, 10-36675, 10-580649 sealing gaskets



The Amphenol® plain flat gasket of synthetic rubber material is provided to take complete advantage of waterproof and pressure sealing features. It is for use with the flange mounted receptacle.



This flat gasket is provided to give the maximum in connector performance. Its special feature is in providing the maximum radio shielding under difficult conditions of high receiver sensitivity and low signal strength while retaining the sealing characteristics of the plain gasket. This gasket is for use with the flange mounting receptacle.



This gasket is provided for applications where the major requirement is resistance to the injurious effects of extremely low temperature. Even at temperatures as low as -67°F this gasket retains its resiliency and will seal a pressure differential of 30 psi.

The rear panel gasket is equivalent to the plain flat gasket made of synthetic rubber material, and is used for back panel mounting.

Inches

Installation Dimensions					
MS Shell Size	A $\pm .010$	Front Panel Versions B + .016 - .000	Rear Panel Version B + .016 - .000	C + .016 - .000	D $\pm .010$
10SL	.719	.625	.724	1.000	.172
14S	.906	.875	.976	1.188	.172
16S	.969	1.000	1.087	1.281	.172
16	.969	1.000	1.087	1.281	.172
18	1.063	1.125	1.220	1.375	.203
20	1.156	1.250	1.354	1.500	.203
22	1.250	1.375	1.480	1.625	.203
24	1.375	1.500	1.618	1.750	.203
28	1.563	1.750	1.846	2.000	.203
32	1.750	2.000	2.110	2.250	.219
36	1.938	2.188	2.354	2.500	.219
40	2.188	2.438	2.587	2.750	.219

Order Data			
Front Panel Plain Version	Front Panel Shielding Version	Front Panel Low Temperature Version	Rear Panel Version
10-40450-10	10-40450-10S	10-36675-10	10-580649-10
10-40450-14	10-40450-14S	10-36675-14	10-580649-14
10-40450-16	10-40450-16S	10-36675-16	10-580649-16
10-40450-16	10-40450-16S	10-36675-16	10-580649-16
10-40450-18	10-40450-18S	10-36675-18	10-580649-18
10-40450-20	10-40450-20S	10-36675-20	10-580649-20
10-40450-22	10-40450-22S	10-36675-22	10-580649-22
10-40450-24	10-40450-24S	10-36675-24	10-580649-24
10-40450-28	10-40450-28S	10-36675-28	10-580649-26
10-40450-32	10-40450-32S	10-36675-32	10-580649-32
10-40450-36	10-40450-36S	10-36675-36	10-580649-36
10-40450-40	10-40450-40S	10-36675-40	10-580649-40

Millimeters

Installation Dimensions					
MS Shell Size	A ± 0.2	Front Panel Versions B + 0.4 - 0.0	Rear Panel Version B + 0.4 - 0.0	C + 0.4 - 0.0	D ± 0.2
10SL	18.2	15.9	18.4	25.4	4.36
14S	23.0	22.2	24.8	30.2	4.36
16S	24.6	25.4	27.6	32.5	4.36
16	24.6	25.4	27.6	32.5	4.36
18	27.0	28.57	31.0	35.0	5.15
20	29.4	31.75	34.4	38.1	5.15
22	31.8	34.9	37.6	41.2	5.15
24	34.9	38.1	41.1	44.5	5.15
28	39.7	44.45	46.9	50.8	5.15
32	44.5	50.8	53.6	57.2	5.56
36	49.2	55.57	59.8	63.5	5.56
40	55.6	61.92	65.7	69.9	5.56

GT Connectors – accessories

receptacle protection caps

- Protective metal caps which seal the front of receptacles
- Includes a chain for retention of the cap at the required location
- For receptacles: GT00, 01, 02, 020, 030, 070

* 10-580902-XXX



* To complete order number, add shell size and suffix number. For example, shell size 11 with olive drab cadmium plate would be 10-580902-113.

