



# DEUTSCH SOLID CONTACTS FOR COPPER CABLES

INDUSTRY STANDARD CONTACTS

## HARSH ENVIRONMENT SOLID CONTACTS

- // EN3155 certified
- // Standard Temperature Rating to 200°C
- // Jet Engine Applications to 260°C (ESC)
- // 1400 Solid Contact Part Selection Range
- // Signal/Power/Thermocouple/Data





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# DEUTSCH

## SOLID CONTACTS FOR COPPER CABLES



### HARSH ENVIRONMENT APPLICATIONS

- High Temperature Ratings: Standard 200°C / Jet Engine to 260°C
- NRG Band contacts with upgraded vibration resistance for jet engines

### INDUSTRIALISATION

- Certified production process (EN9001 and EN9100)
- Strategic manufacturing locations in 2 geographical areas for worldwide distribution

### RELIABILITY

- EN3155 certification
- Customer Qualified Part Lists (QPL)

### WIDE OFFERING

- More than 1400 references (standard and specific)

TE Connectivity (TE) offers a complete range of solid contacts integrated into most of TE's DEUTSCH connectors currently available on aerospace, defense, and marine markets.

These contacts are designed for standard applications up to 200°C, but also to help withstand higher temperatures and higher vibration constraints up to 260°C for engine applications.

According to markets, and customer needs, our contacts can be qualified to the EN3155 standard or to specific customer standards such as ESC or ABS qualifications. In order to know the latest qualification status of our contacts, please consult us.

The EN3155 standards mentioned in this catalog are subject to normative evolutions.

Main contact families are :

### SIGNAL CRIMP CONTACTS

- **AWG #24 to 12**

### THERMOCOUPLE CONTACTS

- **AWG #22 to 12**

### POWER CRIMP CONTACTS

- **AWG #10 to 0**

### ACCESSORIES

- **Crimp tool**
- **Positioner**
- **Insertion/Extraction tool**
- **Sealing plugs**
- **Dummy contacts**

### DATA CONTACTS

- **Coax**
- **Triax**
- **Quadrx**
- **Twinax**

**TE Components . . . TE Technology . . . TE Know-how . . .**

AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem  
SEACON | Rochester | DEUTSCH

Empower Engineers to Solve Problems, Moving the World Forward.



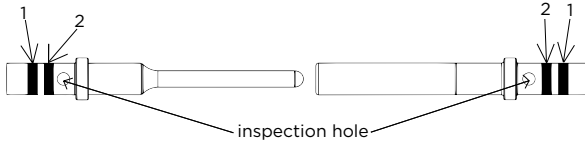
**EN3155 color coding**

Band 1 defines the conductor section, and band 2 defines the active area size.

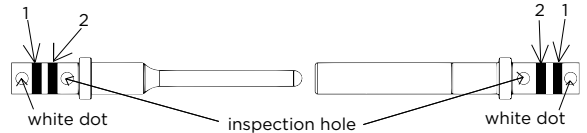
If the conductor section and the active area have the same size, then the contact can be identified by a single color band.

Contacts references containing an "A" suffix indicate a "selective gold plating" for temperatures up to 200°C (i.e.006-0937-20 A).

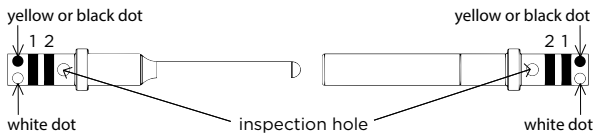
Color Coding  
Pin and Socket: EN3155 (200°C)



Color Coding  
Pin and Socket: EN3155 (260°C)



Color Coding  
Pin and Socket: EN3155 (Thermocouple)



Contact material :

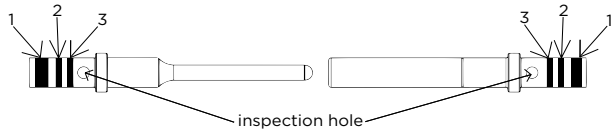
By default our contacts are manufactured in copper alloy.

Type K Contacts are defined as below :

**Kp** = 90% nickel and 10% chromium ;  
**Kn** = 95 % nickel, 2% aluminium and 3 % others

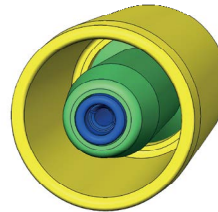
<b>Size</b>	24	23	22	20	16	12	10	8	4	0		
<b>Band 1</b>	black	purple	green	red	blue	yellow	white	red	blue	yellow		
<b>AWG</b>	26-30	24-28	22-26	22-28	20-24	18-22	18-24	16-20	14-18	14-20	12-14	10-12
<b>Band 2</b>	white	grey	green	black	red	purple	brown	blue	orange	white	yellow	brown

Color Coding  
Pin and Socket Contacts : AS39029

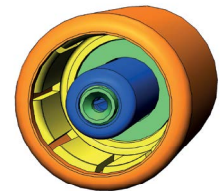


Data Contacts

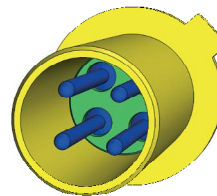
Coax



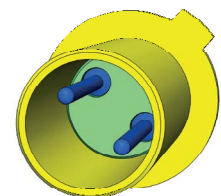
Triax



Quadrax



Twinax



- 0 black
- 1 brown
- 2 red
- 3 orange
- 4 yellow
- 5 green
- 6 blue
- 7 purple
- 8 grey
- 9 white

M39029/XX-XXX : the three last figures indicate the colors of the contact - example : M39029/57-354 354 = orange-green-yellow

Band 1 is two times wider than the two other bands. AS39029 contacts don't have enlarged or reduced barrel



