

# MIL-T-81714 Series II Composite Termination System

INCLUDING DEUTSCH SOCKET CONTACTS

# Mil-Spec Connectors & Accessories



DEUTSCH TERMINATION		
CTD CTJ1	CTL CTM	
CTJ2	CTN	
CTJ7	CTJ4	
C	ſĠ	

# IDIEUTISCHI IECID

## Defense / Aerospace Operations ...

is the world's premier manufacturer of electrical interconnection devices for use in defense, aerospace, and commercial applications. Whether you need an interconnection device for a commercial or military aircraft, missile, tank, truck transmission or a host of other applications, Deutsch has the solution you're looking for.

> Deutsch ECD Defense Aerospace Operations 5733 W. Whittier Ave., Hemet CA (USA) 92545 Phone 909/765-2200 • FAX 909/922-1544

## **Composite Termination System** Common Termination System

The Common Termination System consists of a system of wires and components that are interconnected to one another by the use of a standard MIL-C-39029/22 socket contact only. This eliminates the need for pin contacts which are located in the mating components. There are approximately twenty different devices that comprise the Common Termination System. These devices consist of modules, junctions, connectors, and rail assemblies, including:

## Feedback Modules:

Act like a terminal strip. Each module accommodates a single contact size which is bussed internally to a copper bar.

## **Distribution Modules:**

Used when two or more contact sizes are needed per module. The buss bars are also forged from a single copper piece.

## **Grounding Modules:**

Developed to provide multiple grounds made at a common point. This is a feedback module grounded to structure.

## **Component Modules:**

Provide a method of terminating wires to printed circuit boards, tape, and flat cable.

## **Electronic Modules:**

Designed to contain a variety of circuit arrangements for rectifying, filtering, and arc suppression.

## **Plug and Receptacle Modules:**

Designed for applications involving the simultaneous connection and disconnection of groups of wires. The receptacle module can also contain \_\_\_\_\_\_ pins extended from the rear grommet to accept flat cable.

# Common Termination Cylindrical & Rectangular Connectors:

Designed with the socket contacts contained in the receptacle which are fixed with pin contacts in the termination end (rear grommet). Inserts are designed to MIL-C-38999, and termination is accomplished by utilization of the socket contacts designed to MIL-C-39029/22.

## **Grounding Junctions:**

Provide a simple method of terminating a wire (22, 20,16, and 12 AWG) to ground. Wires with crimp contacts are inserted into the grounding junction and can be attached to any conductive surface.

## **In-Line Junctions:**

Used to join two wires. Similar to an in-line splice, but removable.

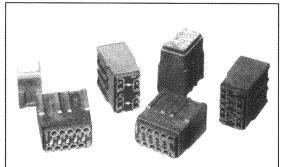
## **Multi Junctions:**

Designed to join four wires. Similar to two in-line junctions bussed together.

## Module Rails:

Designed to accommodate various modules which can be individually snapped in and out.

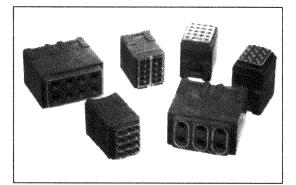
This standardization of terminations for all system components simplifies training, saves assembly time, cuts production cost, speeds up procurement, reduces weight, and enhances performance.





## CTD Series, CTJ1 Series

Power Distribution and Feedback Modules for applications that require bussing a variety of wire and contact sizes.



The Deutsch composite system uses a rugged socket contact terminated to internal pin-buss bars.

The Deutsch CTD series module accents a large input current and distributes it through a pin-buss system to smaller feeder terminal strips and can be prewired to simplify final assembly.

The Deutsch CTJ1 series modules accommodates common bussing of 6 to 20 contacts in a small area. Internal bussbars are configured to allow connections of various combinations of wires providing environmental resistance and vibration dampening.

## **Dielectric Withstanding Voltage**

(MIL-T-81714, paragraph 3.5.6) At sea level: 1500 Volts AC (RMS) At 110,000 ft.: 200 Volts AC (RMS)

## **Insulation Resistance**

(MIL-T-81714, paragraph 3.5.11) 5000 megohms min. at 25°C.