Inches

Shell Size	D + .020 - .000	L Max.	N Max.	LL Approx.
11	.173	.650	.905	5.000
14	.173	.650	1.181	5.000
16	.173	.827	1.280	5.000
17	.173	.650	1.280	5.000
18	.173	.827	1.457	5.000
20	.173	.827	1.594	5.000
22	.173	.827	1.713	5.000
24	.173	.827	1.850	5.000
28	.220	.827	2.126	7.480
32	.220	.827	2.382	7.480
36	.220	.827	2.638	6.890
40	.220	.827	2.874	7.480

Finish	Suffix
Black anodize	-XX2
Olive drab cadmium plate	-XX3
Olive drab cadmium nickel base	-XX9

Millimeters

Shell Size	D + 0.5 - 0.0	L Max.	N Max.	LL Approx.
11	4.4	16.5	23.0	127
14	4.4	16.5	30.0	127
16	4.4	21.0	32.5	127
17	4.4	16.5	32.5	127
18	4.4	21.0	37.0	127
20	4.4	21.0	40.5	127
22	4.4	21.0	43.5	127
24	4.4	21.0	47.0	127
28	5.6	21.0	54.0	190
32	5.6	21.0	60.5	190
36	5.6	21.0	67.0	175
40	5.6	21.0	73.0	190

All dimensions for reference only.

GT Connectors – accessories

plug protection caps

- Protective metal caps which seal the front of plugs
- Includes a chain for retention of the cap at the required location
- For receptacles: GT06, 08

* 10-580903-XXX



* To complete order number, add shell size and suffix number. For example, shell size 11 with olive drab cadmium plate would be 10-580903-113.

Inches

Shell Size	D + .020 - .000	L Max.	N Max.	LL Approx.
11	.157	.945	.807	5.000
14	.157	.945	1.059	5.000
16	.157	.945	1.169	5.000
17	.157	.945	1.169	5.000
18	.157	.945	1.303	5.000
20	.189	1.260	1.437	5.520
22	.189	1.260	1.563	5.520
24	.189	1.260	1.701	5.520
28	.189	1.260	1.929	7.480
32	.220	1.260	2.193	7.480
36	.220	1.260	2.437	7.480
40	.220	1.260	2.665	7.480

Finish	Suffix
Black anodize	-XX2
Olive drab cadmium plate	-XX3
Olive drab cadmium nickel base	-XX9

Millimeters

Shell Size	D + 0.5 - 0.0	L Max.	N Max.	LL Approx.
11	4.0	24	20.5	127
14	4.0	24	26.9	127
16	4.0	24	29.7	127
17	4.0	24	29.7	127
18	4.0	24	33.1	127
20	4.8	32	36.5	140
22	4.8	32	39.7	140
24	4.8	32	43.2	140
28	4.8	32	49.0	190
32	5.6	32	55.7	190
36	5.6	32	61.9	190
40	5.6	32	67.7	190

All dimensions for reference only.

GT Connectors – accessories

M85049/41 (MS3057-A) cable clamp

- Concentric cable clamps, insure strain relief and central location of the cable
- Can be used with bushing MS3420



Inches

Part Number	Used with Shell Size	Used with Bushing	B	D	G	F	V Thread Class 2B
M85049/41-4A	10SL	MS3420-4	.315	.395	.812	.866	.6250-24 UNEF
M85049/41-6A	14S	MS3420-6	.442	.395	.875	1.063	.7500-20 UNEF
M85049/41-8A	16 - 16S	MS3420-8	.568	.395	.945	1.145	.8750-20 UNEF
M85049/41-10A	18	MS3420-10	.633	.395	.945	1.244	1.0000-20 UNEF
M85049/41-12A	20 - 22	MS3420-12	.758	.395	.945	1.475	1.1875-18 UNEF
M85049/41-16A	24 - 28	MS3420-16	.948	.395	1.031	1.700	1.4375-18 UNEF
M85049/41-20A	32	MS3420-20	1.256	.460	1.094	2.055	1.7500-18 UNS
M85049/41-24A	36	MS3420-24	1.380	.520	1.157	2.265	2.0000-18 UNS
M85049/41-28A	40	MS3420-28	1.625	.520	1.685	2.683	2.2500-16 UN

Millimeters

Part Number	Used with Shell Size	Used with Bushing	B	D	G	F
M85049/41-4A	10SL	MS3420-4	8.0	10.0	20.6	22
M85049/41-6A	14S	MS3420-6	11.0	10.0	22.2	27
M85049/41-8A	16 - 16S	MS3420-8	14.4	10.0	24.0	29
M85049/41-10A	18	MS3420-10	16.1	10.0	24.0	32
M85049/41-12A	20 - 22	MS3420-12	19.2	10.0	24.0	37
M85049/41-16A	24 - 28	MS3420-16	24.1	10.0	26.2	43
M85049/41-20A	32	MS3420-20	31.9	11.7	27.8	52
M85049/41-24A	36	MS3420-24	35.0	13.2	29.4	58
M85049/41-28A	40	MS3420-28	41.3	13.2	42.8	68

All dimensions for reference only.