# Signal and Power Contacts

## DMC-M Series Contacts EN4165

Active area / Mating Size	Part No.	Former Syst. Part No.	MIL Ref.	EN Ref.	Type	Color Bands		Marking yellow or black	Contact Material	Barrel
						AS39029	EN3155			
24	724-0001-24	-	-	-	P	-	-	-	-	standard
	724-0003-24	-	-	-	S	-	-	-	-	standard
23	182-4043-23	-	-	-	P	-	Green-Purple	-	-	standard
	182-4042-23	-	-	-	S	-	Green-Purple	-	-	standard
22	724-0001-22	-	M39029/58-360	EN3155-008M2222	P	Orange-Blue-Black	-	-	-	standard
	724-0003-22	-	M39029/57-354	EN3155-003F2222	S	Orange-Green-Yellow	-	-	-	standard
22	182-0860-22*	-	-	EN3155-070M2220	P	-	Red-Green	-	-	enlarged
	182-0862-22*	-	-	EN3155-071F2220	S	-	Red-Green	-	-	enlarged
22 (Shunt)	724-1272-22	-	-	EN3155-082F2222	S	-	-	-	-	standard
20	724-0001-20	-	M39029/58-363	EN3155-008M2020	P	Orange-Blue-Orange	-	-	-	standard
	724-0003-20	-	M39029/57-357	EN3155-003F2020	S	Orange-Green-Purple	-	-	-	standard
20	724-1063-20	-	-	EN3155-008M2018	P	-	Brown-Red	-	-	enlarged
	724-1064-20	-	-	EN3155-003F2018	S	-	Brown-Red	-	-	enlarged
16	724-0001-16	-	M39029/58-364	EN3155-008M1616	P	Orange-Blue-Yellow	-	-	-	standard
	724-0003-16	-	M39029/57-358	EN3155-003F1616	S	Orange-Green-Grey	-	-	-	standard
16	724-1063-16	-	-	EN3155-008M1614	P	-	White-Blue	-	-	enlarged
	724-1064-16	-	-	EN3155-003F1614	S	-	White-Blue	-	-	enlarged
12	724-0001-12	-	M39029/58-365	EN3155-008M1212	P	Orange-Blue-Green	-	-	-	standard
	724-0003-12	-	M39029/57-359	EN3155-003F1212	S	Orange-Green-White	-	-	-	standard
12	724-1063-12	-	-	-	P	-	White-Yellow	-	-	enlarged
	724-1064-12	-	-	-	S	-	White-Yellow	-	-	enlarged
08 (Power)	724-0001-08	-	-	-	P	-	-	-	-	standard
	724-0003-08	-	-	-	S	-	-	-	-	standard
08 (Power)	182-0001-08	-	-	-	P	-	-	-	-	standard
	182-0003-08	-	-	-	S	-	-	-	-	standard
08 (Power)	182-0393-08	-	-	-	P	-	-	-	-	reduced
	182-0394-08	-	-	-	S	-	-	-	-	reduced

\* flange diameter 1.8



# Signal and Power Contacts

## DMC-M Series Contacts - Tooling EN4165

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
24-26	0.15 - 0.25	600300-24 (black)	057-0463-12	M22520/2-01	057-1030-02 057-1030-01	-	605837-ZZ
22-26	0.15 - 0.40	028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0467-32 057-0515-32	M22520/2-09 M22520/2-06	M81969/14-01 057-0286-22
22-26	0.15 - 0.40	028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0467-32 057-0515-32	M22520/2-09 M22520/2-06	M81969/14-01 057-0286-22
20-24	0.25 - 0.60	028-0108-22 (yellow)	057-0463-12	M22520/2-01	057-0467-32 057-0515-32	M22520/2-09 M22520/2-06	M81969/14-01 057-0286-22
22-26	0.15 - 0.40	028-0108-22 (yellow)	057-0463-12	M22520/2-01	057-0515-32	M22520/2-06	M81969/14-01 057-0286-22
20-24	0.25 - 0.60	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M81969/14-10
18-24	0.25 - 1.00	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M81969/14-10
16-20	0.60 - 1.20	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M81969/14-03
14-20	0.60 - 2.00	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M81969/14-03
12-14	2.00 - 3.00	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M81969/14-04
10-12	3.00 - 5.00	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	-
8	8.98	-	057-0540-10	M300BT	057-0065-05 A	SP593	M81969/14-06 057-0286-08
8	8.98	-	057-0540-10	M300BT	057-0065-05 A	SP593	M81969/14-06 057-0286-08
10	5	-	057-0540-10	M300BT	057-0065-05 A	SP593	M81969/14-06 057-0286-08



## Signal and Power Contacts

DTS-K/DTS-S Series Contacts  
MIL-DTL-38999 III / EN3645

Active area / Mating Size	Part No.	Former Syst. Part No.	MIL Ref.	EN Ref.	Type	Color Bands		Marking yellow or black	Contact Material	Barrel
						AS39029	EN3155			
22	724-0001-22	-	M39029/58-360	EN3155-008M2222	P	Orange-Blue-Black	-	-	-	standard
	724-0007-22	-	M39029/56-348	EN3155-009F2222	S	Orange-Yellow-Grey	-	-	-	standard
22	182-0441-22*	-	M39029/107-620	-	P	Blue-Red-Black	-	-	-	standard
	182-0447-22*	-	M39029/106-614	-	S	Blue-Brown-Yellow	-	-	-	standard
20	724-0001-20	-	M39029/58-363	EN3155-008M2020	P	Orange-Blue-Orange	-	-	-	standard
	724-0007-20	-	M39029/56-351	EN3155-009F2020	S	Orange-Green-Brown	-	-	-	standard
20	724-1105-20	-	-	-	P	-	Green-Red	-	-	reduced
	724-1106-20	-	-	-	S	-	Green-Red	-	-	reduced
20	182-0068-20	-	-	-	P	-	Red-Red	Black	Kn	standard
	182-0009-20	-	-	-	S	Yellow-Grey-Purple	-	-	-	standard
20	182-0069-20	-	-	-	P	-	Red-Red	Yellow	Kp	standard
	182-0010-20	-	-	-	S	Yellow-Grey-Grey	-	-	-	standard
20	182-0441-20*	-	M39029/107-621	-	P	Blue-Red-Brown	-	-	-	standard
	182-0447-20*	-	M39029/106-615	-	S	Blue-Brown-Green	-	-	-	standard
16	724-0001-16	-	M39029/58-364	EN3155-008M1616	P	Orange-Blue-Yellow	-	-	-	standard
	724-0007-16	-	M39029/56-352	EN3155-009F1616	S	Orange-Green-Red	-	-	-	standard
16	182-0441-16*	-	M39029/107-622	-	P	Blue-Red-Red	-	-	-	standard
	182-0447-16*	-	M39029/106-616	-	S	Blue-Brown-Blue	-	-	-	standard
12	724-0001-12	-	M39029/58-365	EN3155-008M1212	P	Orange-Blue-Green	-	-	-	standard
	724-0007-12	-	M39029/56-353	EN3155-009F1212	S	Orange-Green-Orange	-	-	-	standard
12	182-0441-12*	-	M39029/107-623	-	P	Blue-Red-Orange	-	-	-	standard
	182-0447-12*	-	M39029/106-617	-	S	Blue-Brown-Purple	-	-	-	standard
8	182-0001-08	-	-	-	P	-	-	-	-	standard
	182-0003-08	-	-	-	S	-	-	-	-	standard
8	724-0001-08	-	-	-	P	-	-	-	-	standard
	724-0003-08	-	-	-	S	-	-	-	-	standard

\* 1500 cycles





# Signal and Power Contacts

DTS-K/DTS-S Series Contacts - Tooling  
MIL-DTL-38999 III / EN3645

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
22-26	0.15 - 0.4	028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0467-32	M22520/2-09	M81969/14-01 057-0286-22
					057-0468-32	M22520/2-07	
22-26	0.15 - 0.4	028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0467-32	M22520/2-09	M81969/14-01 057-0286-22
					057-0468-32	M22520/2-07	
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-20 006-0902-20
26-30	0.055 - 0.15	006-0893-20 (red)	057-0463-12	M22520/2-01	057-0464-32	M22520/2-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-20 006-0902-20
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-16 006-0902-16
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-16 006-0902-16
12-14	2 - 3	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-12 006-0902-12
12-14	2 - 3	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-12 006-0902-12
8	8.98	-	057-0540-10	M300BT	057-0065-05 A	SP593	M81969/14-06 057-0286-08
8	8.98	-	057-0540-10	M300BT	057-0065-05 A	SP593	M81969/14-06 057-0286-08