## **Thermal Shock**

(MIL-T-81714, paragraph 3.5.5) After cycling the modules between -55°C and +200°C, they will meet all applicable electrical and mechanical requirements.

## **Current Rating**

(Meets MIL-C-39029, paragraph 3.5.4)

Contact Size	Max. Amps
22	5
20	7.5
16	13
12	23

## Temperature

(MIL-T-81714) Operative at temperatures from -65°C to +200°C.

## Corrosion

(MIL-T-81714, paragraph 3.5.12)

#### Vibration

(MIL-T-81714, paragraph 3.5.8) Maintains continuity and exhibits no mechanical or physical damage during or after vibration levels stated in listed specification.

## **SPECIFICATIONS**

**Usable Wire Size** (MIL-C-39029, paragraph 3.4.2)

Contact Size	Accepts (AWG)
22	22-26
20	20-24
16	16-20
12	12 & 14

#### **Grommet Sealing Range** (MIL-T-81714, Table I)

Contact Size	Max. Wire O.D.	Min. Wire O.D
22	.060	.030
20	.083	.040
16	.109	.065
12	.142	.097

## **Fluid Compatibility**

Designed to function in many fluids encountered in most modern military or aerospace environments. Available with options to operate in the following fluid environments in accordance with MIL-T-81714.

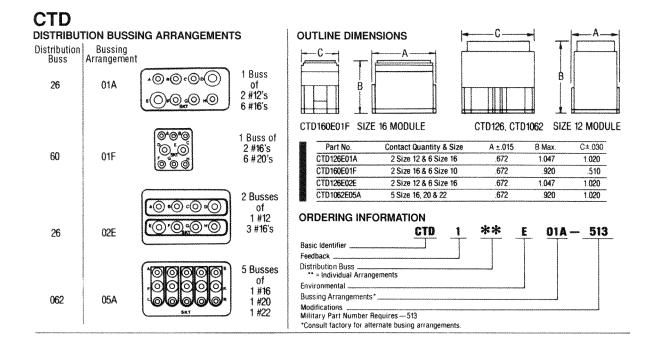
Classification	Fluid*
MIL-H-5606	Aircraft Hydraulic Fluid
MIL-T-5624	JP-5 Jet Fuel
MIL-L-7808	Lubricating Oil
MIL-L-23699	Lubricating Oil
MIL-A-8243	Defrosting Fluid
MIL-C-25769	Alkaline Cleaning Compound
MIL-G-3056	Gasoline

Also: Isopropyl Alcohol, Mineral Spirits, 1-1-1 Trichloroethane, Freon TMC.