GT Connectors – accessories

MS3420 bushing

- Bushing of synthetic rubber to be used with cable clamps for protection of the cable or wires
- Can be telescoped for smaller cable diameters



Inches

Part Number	Used with Cable Clamp	A	B	C	D
MS3420-3	M85049/41-3A	.130	.210	.379	2.875
MS3420-4	M85049/41-4A	.220	.302	.505	2.750
MS3420-6	M85049/41-6A	.312	.427	.619	2.625
MS3420-8	M85049/41-8A	.437	.552	.744	2.500
MS3420-10	M85049/41-10A	.562	.615	.889	2.375
MS3420-12	M85049/41-12A	.625	.740	1.084	2.250
MS3420-16	M85049/41-16A	.750	.927	1.314	2.125
MS3420-20	M85049/41-20A	.937	1.240	1.598	2.000
MS3420-24	M85049/41-24A	1.250	1.365	1.847	1.875
MS3420-28	M85049/41-28A	1.375	1.614	2.085	1.750

Millimeters

Part Number	Used with Cable Clamp	A	B	C	D
MS3420-3	M85049/41-3A	3.30	5.3	9.60	73.0
MS3420-4	M85049/41-4A	5.58	7.7	12.80	69.8
MS3420-6	M85049/41-6A	7.92	10.8	15.70	66.8
MS3420-8	M85049/41-8A	11.09	14.0	18.90	63.5
MS3420-10	M85049/41-10A	14.27	15.6	22.58	60.3
MS3420-12	M85049/41-12A	15.87	18.8	27.50	57.1
MS3420-16	M85049/41-16A	19.05	23.5	33.40	53.9
MS3420-20	M85049/41-20A	23.79	31.5	40.60	50.8
MS3420-24	M85049/41-24A	31.75	34.7	46.90	47.6
MS3420-28	M85049/41-28A	34.92	41.0	52.90	44.4

All dimensions for reference only.

GT Connectors – accessories

M85049/2 (MS3057-C) cable clamp

- Waterproof clamp for jacketed cables
- Provides mechanical strain relief plus concentric clamping over a wide range of cable sizes
- A neoprene* gland seal ensures a waterproof seal on the cable jacket

* Other materials available



Part Number	Used with Shell Size	A Thread Class 2B in inches	V Thread Class 2A in inches	Used with Bushing	Bushing Opening Inches		Bushing Opening Millimeters	
					Open	Closed	Open	Closed
M85049/2-4C	10SL	.6250-24 UNEF	6-32 UNC	MS3420-4A	.219	.010	5.56	0.25
M85049/2-6C	14S	.7500-20 UNEF	6-32 UNC	MS3420-6A MS3420-4A	.312 .219	.114 .020	7.93 5.56	2.89 0.50
M85049/2-8C	16 & 16S	.8750-20 UNEF	6-32 UNC	MS3420-8A MS3420-6A	.437 .312	.220 .085	11.10 7.93	5.60 2.15
M85049/2-10C	18	1.0000-20 UNEF	6-32 UNC	MS3420-10A MS3420-6A	.437 .312	.197 .085	11.10 7.93	5.00 2.15
M85049/2-12C	20 & 22	1.1875-18 UNEF	8-32 UNC	MS3420-12A MS3420-8A	.541 .437	.270 .177	13.74 11.10	6.85 4.50
M85049/2-16C	24 & 28	1.4375-18 UNEF	8-32 UNC	MS3420-16A MS3420-12A MS3420-8A	.748 .541 .437	.429 .260 .186	19.00 13.74 11.10	10.90 6.60 4.72
M85049/2-20C	32	1.7500-18 UNS	.250-20 UNC	MS3420-20A MS3420-16A MS3420-12A	.937 .748 .541	.620 .441 .273	23.80 19.00 13.74	15.74 11.20 6.93
M85049/2-24C	36	2.0000-18 UNS	.250-20 UNC	MS3420-24A MS3420-20A MS3420-16A	1.122 .937 .748	.681 .504 .358	28.50 23.80 19.00	17.30 12.80 9.10
M85049/2-28C	40	2.2500-16 UN	.250-20 UNC	MS3420-28A MS3420-20A MS3420-16A	1.250 .937 .748	.815 .512 .368	31.75 23.80 19.00	20.70 13.00 9.34
M85049/2-32C	44	2.5000-16 UN	.250-20 UNC	MS3420-32A MS3420-28A	1.874 1.250	1.378 .815	47.60 31.75	35.00 20.70