## Signal and Power Contacts

DTS-K/DTS-S Series Contacts  
MIL-DTL-38999 III Classes K and S / EN3645 class K

Active area / Mating Size	Part No.	Former Syst. Part No.	MIL Ref.	EN Ref.	Type	Color Bands		Marking yellow or black	Contact Material	Barrel
						AS39029	EN3155			
22	724-0001-22	-	M39029/58-360	EN3155-008M2222	P	Orange-Blue-Black	-	-	-	standard
	724-0007-22	-	M39029/56-348	EN3155-009F2222	S	Orange-Yellow-Grey	-	-	-	standard
20	724-0001-20	-	M39029/58-363	EN3155-008M2020	P	Orange-Blue-Orange	-	-	-	standard
	097-0236-20*	-	M39029/56-351	-	S	Orange-Green-Brown	-	-	-	standard
20	724-0001-20	-	M39029/58-363	EN3155-008M2020	P	Orange-Blue-Orange	-	-	-	standard
	724-0007-20	-	M39029/56-351	EN3155-009F2020	S	Orange-Green-Brown	-	-	-	standard
20	182-0068-20	-	-	-	P	-	Red-Red	Black	Kn	standard
	182-0009-20	-	-	-	S	Yellow-Grey-Purple	-	-	-	standard
20	182-0069-20	-	-	-	P	-	Red-Red	Yellow	Kp	standard
	182-0010-20	-	-	-	S	Yellow-Grey-Grey	-	-	-	standard
20	724-1063-20	-	-	EN3155-008M2018	P	-	Brown-Red	-	-	Enlarged
	724-1079-20	-	-	EN3155-009F2018	S	-	-	-	-	standard
16	724-0001-16	-	M39029/58-364	EN3155-008M1616	P	Orange-Blue-Yellow	-	-	-	standard
	097-0236-16*	-	M39029/56-352	-	S	Orange-Green-Red	-	-	-	standard
16	724-0001-16	-	M39029/58-364	EN3155-008M1616	P	Orange-Blue-Yellow	-	-	-	standard
	724-0007-16	-	M39029/56-352	EN3155-009F1616	S	Orange-Green-Red	-	-	-	standard
12	724-0001-12	-	M39029/58-365	EN3155-008M1212	P	Orange-Green-Orange	-	-	-	standard
	097-0236-12*	-	M39029/56-353	-	S	Orange-Blue-Orange	-	-	-	standard
12	724-0001-12	-	M39029/58-365	EN3155-008M1212	P	Orange-Green-Orange	-	-	-	standard
	724-0007-12	-	M39029/56-353	EN3155-009F1212	S	Orange-Blue-Orange	-	-	-	standard
08	182-0393-08	-	-	-	P	-	-	-	-	standard
	182-0394-08	-	-	-	S	-	-	-	-	standard
08	724-0001-08	-	-	-	P	-	-	-	-	standard
	724-0003-08	-	-	-	S	-	-	-	-	standard
08	182-4037-08	-	-	EN3155-065M0808	P	-	Red	-	-	standard
	182-4038-08	-	-	EN3155-083F0808	S	-	-	-	-	standard
08	182-4034-08	-	-	EN3155-065M0810	P	-	White-Red	-	-	reduced
	182-4035-08	-	-	EN3155-065M0810	S	-	-	-	-	reduced

\* NRG band contacts



# Signal and Power Contacts

DTS-K/DTS-S Series Contacts - Tooling  
 MIL-DTL-38999 III Classes K and S / EN3645 class K

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
22-26	0.15 - 0.4	028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0467-32	M22520/2-09	M81969/14-01 057-0286-22
					057-0468-32	M22520/2-07	
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-20 006-0902-20
18-24	0,25-1	-	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M81969/14-10
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-16 006-0902-16
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-16 006-0902-16
12-14	2 - 3	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-12 006-0902-12
12-14	2 - 3	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-12 006-0902-12
8	8,98	-	057-0540-10	M300BT	057-0065-05 A	SP593	M81969/14-06 057-0286-08
8	8,98	-	057-0540-10	M300BT	057-0065-05 A	SP593	M81969/14-06 057-0286-08
8	8,98	-	057-0540-10	M300BT	057-1036-08	-	M81969/14-06 057-0286-08
10	5	-	057-0540-10	M300BT	057-1036-08	-	M81969/14-06 057-0286-08



# Signal and Power Contacts

## FAST Series Contacts EN3545

### Signal

Active area / Mating Size	Part No.	Former Syst. Part No.	MIL Ref.	EN Ref.	Type	Color Bands			Wire Range	
						AS39029	EN3155	Barrel	AWG	mm <sup>2</sup>
22	724-0001-22	-	M39029/58-360	EN3155-008M2222	P	Orange-Blue-Black	-	standard	22-26	0.15 - 0.4
	724-0003-22	-	M39029/57-354	EN3155-003F2222	S	Orange-Green-Yellow				
20	182-0120-20	-	-	EN3155-014M2018	P	-	Brown-Red	standard	18-24	0.25 - 1
	182-0118-20	-	-	EN3155-015F2018	S	-				
16	724-0001-16	-	M39029/58-364	EN3155-008M1616	P	Orange-Blue-Yellow	-	standard	16-20	0.6 - 1.2
	724-0003-16	-	M39029/57-358	EN3155-003F1616	S	Orange-Green-Grey				
16	724-1063-16	-	-	EN3155-008M1614	P	-	White-Blue	enlarged	14-20	0.6 - 2
	724-1064-16	-	-	EN3155-003F1614	S	Yellow-Grey-Purple				

### Power K6

Kit contact (contacts + sleeve)			Wire size AWG	Decomposition of the kit		Color Bands
Commercial Part No.	ABS reference	Type		Contact Part No.	Sleeve	
182-0672-06	ABS1403-1K6KZ06	P	6	182-0657-06	182-0601-06 ABS0992B03	Green-Green
182-0704-06	ABS1344-1K6LZ06	S		182-0700-06		
182-0672-08	ABS1403-1K6KZ08	P	8	182-0661-06	182-0601-08 ABS0992B01	Green-Red
182-0704-08	ABS1344-1K6LZ08	S		182-0701-06		
182-0672-10	ABS1403-1K6KZ10	P	10	182-0664-06	182-0601-10 ABS0992B02	Green-Brown
182-0704-10	ABS1403-1K6KZ10	S		182-0702-06		