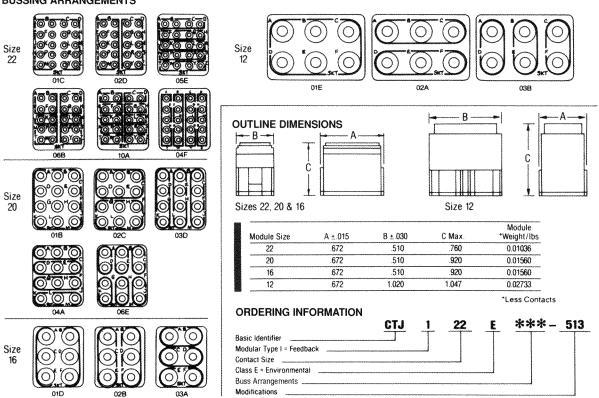




## COMPOSITE TERMINATION SYSTEM

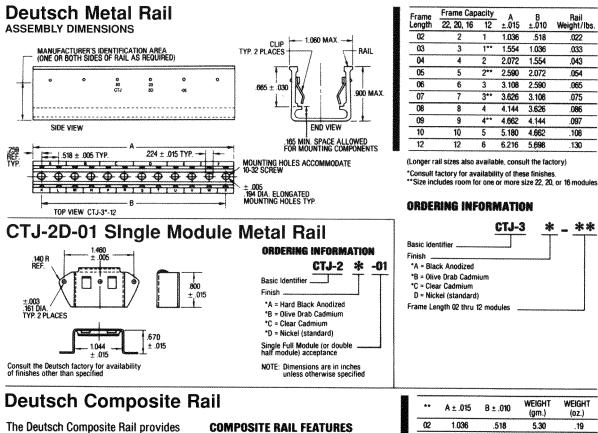


## CTJ (Feedback Module) BUSSING ARRANGEMENTS



Military Part Number Requires - 513



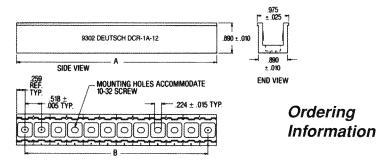


a lightweight, corrosion-proof mounting system for electronic, feedback and distribution modules. It is designed to allow hand insertion of each individual module. A positive lock retains the module in the rail. Modules can be individually unlocked and removed by using a simple tool.

The Deutsch Composite Rail uses advanced materials and processes with field-proven technology to reduce weight while exceeding performance parameters.

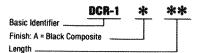
## COMPOSITE RAIL FEATURES & BENEFITS

- 48% lighter than comparable aluminum rails.
- Intermounts with MIL-T-81714 Series II rails.
- Extreme operating temperatures (-65°C +175°C).
- $\hfill\square$  Corrosion-proof.
- Common removal tooling.
- □ Accepts MIL-T-81714 Series II modules.



			*****	*******
**	A ± .015	B ± .010	WEIGHT (gm.)	WEIGHT (oz.)
02	1.036	.518	5.30	.19
03	1.554	1.036	7.95	.28
04	2.072	1.554	10.60	.37
05	2.590	2.072	13.25	.47
06	3.108	2.590	15.90	.56
07	3.626	3.108	18.55	.65
08	4.144	3.626	21.20	.75
09	4.662	4.144	23.85	.84
10	5.180	4.662	26.50	.93
11	5.698	5.180	29.15	1.03
12	6.216	5.698	31.80	1.12
13	6.734	6.216	34.45	1.21
14	7.252	6.734	37.10	1.31
15	7.770	7.252	39.75	1.40
16	8.288	7.770	42.40	1.50
17	8.806	8.288	45.05	1.59
18	9.324	8.806	47.70	1.68
19	9.842	9.324	50.35	1.78
20	10.360	9.842	53.00	1.87

NOTE: Dimensions are in inches unless otherwise specified.



NOTE: Consult factory for rail lengths not shown.



## CTJ7 Series, CTG Series

Grounding modules for grounding applications that need a small, rugged device that also offers sealing and assembly ease.

The Deutsch Common Termination **Junction Series Grounding Module** provides an excellent method of grounding multiple wires to a common location. It accepts M39029/22 crimptype sockets that mate with internal pins on a rugged buss bar contained in a sealed plastic housing. The onepiece construction is small, lightweight, dissipates heat, is shock and vibration resistant, and has an extremely low voltage drop.

For grounding single wires, the **Deutsch Common Termination** Grounding Series adapter, a threaded stud mounting junction, accepts a single M39029/22 socket contact. It, too, has an environmental seal. It can also be used to adapt any electromechanical component using screw type terminations. (The threaded stud can replace the screw terminals.)

## **Dielectric Withstanding Voltage**

(Meets AFLC 8027520, paragraph 3.10) At sea level: 1500 Volts AC (RMS) At 100,000 ft.: 200 Volts AC (RMS)

## **Insulation Resistance**

(Meets AFLC 8027520, paragraph 3.9) 500 megohms min. at 25°C.

## **Thermal Shock**

(Meets AFLC 8027520, paragraph 3.7) After cycling the header between -55°C and +200°C, it will meet all applicable electrical and mechanical requirements.

Current Rating (Meets MIL-C-39029, paragraph 3.5.4)

Contact Size	Max. Amps	
22	5	
20	7.5	
16	13	
12	23	

#### Temperature

(Meets AFLC 8027520, paragraph 1.2.1) Operative at temperatures from -65°C to +200°C.



## **Physical Shock**

(Meets AFLC 8027520, paragraph 3.20) No loosening of parts, cracking, or other deleterious results hindering further part operation after 78 G's in each of 3 mutually perpendicular planes.

#### Corrosion

(Meets AFLC 8027520, paragraph 3.11) No decrease in performance or exposure of base metal after 48 hours of salt spray.