Inches							Millimeters				
Part Number	Used with Shell Size	B		E ± .016	F ± .008	G + .020 − .000	B		E ± 0.4	F ± 0.2	G + 0.5 − 0.0
		Open	Closed				Open	Closed			
M85049/2-4C	10SL	.312	.094	.748	.890	1.272	7.93	2.38	19.0	22.6	32.3
M85049/2-6C	14S	.438	.230	.874	1.016	1.272	11.12	5.84	22.2	25.8	32.3
M85049/2-8C	16 & 16S	.531	.315	1.000	1.106	1.272	13.48	8.00	25.4	28.1	32.3
M85049/2-10C	18	.625	.378	1.122	1.220	1.390	15.87	9.60	28.5	31.0	35.3
M85049/2-12C	20 & 22	.748	.445	1.311	1.469	1.406	19.00	11.30	33.3	37.3	35.7
M85049/2-16C	24 &28	.937	.610	1.559	1.654	1.516	23.80	15.50	39.6	42.0	38.5
M85049/2-20C	32	1.250	.921	1.874	2.126	1.764	31.75	23.40	47.6	54.0	44.8
M85049/2-24C	36	1.378	.921	2.122	2.248	2.031	35.00	23.40	53.9	57.1	51.6
M85049/2-28C	40	1.624	1.177	2.374	2.500	2.031	41.25	29.90	60.3	63.5	51.6
M85049/2-32C	44	1.866	1.421	2.622	2.811	2.189	47.40	36.10	66.6	71.4	55.6

All dimensions for reference only.

GT – accessories

rear mounting data – receptacles, 10-405996
sealing plugs, sealing ranges, backshell torque forces

REAR MOUNTING DATA
MAXIMUM PANEL THICKNESS



Size	Dimension D			
	GT00/020		GT030	
	Inches	(mm)	Inches	(mm)
10SL	.146	3.70	.303	7.70
14S	.146	3.70	.303	7.70
16S	.146	3.70	.303	7.70
16	.145	3.70	.242	6.15
18	.145	3.70	.303	7.70
20	.145	3.70	.303	7.70
22	.145	3.70	.303	7.70
24	.207	5.25	.303	7.70
28	.207	5.25	.343	8.70
32	.241	6.10	.309	7.85
36	.241	6.10	.309	7.85
40	.237	6.02	.309	7.85

GROMMET HOLE
SEALING RANGES

Hole Size	Sealing Range	
	(mm)	Inches
16	2.3 – 3.0	.090 – .118
12	3.2 – 4.5	.126 – .177
8	3.8 – 6.5	.150 – .256
4	7.1 – 9.3	.279 – .366
0	10.0 – 13.7	.394 – .539

RECOMMENDED TORQUE FORCES
CONNECTOR BACKSHELLS

Size	In./Lb. Max.
10SL	26
14S	44
16	50
16S	50
18	55
20	65
22	85
24	90
28	114
32	120
36	153
40	170

SEALING PLUG 10-405996-XX

Sealing plugs are used to fill unused holes in multi-holed grommet configurations.



All dimensions for reference only.