### Dummy contact

Active area / Mating Size	Part No.	ASNE Ref.
20	182-0899-20	ASNE0397FY2000
16	182-4114-16	ASNE0397FY1600
12	182-0899-12	ASNE0397FY1200



# Signal and Power Contacts

FAST Series Contacts - Tooling  
EN3545

Sealing plug		Crimp Tool		Positioner		Insertion/Extraction Tool
Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.		
028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0467-32	M22520/2-09	M81969/14-01 057-0286-22	
			057-0515-32	M22520/2-06		
006-0893-20 (red)	057-0463-12	M22520/2-01	057-0485-32	M22520/2-08	M81969/39-01 057-0620-60	
006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-16 006-0902-16	
006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0466-21	M22520/1-04	M15570-16 006-0902-16	

Sealing plug	Crimp Tool	Die Assembly	Positioner		Insertion/Extraction Tool	Filler Plug
Ref.	MIL Part No.	MIL Part No.	Part No.	MIL Part No.		
182-0601-06	M22520/23-01	M22520/23-03	182-0659-06	WA23-196L	025-0711-06	182-8004-08 A
182-0601-08	M22520/23-01	M22520/23-02	182-0659-06	WA23-196L	025-0711-06	182-8004-08 A
182-0601-10	AWG 10: M22520/23-01 AWG 12: M300BT	AWG 10: WA23-265 DA AWG 12: included in M300BT	AWG 10 : 182-0659-06 AWG 12 : TP1498	WA23-196L 057-0860-06	025-0711-06	182-8004-08 A



# Signal and Power Contacts

FDBA/AFD/DFE Series Contacts  
EN3646 / MIL-DTL-26482

Active area / Mating Size	Part No.	Former Syst. Part No.	MIL Ref.	EN Ref.	Type	Color Bands		Marking yellow or black	Contact Material	Barrel
						AS39029	EN3155			
20	006-0937-20 A-A834	-	M39029/4-110	-	P	Brown-Brown-Black		-	-	standard
	006-0912-20 A-A834	-	M39029/5-115	-	S	Brown-Brown-Green		-	-	
20	006-0937-20 A	004-0139-20	-	EN3155-018M2020	P	-	Red	-	-	standard
	006-0912-20 A	004-0140-20	-	EN3155-019F2020	S	-	-	-	-	
20	006-0044-20 A	004-0141-20	-	EN3155-018M2018	P	-	Brown-Red	-	-	enlarged
	006-0055-20 A	004-0142-20	-	EN3155-018F2018	S	-	-	-	-	
20	006-0972-20 A	0641-24-2059C	-	-	P	-	Black-Red	-	-	reduced
	006-0973-20 A	0603-21-2059C	-	-	S	-	-	-	-	
20	006-1186-20	0641-14-2001	-	-	P	-	Red-Red + white dot	Yellow	Kp	standard
	006-1187-20	0603-16-2001	-	-	S	-	-	-	-	
20	006-1188-20	0641-15-2001	-	-	P	-	Red-Red + white dot	Black	Kn	standard
	006-1189-20	0603-15-2001	-	-	S	-	-	-	-	
20	006-1060-20	-	-	-	P	-	-	-	Co	enlarged
	006-1062-20	-	-	-	S	-	-	-	-	
20	025-0404-20	-	-	-	P	-	Purple-Red	Yellow	Kp	enlarged
	025-0405-20	-	-	-	S	-	Purple-Red	-	-	
20	025-0402-20	-	-	-	P	-	Purple-Red	Black	Kn	enlarged
	025-0403-20	-	-	-	S	-	Purple-Red	-	-	
20	025-0406-20	-	-	-	P	-	Purple-Red	-	Co	enlarged
	025-0407-20	-	-	-	S	-	-	-	-	
16	006-0937-16 A	004-0139-16	-	EN3155-018M1616	P	-	Blue-Blue	-	-	standard
	006-0912-16 A	004-0140-16	-	EN3155-019F1616	S	-	-	-	-	
16	006-1102-16 A	004-0141-16	-	EN3155-018M1614	P	-	White-Blue	-	-	enlarged
	006-1104-16 A	004-0142-16	-	EN3155-019F1614	S	-	-	-	-	
16	004-0160-16 A	-	-	EN3155-018M1618	P	-	Brown-Blue	-	-	reduced
	004-0159-16 A	-	-	EN3155-019F1618	S	-	-	-	-	
16	006-1168-16 A	109026-16A	-	-	P	-	Red-Blue	-	-	reduced
	006-1169-16 A	109027-16A	-	-	S	-	-	-	-	
16	025-0870-16	-	-	-	P	-	White-Blue	-	-	reduced
	025-0871-16	-	-	-	S	-	-	-	-	
16	006-0982-16	-	-	-	P	-	Blue-Blue	Yellow	Kp	-
	097-0037-16	-	-	-	S	-	-	-	-	
16	006-0983-16	-	-	-	P	-	Blue-Blue	Black	Kn	-
	097-0036-16	-	-	-	S	-	-	-	-	
12	006-0937-12 A	004-0139-12	-	EN3155-018M1212	P	-	Yellow	-	-	standard
	006-0912-12 A	004-0140-12	-	EN3155-019F1212	S	-	-	-	-	
12	006-1157-12 A	109028 A	-	-	P	-	Blue-Yellow	-	-	reduced
	006-1159-12 A	109029 A	-	-	S	-	-	-	-	
8	005-0893-08	101333-59	-	-	P	-	-	-	-	standard
	005-0896-08	101334-59	-	-	S	-	-	-	-	
8 (87)	005-0257-08	-	-	-	P	-	Brown-Red	-	-	reduced
	005-0258-08	-	-	-	S	-	-	-	-	
8 (88)	006-0041-08	DF06A 041 08	-	-	P	-	Red	-	-	standard
	006-0040-08	DF06A 040 08	-	-	S	-	-	-	-	



# Signal and Power Contacts

FDBA/AFD/DFE Series Contacts - Tooling  
EN3646 / MIL-DTL-26482

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-24	0.25 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
26-30	0.055 - 0.15	006-0893-20 (red)	057-0463-12	M22520/2-01	057-0464-32	M22520/2-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
16-20	0.6 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
14-18	1 - 2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
18-24	0.25 - 1	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
20-24	0.25 - 0.6	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
26-30	0.055 - 0.15	006-0893-16 (blue)	057-0463-12	M22520/2-01	057-0464-32	M22520/2-02	M15570-16 006-0902-16
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
12-16	1.2 - 3	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12
16-20	0.6 - 1.2	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12
8-10	5 - 8.98	006-0893-08 (green)		To be soldered			M15570-25 006-0902-08
10	5	006-0893-08 (green)	057-0486-15	M22520/5-01	057-0065-00	-	M15570-25 006-0902-08
8	8.98	006-0893-08 (green)	057-0486-15	M22520/5-01	057-0065-00	-	M15570-25 006-0902-08