## **Humidity**

(Meets requirements of AFLC 8027520, paragraph 3.21, for resistance to humidity.)

## **Magnetic Permeability**

(Meets AFLC 8027520, paragraph 3.3.3) Maximum of 2.0µ magnetic permeability.

## SPECIFICATIONS

## Vibration

(Meets AFLC 8027520, paragraph 3.19) Maintains continuity and exhibits no mechanical or physical damage during or after the following vibration levels. Level I-duration: 34 minutes per axis

Lover I auranc	ni. Of ninitates per axis
20-90	Hz at 6dB/oct. rise
90-300	Hz at 1.0g <sup>2</sup> /Hz
300-2000	Hz at 6dB/oct. fall

Level II-duration: 14 minutes per axis 20-40 Hz at 6dB/oct. rise

40-350	Hz at 0.5g <sup>2</sup> /Hz
350-2000	Hz at 6dB/oct. fall
No discontinuities	greater than 1 microsecond

No dis	continuities g	reater	than	1 microsecon
intact	Resistanc	e at	25°C	

## Co

Wire (AWG)	Test Current (Amps)	Millivolt Drop (*)
26	2	53
22	5	73
20	7.5	55
16	13	50
12	23	42

#### **Usable Wire Size**

(Meets AFLU 002/5	20, paragraph 5.4.5.1)
Contact Size	Accepts (AWG)
22	22-26
20	20-24
16	16-20
12	12 & 14

#### **Grommet Sealing Range**

(Meets AFLC 8027520, paragraph 3.4.3.1)

Contact Size	Max. Wire O.D.	Min. Wire O.D.
22	.060	.030
20	.083	.040
16	.109	.065
12	.142	.097

#### **Fluid Compatibility**

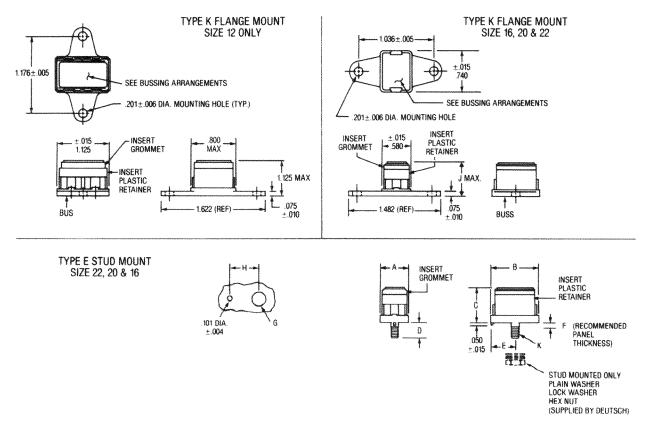
(Meets AFLC 8027520, paragraph 1.2.9) Designed to function in all fluids encountered in any modern military or aerospace environment. Available with options to operate in the following fluid environments.

Classification	Fluid*
MIL-H-5606	Aircraft Hydraulic Fluid
MIL-T-5624	JP-5 Jet Fuel
MIL-L-7808	Lubricating Oil
MIL-L-23699	Lubricating Oil
MIL-A-8243	Defrosting Fluid
MIL-C-25769	Alkaline Cleaning Compound
MIL-G-3056	Gasoline

Also: Isopropyl Alcohol, Mineral Spirits, 1-1-1 Trichloroethane, Freon TMC, Methylene Chloride

# **Composite Termination System** CTJ7 Series, CTG Series

CTJ7 OUTLINE DIMENSIONS



Part No.	Size	A ±.015	B ±.015	C Max.	D ±.015	E Ref.	F Max.	G ±.004	H ±.002	J Max.	K Thread
CTJ722*01C	22	.580	.740	.830	.350	.353	.125	.205	.340	.830	10-32 UNF
CTJ720*01B	20	.580	.740	.995	.350	.353	.125	.205	.340	.955	10-32 UNF
CTJ716*01D	16	.580	.740	.995	.350	.353	.125	.205	.340	.955	10-32 UNF
CTJ712*01E	12		ann fan Landar (fan Landar), ann fan Landar (fan Landar), ann fan Landar (fan Landar), ann fan Landar (fan Land	See dra	wing abov	e for dim	ensions. I	No size 12	in stud m	tg.	lan management of the second second provided to prior descent on some