Order No.	Contact Size	Wire Size	Color Code	Inches		
				A Dia. $\pm .010$	B $\pm .005$	C $\pm .010$
10-405996-16	16	20-16	Blue	.083	.133	.564**
10-405996-12	12	14-12	Yellow	.121	.171	.564**
10-405996-8	8	10-8	White	.185	.315	.470
10-405996-4	4	4-6	Blue	.310	.415	.470
10-405996-0	0	0-2	Yellow	.440	.605	1.000

Millimeters		
A Dia. ± 0.2	B ± 0.1	C ± 0.2
2.1	3.4	14.3***
3.1	4.3	14.3***
4.7	8.0	11.9
7.9	10.5	11.9
11.2	15.4	25.4

** $\pm .020$ (in.) *** ± 0.5 (mm)

GT Connectors

solder contacts

Machined copper alloy contacts in a full range of sizes, with closed entry socket design in the size 12 and 16 contacts. A heavy silver-plated finish is deposited on all MS style solder contacts for maximum corrosion resistance, maximum current carrying capacity and low millivolt drop. Gold plated contacts are also available. (See how to order, pg. 83).

SOLDER CONTACTS*

Part Number	Pin/Socket	Mating End Size	Wire Barrel Size	Allowable Wire Size	Test Current** Amps		
10-40569	Pin	16 Short	16	16	13		
10-597107-16() or 10-40568	Socket			18	10		
				20	7.5		
				22	5		
10-40599	Pin	16 Long	16	16	13		
10-597107-17() or 10-40598	Socket			18	10		
				20	7.5		
				22	5		
10-33646	Pin	12	12	12	23		
10-597107-13() or 10-33644	Socket			14	17		
10-35531	Pin	8	8	8	46		
10-35532	Socket			10	33		
10-35529	Pin	4	4	4	80		
10-35530	Socket			6	60		
10-35527	Pin	0	0	0	150		
10-35528	Socket			1	125		
				2	100		

* Solder Wells Filled

** Contact ratings as stated are test ratings only. The connector may not withstand full rated current through all contacts continuously. Please note that the electrical data given is not an establishment of electrical safety factors. This is left entirely in the designer's hands as he can best determine which peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

Table I
CONTACT ARRANGEMENT
SERVICE RATING

MS Service Rating	Recommended Operating Voltage* at Sea Level		Effective Creepage Distance Nom.	Mechanical Spacing Nom.
	DC	AC (RMS)		
Inst.	250	200	1/16	
A	700	500	1/8	1/16
D	1250	900	3/16	1/8
E	1750	1250	1/4	3/16
B	2450	1750	5/16	1/4
C	4200	3000	1	5/16

* The values listed in Table I represent operating values which include a generous safety factor. It may be necessary for some applications to exceed the operating voltages listed here. If this is necessary, designers will find Table II useful for determining the degree to which the recommended values of Table I can be exceeded.

Table II
ALTITUDE VOLTAGE
DERATING CHART**

MS Service Rating	Nominal Distance		Standard Sea Level Conditions		Pressure Altitude† 50,000 Feet		Pressure Altitude † 70,000 Feet	
	Airspace	Creepage	Minimum Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Minimum Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Minimum Flashover Voltage AC (RMS)	Test Voltage AC (RMS)
Inst.	1/32	1/16	1400	1000	550	400	325	260
A	1/16	1/8	2800	2000	800	600	450	360
D	1/8	3/16	3600	2800	900	675	500	400
E	3/16	1/4	4500	3500	1000	750	550	440
B	1/4	5/16	5700	4500	1100	825	600	480
C	5/16	1	8500	7000	1300	975	700	560

† Not corrected for changes in density due to variations in temperature

** No attempt has been made to recommend operating voltages. The designer must determine his own operating voltage by the application of a safety factor to the above derating chart to compensate for circuit transients, surges, etc.

GT Connectors

crimp contacts

Machined from copper alloys and silver-plated for maximum corrosion resistance, with a minimum millivolt drop and a maximum current carrying capacity, the size 16 and 12 socket contacts are of the closed entry design. Crimp contacts are available for all MS insert arrangements and are identified with an Amphenol® proprietary number. Gold plated contacts are also available. (See how to order, pg. 83).

