Amphenol®

GTC Matrix Connectors for Heavy Equipment Applications

Amphenol, which has been manufacturing connectors for more than 75 years, offers an extensive array of connector lines including rectangular, circular, fiber optic, EMI/EMP filter and a variety of special application connectors.

The GTC Matrix series combines the features from the reverse bayonet series, the Matrix MIL-C-5015 series and the M85049 series into one ultimate connector. The GTC-M series achieves environmental sealing without the necessity of additional sealing accessories by incorporating rear release metal clip contacts, a three-webbed grommet, and a “cork and bottle” insert design. This series is intermateable with the standard GT series.

Features:

- 2000 Mating Cycles
- ¼ Turn Reverse Bayonet Mating
- Shares Matrix MIL-C-5015 Inserts
- Multiple Insert Material Variations
- Standard M85049 Rear Accessories
- Rear Release Metal Clip Crimp Contacts
- Shock and Vibration Resistant
- Improved Environment Sealing

How to Order

GT	C	XX	M	XX	18 - 1	P/S	W	XXX
1	2	3	4	5	6 7	8	9	10

1 Amphenol GT Connector Series, reversed bayonet style
2 Crimp contact termination
(series is only available with crimp termination)
3 Shell Style
00 wall mount receptacle
01 line mount receptacle
02 box mount receptacle
030 square mount receptacle
06 standard plug
08 standard plug with right angle elbow
07 jam nut receptacle
4 Amphenol/Matrix insert design (rear release metal clip retention)
5 Service Class - consult Amphenol, Sidney, NY for availability
6 Shell size - 10SL thru 40
7 Insert pattern - see catalog 12-026, Amphenol/Matrix MS/Standard MIL-C-5105 Cylindrical Connectors, for insert availability and pattern illustrations
8 Pin or Socket contact gender
9 Insert rotation - W, X, Y, or Z -
see catalog 12-026 for alternate insert positioning
10 Modification codes - see catalog 12-024, Amphenol GT Series, Reversed Bayonet Connectors, for modifications such as alternate finishes and alternate contact plating. Or call Amphenol, Sidney, NY for information.

CONTACT CURRENT RATING AND RETENTION

Contact Size**	Current Rating		Contact Retention	
	Amperes Max.	Voltage Crop Millivolts	Axial Load	
			lb.	N
16	13	50	25	111.2
12	23	50	30	133.4
8	46	25	50	222.4
4	80	14	60	266.9
0	150	12	75	388.6

** Organize Individual circuits to maintain heat rise within operating temperature requirements

SEALING PLUGS

Contact Size	Amphenol/Matrix Part Number
16S	10-405996-016
16	10-405996-016
12	10-405996-012
8	10-405996-008
4	10-405996-004
0	10-405996-000

INSERTION/REMOVAL TOOLS

Contact Size	Color Code	Amphenol/Matrix Part Number
16	Blue/White	10-538988-016
12	Yell./White	10-538988-012
8	White/Red	6500-018-0008
4	White/Blue	6500-018-0004
0	White/Yell.	6500-018-0000

CRIMPING TOOLS

Contact Size	Wire Range		Finished Wire Dia. Range		Color Code	Crimping Tool Part Number	Turret or Positioner Part Number
	AWG	mm²	Inch	mm			
16S	20-16	0.5-1.4	.053-.103	1.34-2.62	Red/White	M22520/1-01	M22520/1-02
16	20-16	0.5-1.4	.053-.103	1.34-2.62	Blue White	M22520/1-01	M22520/1-02
12	14-12	2-3	.085-.158	2.15-4.01	Yell./White	M22520/1-01	M22520/1-02
8	10-8	5-8.5	.132-.255	3.35-6.48	White/Red	M22520/23-01	M22520/23-02
4	6-4	13-21	.237-.370	6.01-9.40	White/Blue	M22520/23-01	M22520/23-02
0	2-0	34-60	.360-.550	9.14-13.97	White/Yell.	M22520/23-01	M22520/23-02

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

For further information on your individual application requirements, contact: Amphenol Corporation

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