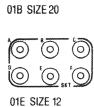


## MIL-T-81714 Series II

## **COMPOSITE TERMINATION SYSTEM**

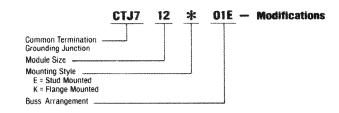
# CTJ7 BUSSING ARRANGEMENTS Image: Stress of Stre



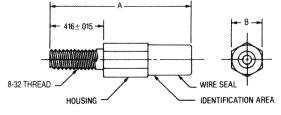


## CTJ7

ORDERING INFORMATION



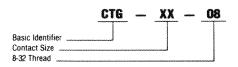
## CTG OUTLINE DIMENSIONS



Parts are supplied with washer.

Part Number	Contact Size	A±.031	B±.015	Wire sealing range (smooth insulation 0.D.)
CTG-22-08	22	1.311	.188	.030060
CTG-20-08	20	1.240	.188	.040083
CTG-16-08	16	1.246	.250	.068109
CTG-12-08	12	.1370	.313	.097142

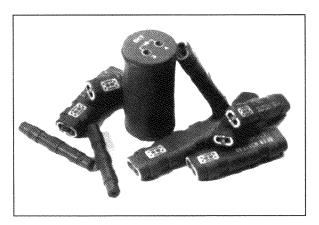
## CTG ORDERING INFORMATION





## CTL Series, CTM Series, **CTN Series**

In-line Junctions for connecting two to four wires in-line, and multi-junctions for housing and sealing individual components.



The Deutsch In-Line Junction (CTL) is used to connect two wires in-line utilizing crimp-type contacts. The junction can then be placed in a wire bundle without being mounted.

The Multi-Junction (CTM) connects and busses four wires. It can be used to replace "Y" splices and terminal strips.

The Electronic Multi-Junction (CTN) is an in-line device that houses and shields any passive or active components, including fuses, resistors, diodes, capacitors, etc.

## **Dielectric Withstanding Voltage**

(MIL-T-81714, paragraph 3.5.6) At sea level: 1500 Volts AC (RMS) At 110,000 ft.: 200 Volts AC (RMS)

## **Insulation Resistance**

(MIL-T-81714, paragraph 3.5.11) 5000 megohms min. at 25°C.

## Current Rating (Meets MIL-C-39029)

Contact Size	Max. Amps
22	5
20	7.5
16	13
12	23

## Temperature

(MIL-T-81714) Operative at temperatures from -65°C to +200°C.

## **Physical Shock**

(MIL-T-81714 paragraph 3.5.9) Items shall not be damaged and there shall be no loosening of parts due to shock. There shall be no interruption of electrical continuity longer than one microsecond during the exposure to mechanical shock.

## Corrosion

(MIL-T-81714, paragraph 3.5.12) Salt Spray. Components shall show no exposure of basis metal due to corrosion that will affect performance, when tested.

## **Vibration**

(MIL-T-81714, paragraph 3.5.8) Items furnished under this specification shall not be damaged and there shall be no loosening of parts due to vibration. There shall be no interruption of electrical continuity longer than one microsecond in duration during the vibration test.

## SPECIFICATIONS **Grommet Sealing Range**

(MIL-T-81714, Table I)

Contact Size	Max. Wire 0.D.	Min. Wire 0.D
22	.060	.030
20	.083	.040
16	.109	.065
12	.142	.097