CRIMP CONTACTS*

Part Number	Pin/Socket	Mating End Size	Wire Barrel Size	Allowable Wire Size	Required Wire Adapter Sleeve	Test Current** Amps
10-40553	Pin	16 Short	16	16	—	13
10-597109-161 or 10-40552	Socket			18	—	10
				20	—	7.5
				22*	10-74696-6	5
10-40557	Pin	16 Long	16	16	—	13
10-597109-171 or 10-40556	Socket			18	—	10
				20	—	7.5
				22*	10-74696-6	5
10-40561	Pin	12	12	12	—	23
10-597109-131 or 10-40560	Socket			14	—	17
10-40792	Pin	8	8	8	—	46
10-40793	Socket			10*	10-74696-1	33
10-40564	Pin	4	4	4	—	80
10-40565	Socket			6*	10-74696-2	60
10-581806	Pin	0	0	0	—	150
10-581808	Socket			2*	10-74696-7	125

* When using wire adapter sleeve shown

** Contact ratings as stated are test ratings only. The connector may not withstand full rated current through all contacts continuously. Please note that the electrical data given is not an establishment of electrical safety factors. This is left entirely in the designer's hands as he can best determine which peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

Additional contact variations are available; consult Amphenol, Sidney, NY for information.

Table I
CONTACT ARRANGEMENT
SERVICE RATING

MS Service Rating	Recommended Operating Voltage* at Sea Level		Effective Creepage Distance Nom.	Mechanical Spacing Nom.
	DC	AC (RMS)		
Inst.	250	200	1/16	
A	700	500	1/8	1/16
D	1250	900	3/16	1/8
E	1750	1250	1/4	3/16
B	2450	1750	5/16	1/4
C	4200	3000	1	5/16

* The values listed in Table I represent operating values which include a generous safety factor. It may be necessary for some applications to exceed the operating voltages listed here. If this is necessary, designers will find Table II useful for determining the degree to which the recommended values of Table I can be exceeded.

Table II
ALTITUDE VOLTAGE
DERATING CHART**

MS Service Rating	Nominal Distance		Standard Sea Level Conditions		Pressure Altitude† 50,000 Feet		Pressure Altitude † 70,000 Feet	
	Airspace	Creepage	Minimum Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Minimum Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Minimum Flashover Voltage AC (RMS)	Test Voltage AC (RMS)
Inst.	1/32	1/16	1400	1000	550	400	325	260
A	1/16	1/8	2800	2000	800	600	450	360
D	1/8	3/16	3600	2800	900	675	500	400
E	3/16	1/4	4500	3500	1000	750	550	440
B	1/4	5/16	5700	4500	1100	825	600	480
C	5/16	1	8500	7000	1300	975	700	560

† Not corrected for changes in density due to variations in temperature

** No attempt has been made to recommend operating voltages. The designer must determine his own operating voltage by the application of a safety factor to the above derating chart to compensate for circuit transients, surges, etc.

MS Standard application tools

When proprietary crimp contacts are employed rather than the standard MS approved solder contacts, the following application tools are recommended for use. There is a possibility of additional crimping tools other than those included being available at present or in the future for this specific application.

Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary crimp contacts in GT Series connectors are available in publication L-1295.

TOOLING CHART

Crimping Tool	Positioner/ Turret	Contact Size	Contact Style	Insertion Tool	Removal Tool
M22520/1-01	*	16	Pin & Socket	11-7345	11-8250 Kit
M22520/1-01	*	12	Pin & Socket	11-7082	11-8250 Kit
**	**	8	Pin & Socket	11-8220	11-8250 Kit
**	**	4	Pin & Socket	11-7365-4 †	Pin 11-7370-4 † Socket 11-7674-2 †
**	**	0	Pin & Socket	11-7365-5 †	Pin 11-7370-5 † Socket 11-7674-3 †

* Use Daniels Turret TH29-1 or Astro Tool Co. Turret 616266

** For appropriate crimp tool and positioner refer to Pico Crimping Tool Co.

† Tools used with Arbor Press 11-7364

Amphenol® GT Connectors

how to order, connector intermateability

Part Number System

GT C 00 A 36-5 P W (002)
 1 2 3 4 5 6 7

1. Contact Style and Insert Material

C = Crimp
 S = Solder
 CY = Crimp with Viton
 SY = Solder with Viton
 CL = Crimp with low smoke/flammable retardant inserts
 SL = Solder with low smoke/flammable retardant inserts
 No designation required for Neoprene components