# Signal and Power Contacts

## TJ/FMJ Series Contacts

Active area / Mating Size	Part No.	Former Syst. Part No.	EN Ref.	Type	Color Bands		Marking yellow or black	Contact Material	Barrel
					AS39029	EN3155			
22	020-0511-22	-	EN3155-016M2222	P	-	-	-	-	standard
22	019-0857-22	100060-56	-	P	-	-	-	-	standard
22	123-0001-22	-	-	P	-	-	-	-	standard
22	182-0671-22	-	-	P	-	-	-	-	standard
22	019-1055-22	-	-	P	-	-	-	-	standard
20	182-0908-20	-	EN3155-016M2020	P	-	-	-	-	standard
20	123-0001-20	-	-	P	-	-	-	-	standard
20	020-0511-20	-	EN3155-016M2018	P	-	-	-	-	enlarged
20	020-0008-20	1841-1-5620	-	P	-	-	-	-	enlarged
20	182-0439-20	-	-	P	-	-	-	-	enlarged
16	020-0511-16	-	EN3155-016M1616	P	-	-	-	-	standard
16	020-0008-16	1841-1-5616	-	P	-	-	-	-	standard
16	123-0001-16	-	-	P	-	-	-	-	standard
16	182-0439-16	182-0439-16	-	P	-	-	-	-	standard
12	020-0511-12	020-0511-12	EN3155-016M1212	P	-	-	-	-	standard
12	020-0008-12	1841-1-5612	-	P	-	-	-	-	standard
12	018-0011-12	DF 18-011-12	-	P	-	-	-	-	reduced
12	018-0865-12	DF 18-865-12-9056	-	P	-	-	-	-	reduced
12	123-0001-12	-	-	P	-	-	-	-	standard
8	020-0008-08	1841-5-5608	-	P	-	-	-	-	standard
8	018-0007-08	DF 18-007-08-9056	-	P	-	-	-	-	reduced
8	018-0878-08	DF 18-878-08	-	P	-	-	-	-	reduced
8	018-0008-08	DF 18-008-08-9056	-	P	-	-	-	-	reduced





# Signal and Power Contacts

## TJ/FMJ Series Contacts - Tooling

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
22-26	0.15 - 0.4	028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
22-26	0.15 - 0.4	028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
22-26	0.15 - 0.4	028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
22-26	0.15 - 0.4	028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0851-22	K127-3	M15570-22-1 028-0114-22
22-26	0.15 - 0.4	028-0102-22 (yellow)	To be soldered				M15570-22-1 028-0114-22
20-24	0.25 - 0.60	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
20-24	0.25 - 0.60	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-24	0.25 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-24	0.25 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-24	0.25 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-18	1 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-18	1 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
12-14	2 - 3	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12
12-14	2 - 3	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12
16-18	1 - 1.2	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12
20-24	0.25 - 0.60	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12
12-14	2 - 3	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12
8	8.98	006-0893-08 (green)	057-0540-10	M300BT	057-0542-30	SP708	Manual/020-0011-08
10	5	006-0893-08 (green)	057-0540-10	M300BT	057-0542-30	SP708	Manual/020-0011-08
12-14	2 - 3	006-0893-08 (green)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	Manual/020-0011-08
16-18	1 - 1.2	006-0893-08 (green)	057-0461-11	M22520/1-01	057-0503-21	TH18	Manual/020-0011-08



# Signal and Power Contacts

983 (200 °C) Series Contacts  
EN2997 (200 °C)

## Signal

Active area / Mating Size	Part No.	Former Syst. Part No.	MIL Ref.	EN Ref.	Type	Color Bands		Marking yellow or black	Contact Material	Barrel
						AS39029	EN3155			
22	097-0287-22	-	-	EN3155-078M2222	P	-	Green	-	-	standard
	097-0288-22	-	-	EN3155-079F2222	S	-				
20	006-0937-20 A	004-0139-20	-	EN3155-018M2020	P	-	Red	-	-	standard
	006-0912-20 A	004-0140-20	-	EN3155-019F2020	S	-				
20	006-0044-20 A	004-0141-20	-	EN3155-018M2018	P	-	Brown-Red	-	-	enlarged
	006-0055-20 A	004-0142-20	-	EN3155-018F2018	S	-				
20	006-0972-20 A	0641-24-2059C	-	-	P	-	Black-Red	-	-	reduced
	006-0973-20 A	0603-21-2059C	-	-	S	-				
20	006-1186-20	0641-14-2001	-	-	P	-	Red-Red + white dot	Yellow	Kp	standard
	006-1187-20	0603-16-2001	-	-	S	-				
20	006-1188-20	0641-15-2001	-	-	P	-	Red-Red + white dot	Black	Kn	standard
	006-1189-20	0603-15-2001	-	-	S	-				
20	025-0404-20	-	-	-	P	-	Purple-Red	Yellow	Kp	enlarged
	025-0405-20	-	-	-	S	-	Purple-Red	-		
20	025-0402-20	-	-	-	P	-	Purple-Red	Black	Kn	enlarged
	025-0403-20	-	-	-	S	-	Purple-Red	-		
16	006-0937-16 A	004-0139-16	-	EN3155-018M1616	P	-	Blue-Blue	-	-	standard
	006-0912-16 A	004-0140-16	-	EN3155-019F1616	S	-				
16	006-1102-16 A	004-0141-16	-	EN3155-018M1614	P	-	White-Blue	-	-	enlarged
	006-1104-16 A	004-0142-16	-	EN3155-019F1614	S	-				
16	004-0160-16 A	-	-	EN3155-018M1618	P	-	Brown-Blue	-	-	reduced
	004-0159-16 A	-	-	EN3155-019F1618	S	-				
16	006-1168-16 A	109026-16A	-	-	P	-	Red-Blue	-	-	reduced
	006-1169-16 A	109027-16A	-	-	S	-				
16	025-0870-16	-	-	-	P	-	White-Blue	-	-	reduced
	025-0871-16	-	-	-	S	-				
16	006-0982-16	-	-	-	P	-	Blue-Blue	Yellow	Kp	-
	097-0037-16	-	-	-	S	-				
16	006-0983-16	-	-	-	P	-	Blue-Blue	Black	Kn	-
	097-0036-16	-	-	-	S	-				
12	006-0937-12 A	004-0139-12	-	EN3155-018M1212	P	-	Yellow	-	-	standard
	006-0912-12 A	004-0140-12	-	EN3155-019F1212	S	-				
12	006-1157-12 A	109028A	-	-	P	-	Blue-Yellow	-	-	reduced
	006-1159-12 A	109029A	-	-	S	-				



# Signal and Power Contacts

983 (200 °C) Series Contacts - Tooling  
EN2997 (200 °C)