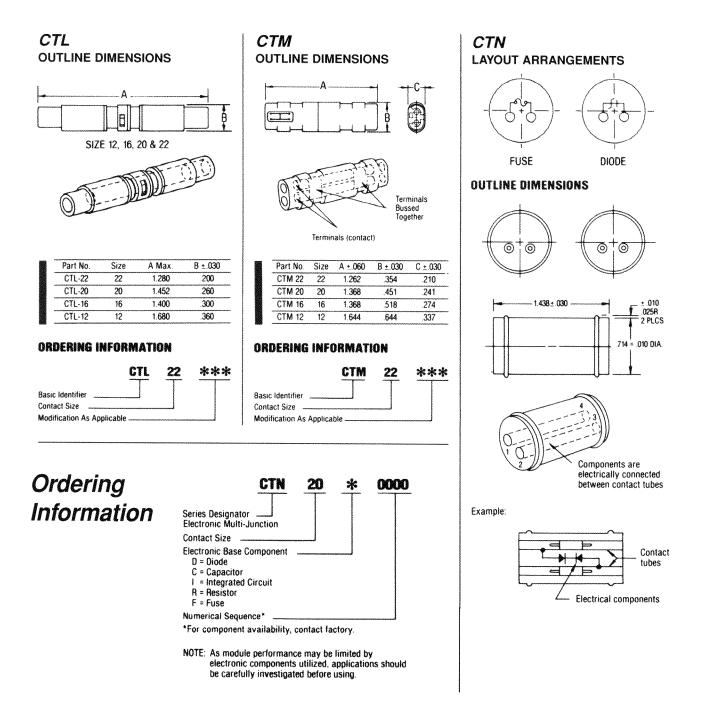
## **Fluid Compatibility**

Designed to function in many fluids encountered in most modern military or aerospace environments. Available with options to operate in the following fluid environments, in accordance with MIL-T-81714.

Classification	Fluid*
MIL-H-5606	Aircraft Hydraulic Fluid
MIL-T-5624	JP-5 Jet Fuel
MIL-L-7808	Lubricating Oil
MIL-L-23699	Lubricating Oil
MIL-A-8243	Defrosting Fluid
MIL-C-25769	Alkaline Cleaning Compound
MIL-G-3056	Gasoline
	I Alcohol, Mineral Spirits. ethane, Freon TMC,



## **Composite Termination System** CTL/CTM/CTN Series



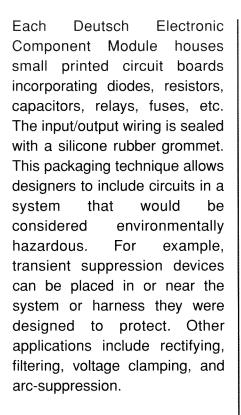


## COMPOSITE TERMINATION SYSTEM

# Composite Termination System

## **CTJ4** Series

Electronic Component Module that offers crimp-tool terminations and a housing system for discrete components and circuits.



## **Dielectric Withstanding Voltage\***

(MIL-T-81714, paragraph 3.5.6) At sea level: 1500 Volts AC (RMS) At 100,000 ft.: 200 Volts AC (RMS)

#### Thermal Shock\*

(MIL-T-81714, paragraph 3.5.5) After cycling the modules between -55°C and +200°C, they will meet all applicable electrical and mechanical requirements.

## Current Rating\*

(Exceeds MIL-C-39029)

Contact Size	Max. Amps
20	7.5
 12	23

## **Temperature\***

(MIL-T-81714) Operative at temperatures from -65°C to +125°C\*\*

## Vibration\*

(MIL-T-81714, paragraph 3.5.8)

## **Usable Wire Size**

(MIL-C-39029, paragraph 3.4.2)

Contact Size	Accepts (AWG)
20	20-24
12	12 & 14

## SPECIFICATIONS

Grommet Sealing Range (MIL-C-39029, paragraph 3.4.2)

Contact Size	Max. Wire O.D.	Min. Wire 0.D
20	.083	.040
12	.142	.097

#### Fluid Compatibility

Designed to function in most fluids encountered in many modern military or aerospace environments. Available with options to operate in the followig fluid environments.