2. Shell Style

00 - Wall mount receptacle
 01 - Inline receptacle
 02 - Box mount receptacle
 020 - Box mount receptacle with accessory threads
 030 - Square flange receptacle - rear panel mount
 05 - Dummy receptacle
 06 - Straight plug
 062 - Straight plug with deep serrated coupling nut*
 064 - Panel mounted plug with heavy duty coupling nut
 065 - Straight plug with long heavy duty coupling nut
 07 - Jam nut receptacle - rear panel mount
 070 - Jam nut receptacle with accessory threads
 08 - 90° angle plug
 TB - Thru-bulkhead

3. Connector Class

See pages 32–72

4. Shell Size and Arrangement

See pages 2–4
 For thermocouple arrangements, see pages 27–31

5. Contact Style

P designates pin contacts
 S designates socket contacts

6. Alternate Position

W, X, Y and Z - See page 5.
 No suffix required for normal position.

7. Connector Modification*

Omit for standard olive drab with silver plated contacts

i.e.: (G96) Black anodize
 (014) Olive drab cadmium plate, nickel base
 (A24) gold/nickel plated contacts
 (025) Black zinc cobalt
 (027) Conductive black zinc cobalt
 (024) Green zinc cobalt

MATEABILITY WITH IDENTICAL CONTACT ARRANGEMENTS

Connector Style	Mateable with Style
GT00	GT06 / 062 / 064 / 065 / 08
GT01	GT06 / 062 / 064 / 065 / 08
GT02	GT06 / 062 / 064 / 065 / 08
GT020	GT06 / 062 / 064 / 065 / 08
GT030	GT06 / 062 / 064 / 065 / 08
GT06 / 062 / 064 / 065	GT00 / 01 / 02 / 020 / 03 / 030 / 05 / 070 / TB
GT07 / 070	GT06 / 062 / 064 / 065 / 08
GT08	GT00 / 01 / 02 / 020 / 03 / 030 / 05 / 070 / TB
GTTB	GT06 / 062 / 064 / 065 / 08

* Consult Amphenol, Sidney, NY

Special Application GT Connectors

GT-PC Connectors for High Voltage Power Applications

The Amphenol® GT-PC connectors were developed for use in the High Voltage Power Distribution industry. Incorporating all the standard features of the popular GT series, these connectors will prevent accidental electrical shocks to the technicians. "Dead Front" pin contacts in size 0 are recessed into a socket insert, preventing inadvertent contact with a live circuit. The GT-PC series has been UL approved.

"First Mate - Last Break" features on one or more of the pins provide an additional measure of operator safety.

Termination to the conductors is accomplished with an Allen wrench or the traditional crimp or solder method. If Allen wrench is used, torque allen screws 40-50 in. lbs.

Other features of the GT-PC connector include:

- Quick positive coupling; audible, tactile and visual mating indicators
- Full range of shell styles available
- Waterproof
- No lockwiring required
- Wide selection of backshells and adapters available
- Numerous conductive and non-conductive plating options
- Heavy duty, rubber over-molded coupling nut increases gripping surface and prevents damage to the connector in severe environments
- Up to 100 amps per contact, continuous current carrying capability
- Available in insert patterns:
22-7, 36-4, 36-5, 40-5, 40-57
Consult Amphenol Aerospace for availability of other patterns.

For further information on Amphenol® GT-PC connectors, request Product Data Sheet #173 from your local Amphenol sales office or Amphenol, Sidney, NY.



*Amphenol® GT-PC Connectors with Features
that Provide Increased Operator Safety*

GT Connectors for the HMI Lighting Industry

Amphenol provides the GT connector for the HMI lighting industry. These connectors are designed for the rugged use experienced during stage shows and other entertainment events, even outside in the elements. The same GT feature of a three point bayonet coupling system which gives visual and tactile indication of full mating, and the same ruggedness to survive 2000 mating cycles are provided.

Unique features of this connector series include color-coded receptacle shells with matching backshells on the cable plugs. The colors can be matched to specific wattage cables and/or light systems. A wide selection of environment adapters designed to seal on the outside diameter of specific cable diameters can be fitted to the backshells.

Applications for these connectors include power and control of lighting trusses, and portable power and dimmer racks.

For more information on Amphenol® GT connectors for the HMI lighting industry request Product Data Sheet #174 from your local sales office or Amphenol, Sidney, NY