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
22-26	0.15 - 0.4	097-0298-22 (black)	057-0463-12	M22520/2-01	-	M22520/2-23	M81969/14-01 057-0286-22
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-24	0.25 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
26-30	0.055 - 0.15	006-0893-20 (red)	057-0463-12	M22520/2-01	057-0464-32	M22520/2-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
16-20	0.6 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
14-18	1 - 2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
18-24	0.25 - 1	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
20-24	0.25 - 0.6	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
26-30	0.055 - 0.15	006-0893-16 (blue)	057-0463-12	M22520/2-01	057-0464-32	M22520/2-02	M15570-16 006-0902-16
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-20	0.60 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
12-16	1.2 - 3	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12
16-20	0.6 - 1.2	006-0892-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12



## Signal and Power Contacts

983 (200 °C) Series Contacts  
EN2997 (200 °C)

### Power K6

Kit contact (contacts + sleeve)			Decomposition of the kit		Color Bands
Commercial Part No.	Type	Wire size AWG	Contact Part No.	Sleeve	
182-0672-06 A	P	6	182-0657-06 A	182-0601-06 ABS0992B03	Green-Green
182-0704-06	S		182-0700-06		
182-0672-08 A	P	8	182-0661-06 A	182-0601-08 ABS0992B01	Green-Red
182-0704-08	S		182-0701-06		
182-0672-10 A	P	10	182-0664-06 A	182-0601-10 ABS0992B02	Green-Brown
182-0704-10	S		182-0702-06		



## Signal and Power Contacts

983 (200 °C) Series Contacts - Tooling  
 EN2997 (200 °C)

Tools			Extraction tool	Sealing plug K6
Crimp Tool	Die assembly	Positioner		
M22520/23-01	M22520/23-03	WA23-196L 182-0659-06	025-0711-06	182-8004-08 A
M22520/23-01	M22520/23-02	WA23-196L 182-0659-06	025-0711-06	182-8004-08 A
AWG 10: M22520/23-01 AWG 12: M300BT	AWG 10: WA23-265 DA AWG 12: included in M300BT	AWG 10: WA23-296L / 182-0659-06 AWG 12: TP1498 / 057-0860-06	025-0711-06	182-8004-08 A



## Signal and Power Contacts

983 (260 °C) Series Contacts  
EN2997 (260 °C) / ESC10

Active area / Mating Size	Part No.	Former Syst. Part No.	MIL Ref.	EN Ref.	Type	Color Bands		Marking yellow or black	Contact Material	Barrel
						AS39029	EN3155			
20	097-0015-20	45045A	-	EN3155-004M2020	P	-	Red-Red	-	-	standard
	097-0016-20	45109A	-	EN3155-005F2020	S	White dot				
20	097-0047-20	47815 A	-	-	P	-	Green-Red	-	-	reduced
	097-0053-20	47816 A	-	-	S	White dot				
20	006-1186-20	0641-14-2001	-	-	P	-	Red-Red	Yellow	Kp	standard
	006-1187-20	0603-16-2001	-	-	S	White dot				
20	006-1188-20	0641-15-2001	-	-	P	-	Red-Red	Black	Kn	standard
	006-1189-20	0603-15-2001	-	-	S	White dot				
20	025-0402-20	-	-	-	P	-	Purple-Red	Black	Kn	enlarged
	025-0403-20	-	-	-	S					
20	025-0404-20	-	-	-	P	-	Purple-Red	Yellow	Kp	enlarged
	025-0405-20	-	-	-	S					
16	097-0014-16	-	-	EN3155-004M1616	P	-	Blue-Blue	-	-	standard
	097-0013-16	-	-	EN3155-005F1616	S	White dot				
16	097-0177-16	-	-	EN3155-004M1614	P	-	Blue-Blue	-	-	enlarged
	097-0178-16	-	-	EN3155-005F1614	S	White dot				
16	006-0982-16	-	-	-	P	-	Blue-Blue	Yellow	Kp	standard
	097-0037-16	-	-	-	S			-		
16	006-0983-16	097-0173-16	-	-	P	-	Blue-Blue	Black	Kn	standard
	097-0036-16	097-0175-16	-	-	S			-		
12	097-0165-12	-	-	EN3155-004M1212	P	-	Yellow	-	-	standard
	097-0166-12	-	-	EN3155-005F1212	S	White dot				

For Power K6, please refer to "Power K6" section on page 12



## Signal and Power Contacts

983 (260 °C) Series Contacts - Tooling  
 EN2997 (260 °C) / ESC10

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
20-24	0.25 - 0.60	097-0140-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
22-26	0.15 - 0.4	097-0140-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
20-24	0.25 - 0.60	097-0140-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
20-24	0.25 - 0.60	097-0140-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	097-0140-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	097-0140-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
16-20	0.60 - 1.2	097-0139-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
14-18	1 - 2	097-0139-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-20	0.60 - 1.2	097-0139-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-20	0.60 - 1.2	097-0139-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
12-14	2 - 3	097-0138-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12



# Signal and Power Contacts

## 991/992 Series Contacts

Active area / Mating Size	Part No.	Former Syst. Part No.	MIL Ref.	EN Ref.	Type	Color Bands		Marking yellow or black	Contact Material	Barrel
						AS39029	EN3155			
16	097-0006-16	60530A	-	-	P	Red-Brown-Red		-	-	standard
	097-0010-16	60531A			S	Red-Brown-Purple	-			
	097-0004-16	60534A			S	Red-Brown-Grey				
16	097-0007-16	60536A	-	-	P			-	-	standard
	097-0011-16	65906A			S	-	Blue			
	097-0005-16	65908A			S					
16	097-0034-16	65184A	-	-	P			-	-	reduced
	097-0033-16	65185A			S	-	Red-Blue			
	097-0032-16	65186A			S					
16	097-0091-16	66124A	-	-	P			-	9A	reduced
	097-0093-16	66125A			S	-	Red-Blue	-		
	097-0096-16	66127A			S		Black			
16	097-0092-16	66129A	-	-	P			-	9C	reduced
	097-0097-16	66130A			S	-	Red-Blue	Yellow		
	097-0095-16	66132A			S					
16	097-0027-16	61989A	-	-	P			-	9A	standard
	097-0023-16	61990A			S	-	Blue			
	097-0025-16	61992A			S					
16	097-0028-16	61994A	-	-	P			-	9C	standard
	097-0024-16	61995A			S	-	Blue			
	097-0026-16	61997A			S					
12	097-0060-12	60549A	-	-	P	Red-Brown-Orange		-	-	standard
	097-0061-12	60550A			S	Red-Brown-White				
8	097-0184-08	60363	-	-	P	Red-Brown-Yellow		-	-	standard
	097-0187-08	60364			S	Red-Red-Black				
4	097-0062-04	60615	-	-	P	Red-Brown-Green		-	-	standard
	097-0063-04	60616			S	Red-Red-Brown				
0	097-0064-00	60619	-	-	P	Red-Brown-Blue		-	-	standard
	097-0065-00	60620			S	Red-Red-Red				