## (MIL-T-81714, paragraph 4.6.7)

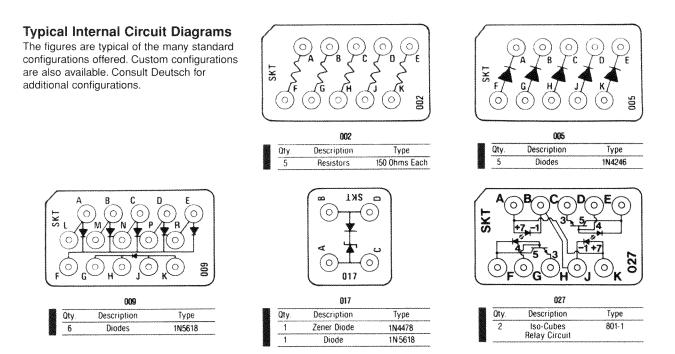
Classification	Fluid*
MIL-H-5606	Aircraft Hydraulic Fluid
MIL-T-5624	JP-5 Jet Fuel
MIL-L-7808	Lubricating Oil
MIL-L-23699	Lubricating Oil
MIL-A-8243	Defrosting Fluid
MIL-C-25769	Alkaline Cleaning Compound
MIL-G-3056	Gasoline
*Also: Isopropyl	Alcohol, Mineral Spirits.
1-1-1 Trichloroe	ethane, Freon TMC.

\*The indicated performance values are given for general design information but may require adjustments due to applicable electronic component sensitivity

\*\*Limited by component

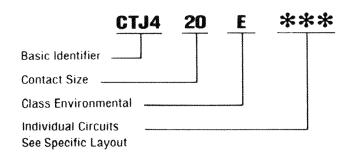


# Composite Termination System CTJ4 Series



\*Consult factory for additional layouts.

# **Ordering Information**





## Socket Contacts

The most rugged Contact in the Industry designed to MIL-C-39029/22

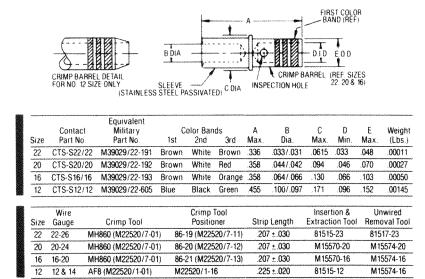


The Deutsch Composite System MIL-Cis designed to use 39029/22 contacts. These Deutsch contacts are designed with a protected or hooded entry providing increased durability during handling. Actual termination to the wire is accomplished by crimping, thus insuring reliability.

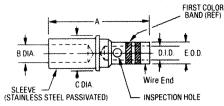
Reduced crimp barrel diameters are available to accommodate a variety of wire sizes. These contacts can be provided with extended life plating. Consult factory for further information.

Inside each composite module is a high technology cold extruded pin type bussbar. As each socket contact is inserted into a composite component it mates with this extruded pin allowing "pin and socket" engagement.

## STANDARD CONTACT DIMENSIONS



## REDUCED CRIMP BARREL (crimp type)



 Body Material: Per MIL-C-39029, Type A
Body Finish: Gold per MIL-G-45204, Type II, Class 1, over a suitable underplating, excluding silver.

Size	Contact Part No.	Color Bands 1st 2nd	A Max.			8 Dia		N	C lax.	D Min.	E Max.	Max. Weight (Lbs.)	Wire Gauge
20	1662-202-2031	RED GREEN	.358		.04	14/.	042	ļ	094	.033	.050	.00027	22 thru 26
16	1662-202-1631	BLUE RED	.358		.06	547.	066		130	.046	.070	.00050	20 thru 24
12	1662-202-1231	YELLOW BLUE	.460		.10	0/.	097		171	.066	.103	.00145	16 thru 20
 Crimp Tool			Wire S		Setting Wire Size			Strip		Insertion & Extraction		Unwired Removal	
Size	Crimp Tool	Positioner	16	18	20	22	24	26	]	Length		Tool	Tool
20	M22520/1-01	TH343 RED	T	Γ	Γ	3	2	1	2	07 ± .030	M1	5570-20	None
16	M22520/1-01	TH343 BLUE			4	3	2		2	07 ± .030	M1	5570-16	M15574-2
12	M22520/1-01	TH343 YELLOW	6	5	4	T			1 2	25 ± .020	81	515-12	M15574-1



# **Composite Termination System** Socket Contacts

## **Thermal Shock**

(Meets MIL-C-39029, paragraph 3.5.6) Temperature

(Meets MIL-C-39029, paragraph 1.2.2.) Operative at temperatures from -65°C to +200°C.