# Signal and Power Contacts

## 991/992 Series Contacts - Tooling

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
16-20	0.60 - 1.2	-	057-0461-11	M2250/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-20	0.60 - 1.2	-	057-0461-11	M2250/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
20-24	0.25 - 0.60	-	057-0461-11	M2250/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
20-24	0.25 - 0.60	-	057-0461-11	M2250/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
20-24	0.25 - 0.60	-	057-0461-11	M2250/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-20	0.6 - 1.2	-	057-0461-11	M2250/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
16-20	0.60 - 1.2	-	057-0461-11	M2250/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
12-14	2 - 3	-	057-0461-11	M2250/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12
8-10	5.30 - 8.98	-	-	M22520/23-01	-	M22520/23-02 M22520/23-09	-/M81969/14-06
4-6	14 - 22	-	-	M22520/23-01	-	M22520/23-11 M22520/23-04	-/M81969/14-07
0-2	34 - 53	-	-	M22520/23-01	-	M22520/23-05 M22520/23-13	-/M81969/14-08



# Signal and Power Contacts

## DBAS / DBAD Series Contacts

Active area / Mating Size	Part No.	Former Syst. Part No.	Type	Color Bands	Marking yellow or black	Contact Material	Barrel	Wire Range	
								AWG	mm <sup>2</sup>
22	028-0108-22	-	P	Green	-	-	standard	22-26	0.15 - 0.4
	028-0113-22	-	S						
22	030-0076-22	-	P	White-Green specific band: white	-	-	reduced	22-30	0.055 - 0.4
	030-0044-22	-	S						
22	028-0131-22	-	P	Green-Green	Yellow	Kp	standard	22-26	0.15 - 0.4
	028-0139-22	-	S						
22	028-0132-22	-	P	Green-Green	Black	Kn	standard	22-26	0.15 - 0.4
	028-0140-22	-	S						
22	703-0162-22	-	P	*-Green	Yellow	-	reduced	26-30	0.055 - 0.15
	703-0163-22	-	S						
22	703-0164-22	-	P	*-Green	Black	-	reduced	26-30	0.055 - 0.15
	703-0165-22	-	S						
20	006-0937-20	0641-10-2059B	P	Red	-	-	standard	20-24	0.25 - 0.60
	006-0912-20	0603-34-2059B	S						
20	006-0044-20	DF 06-044-20B	P	Brown-Red	-	-	enlarged	18-24	0.25 - 1
	006-0055-20	DF 06-055-20B	S						
20	006-0972-20	0641-24-2059B	P	Black-Red	-	-	enlarged	26-30	0.055 - 0.15
	006-0973-20	0603-21-2059B	S						
20	006-1186-20	0641-14-2001	P	Red-Red White dot	Yellow	Kp	standard	20-24	0.25 - 0.60
	006-1187-20	0603-16-2001	S						
20	006-1188-20	0641-15-2001	P	Red-Red White dot	Black	Kn	standard	20-24	0.25 - 0.60
	006-1189-20	0603-15-2001	S						
20	006-1060-20	-	P	-	-	Co	standard	20-24	0.25 - 0.60
	006-1062-20	-	S						
20	025-0404-20	-	P	Purple-Red	Yellow	Kp	enlarged	18-22	0.4 - 1
	025-0405-20	-	S						
20	025-0402-20	-	P	Purple-Red	Black	Kn	enlarged	18-22	0.4 - 1
	025-0403-20	-	S						
20	025-0406-20	-	P	Purple-Red	-	Co	enlarged	18-22	0.4 - 1
	025-0407-20	-	S						
16	006-0937-16	0641-12-1659B	P	Blue	-	-	standard	16-20	0.60 - 1.2
	006-0912-16	0603-33-1659B	S						
16	006-1102-16	-	P	White-Blue specific band: white	-	-	enlarged	14-18	1 - 2
	006-1104-16	-	S						
16	004-0160-16	-	P	Brown-Blue	-	-	reduced	18-24	0.25 - 1
	004-0159-16	-	S						
16	006-1168-16	-	P	Red-Blue specific band: white	-	-	reduced	20-24	0.25 - 1
	006-1169-16	-	S						
16	025-0870-16	-	P	White-Blue	-	-	reduced	26-30	0.055 - 0.15
	025-0871-16	-	S						
12	006-0937-12	0641-32-1259B	P	Yellow	-	-	standard	12-14	2 - 3
	006-0912-12	0603-32-1259B	S						
12	006-1157-12	-	P	White-Yellow	-	-	reduced	16-20	0.60 - 1.2
	006-1159-12	-	S						
8	005-0893-08	101333-59	P	-	-	-	standard	8-10	5 - 8.98
	005-0896-08	101334-59	S						
8 (87)	005-0257-08	-	P	Brown-Red	-	-	reduced	10	5
	005-0258-08	-	S						
8 (88)	006-0041-08	-	P	Red	-	-	standard	8	8.98
	006-0040-08	-	S						

\* No first band color



# Signal and Power Contacts

## DBAS / DBAD Series Contacts - Tooling

Sealing plug		Crimp Tool		Positioner		Insertion/Extraction Tool
Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.		
028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22	
028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22	
028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22	
028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22	
028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22	
028-0102-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22	
006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20	
006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20	
006-0893-20 (red)	057-0463-12	M22520/2-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20	
006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20	
006-0893-20 (red)	057-0461-11	M22420/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20	
006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20	
006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20	
006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20	
006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20	
006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16	
006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16	
006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16	
006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16	
006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16	
006-0893-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12	
006-0893-12 (yellow)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-12 006-0902-12	
006-0893-08 (green)		To be soldered			M15570-25 006-0902-08	
006-0893-08 (green)	057-0486-15	M22520/5-01	057-0065-00	-	M15570-25 006-0902-08	
006-0893-08 (green)	057-0486-15	M22520/5-01	057-0065-00	-	M15570-25 006-0902-08	



# Signal and Power Contacts

## DFA/910 Series Contacts

Active area / Mating Size	Part No.	Former Syst. Part No.	Type	Color Bands	Marking yellow or black	Contact Material	Barrel
20	910 KP20-0	008-0001-20	P	Purple-Red	-	-	enlarged
	910 KS20-0	008-0011-20	S				
20	910 KP20 R	-	P	Grey-Red	-	-	reduced
	910 KS20 R	-	S				
20	008-0161-20	DF 08-161-20-0059B	P	White-Red	-	-	reduced
	008-0162-20	DF 08-162-20-0059B	S				
20	008-0100-20	DF 08-100-01	P	Red	Black	Kn	enlarged
	008-0101-20	DF 08-A-101-01	S		White		
20	008-0248-20	DF 08-100-02	P	Red-Red	Yellow	Kp	enlarged
	008-0208-20	DF 08-A-101-02	S				
16	910 KP16-0	DF 08-001-16	P	Blue	-	-	standard
	910 KS16-0	DF 08-A-011-16	S				
16	910 KP16 A	008-0265-16	P	Orange-Blue	-	-	enlarged
	910 KS16 A	008-0266-16	S				
16	-	-	-	-	-	-	-
	134-0068-16	-	S	Purple-Blue	-	-	reduced
16	-	-	-	-	-	-	-
	008-0253-16	P 2161	S	Red-Blue specific band: white	-	-	reduced