## **Current Rating**

## (Meets MIL-C-39029)

(	
Contact Size	Max. Amps
22	5
20	7.5
16	13
12	23

#### **Physical Shock**

(Meets MIL-C-39029, paragraph 3.5.11) Vibration

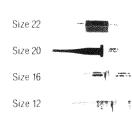
(Meets MIL-C-39029, paragraph 3.5.10)

## REDUCED DIAMETER CONTACT ORDERING INFORMATION

	Contact Size	Deutsch Part No.
	20	1662-202-2031
	16	1662-202-1631
-	12	1662-202-1231

## **CONTACT DIMENSIONS**

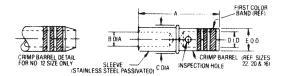
ASSEMBLY TOOLS Wire/contact assembly tools are standard military type insertion/removal tools found in most assembly areas.





## STANDARD CONTACT TOOLS ORDERING INFORMATION

Contact Size	Insertion/ Removal Tool	Crimp Tool	Crimp Tool Positioner	Sealing Plug
22	81515-23	M22520/7-01	M22520/7-11	1613-03-2205
20	M15570-20 M81969/14-11	M22520/7-01	M22520/7-12	81539-20
16	M15570-16 M81969/14-03	M22520/7-01	M22520/7-13	81539-16
12	81515-12	M22520/1-01	M22520/1-16	81539-12



Size	Contact Part No.	Equivalent Military Part No.	C 1st	olor Ban 2nd	ds 3rd	A Max.	B Dia.	C Max	D Min	E Max	Weight (Lbs.)
22	CTS-S22/22	M39029/22-191	Brown	White	Brown	.336	.033/.031	0615	033	048	00011
20	CTS-S20/20	M39029/22-192	Brown	White	Red	.358	044/ 042	.094	.046	070	.00027
16	CTS-S16/16	M39029/22-193	Brown	White	Orange	.358	064/.066	.130	.066	103	.00050
12	CTS-S12/12	M39029/22-605	Blue	Black	Green	455	.100/.097	.171	.096	.152	.00145

Size	Wire Gauge	Crimp Tool	Crimp Tool Positioner	Strip Length	Insertion & Extraction Tool	Unwired Removal Tool
22	22-26	MH860 (M22520/7-01)	86-19 (M22520/7-11)	207 ± 030	81515-23	81517-23
20	20-24	MH860 (M22520/7-01)	86-20 (M22520/7-12)	207 ± 030	M15570-20	M15574-20
16	16-20	MH860 (M22520/7-01)	86-21 (M22520/7-13)	207 ± 030	M15570-16	M15574-16
12	12 & 14	AF8 (M22520/1-01)	M22520/1-16	225 ± 020	81515-12	M15574-16



# Part Number Cross Reference

## Composite Termination System MIL-T-81714E Series II

QPL Authorization NAC 29.13/02-13-89

Government Designation	Deutsch Designation	Government Designation	Deutsch Designation
M81714/60-12-01	CTJ112E01E-513	M81714/64-12	CTG-12-08-513
02	02A	16	16-08
03	038	20	20-08
16-01	CTJ116E01D-513	22	22-08
02	02B	M81714/65-12-1	CTL-12-513
03	03A	12-2	CTM-12-513
00.04		16-1	CTL-16-513
20-01	CTJ120E01B-513	16-2	CTM-16-513
02	020	20-1	CTL-20-513
03	03D	20-2	CTM-20-513
04	04A	22-1	CTL-22-513
06	06E	22-2	CTM-22-513
22-01	CTJ122E01C-513	M81714/67-02	CTJ-3A-02-4032
02	02D	03	03
04	04F	04	04
05	05E	05	05
06	068	06	06
10	10A	07	07
M81714/61-0W	CTD1062E05A-513	08	08
0X	CTD126E02E-513	09	09
OY	CTD160E01F-513	10	10
0Z	CTD126E01A-513	12	12
		13	13
M81714/62-20-AH	CTJ420E009-7065	14	14
AL	012	15	15
AW	021	16	16
AZ	027	18	18
BA	028	19	19
BG	034	20	20
BP	041	21	21
CM	128	25	25
CN	129	30	30
M81714/63-16F	CTJ716KØ1D-7067	40	40
20S	CTJ720EØ1B-7067	101711/00 04	
22F	CTJ722KØ1C-7067	M81714/69-01	CTJ-R06
228	CTJ722EØ1C-7067	02	CTJ-R12



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