# Signal and Power Contacts

## DFA/910 Series Contacts - Tooling

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
18-22	0.4 - 1	910 K0-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
24-28	0.10 - 0.25	910 K0-20 (red)	057-0463-12	M22520/2-01	057-0464-32	M22520/2-02	M15570-20 006-0902-20
26-30	0.055 - 0.15	910 K0-20 (red)	057-0463-12	M22520/2-01	057-0464-32	M22520/2-02	M15570-20 006-0902-20
18-24	0.25 - 1	910 K0-20 (red)			Please consult us		M15570-20 006-0902-20
18-24	0.25 - 1	910 K0-20 (red)			Please consult us		M15570-20 006-0902-20
16-20	0.6 - 1.2	910 K0-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
14-18	1 - 2	910 K0-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
18-22	0.4 - 1	910 K0-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16
20-24	0.25 - 0.6	910 K0 -16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16



## Signal and Power Contacts

951/DVG Series Contacts  
VG 95328

Active area / Mating Size	Part No.	Former Syst. Part No.	Type	Color Bands	Marking yellow or black	Contact Material	Barrel
20	014-1025-20	4102-19-1156	P	-	-	-	standard barrel soldered or crimped for arrangements 8-2/8-3/8-4
	014-1026-20	4102-18-1156	S				
20	014-1015-20	0004-058-000	P	-	-	-	enlarged with cup
	014-1018-20	0007-008-000B	S				
20	014-1014-20	0004-135-000B	P	-	-	-	enlarged without cup
-	038-0015-20	0007-044-000B	S				
20	014-0091-20	DF 14-091-20	P	Red-Red	-	-	long barrel without cup
	014-0092-20	DF 14-092-20	S				
20	143-0003-20	-	P	-	-	-	standard with cup
	143-0004-20	-	S				
16	014-1014-16	0004-065-000	P	-	-	-	enlarged
	014-1016-16	0007-013-000	S				
16	143-0003-16	-	P	-	-	-	standard
	143-0004-16	-	S				
8	014-1092-08	-	P	-	-	-	standard
	014-1094-08	-	S				



951/DVG Series Contacts - Tooling  
VG 95328

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
20-24	0.25 - 0.6	014-1042-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	057-0125-00/057-0127-00
			057-0463-12	M22520/2-01	057-0577-32	K2	
18-24	0.22 - 1	014-1042-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	057-0484-60/057-0476-60
18-24	0.22 - 1	014-1042-20 (red)	057-0463-12	M22520/2-01	057-0577-32	K2	057-0484-60/057-0476-60
18-24	0.22 - 1	014-1042-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	057-0484-60/057-0476-60
20-24	0.22 - 0.6	014-1042-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	057-0484-60/057-0476-60
14-18	1 - 1.91	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	057-0472-60/057-0475-60
16-18	0.93 - 1.34	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	057-0472-60/057-0475-60
8	8.98	014-1010-01 (green)	057-0540-10	M300BT	-	TP1669	-/057-0480-60



# Signal and Power Contacts

## DS/DCI/901/941 Series Contacts

Active area / Mating Size	Part No.	Former Syst. Part No.	Type	Color Bands		Marking yellow or black	Contact Material	Barrel
				AS39029	EN3155			
20	047-0894-20	0005-045-000B	P	-	-	-	-	standard
	047-0893-20	0007-049-000B	S	-	-	-	-	
20	047-1022-20	0005-056-000	P	-	-	-	-	reduced
	047-1023-20	0007-071-000B	S	-	-	-	-	
20	047-1024-20	0005-005-000	P	-	-	-	-	enlarged
	047-1025-20	0007-007-000B	S	-	-	-	-	
20	047-1006-20	4702-11-3901	P	-	-	-	Cu	-
	047-1059-20	4702-10-3901	S	-	-	-	-	
20	047-1007-20	4702-11-0102	P	-	-	-	Co	-
	047-1013-20	4702-10-0102	S	-	-	-	-	
20	047-1008-20	4702-11-0103	P	-	-	-	Coi (constantan fer)	-
	047-1014-20	4702-10-0103	S	-	-	-		
20	047-1009-20	4702-11-3904	P	-	-	-	Fe	-
	047-1015-20	4702-10-3904	S	-	-	-	-	
20	047-1010-20	4702-11-0105	P	-	-	-	Kp	-
	047-1016-20	4702-10-0105	S	-	-	-	-	
20	047-1011-20	4702-11-0106	P	-	-	-	Kn	-
	047-1017-20	4702-10-0106	S	-	-	-	-	
16	047-0894-16	800-16/32-1	P	-	-	-	-	standard
	047-0893-16	200-16/30-3	S	-	-	-	-	
16	047-1022-16	800-16/32-3	P	-	-	-	-	reduced
	047-1023-16	200-16/30-4	S	-	-	-	-	
16	047-1024-16	0005-008-000	P	-	-	-	-	enlarged
	047-1025-16	0007-014-000	S	-	-	-	-	
16	047-1348-16	-	P	-	-	-	-	enlarged
	047-1349-16	-	S	-	-	-	-	
12	047-0894-12	800-12/32-1	P	-	-	-	-	standard
	047-0893-12	200-12/30-3	S	-	-	-	-	
12	047-1022-12	800-12/32-3	P	-	-	-	-	reduced
	047-1023-12	200-12/30-4	S	-	-	-	-	
12	047-1024-12	800-12/32-7	P	-	-	-	-	reduced
	047-1025-12	200-12/30-7	S	-	-	-	-	
12	047-1401-12	-	S	-	-	-	-	enlarged
8	047-0894-08	0005-048-000	P	-	-	-	-	standard
	047-0893-08	0007-059-000	S	-	-	-	-	
8 (87)	047-1329-08	-	P	-	-	-	-	reduced
	047-1330-08	-	S	-	-	-	-	
8 (88)	047-1325-08	-	P	-	-	-	-	standard
	047-1326-08	-	S	-	-	-	-	

Size 0 and 4 contacts, please consult us





# Signal and Power Contacts

## DS/DCI/901/941 Series Contacts Tooling

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
18-24	0.22 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-20/M15515-20 057-0473-60/057-0479-60
26-30	0.055 - 0.15	006-0893-20 (red)	057-0463-12	M22520/2-01	-	K1613 K1614	M15513-20/M15515-20 057-0473-60/057-0479-60
16-18	0.93 - 1.34	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-16/M15515-20 057-0472-60/057-0479-60
18-24	0.22 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-20/M15515-20 057-0473-60/057-0479-60
18-24	0.22 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-20/M15515-20 057-0473-60/057-0479-60
18-24	0.22 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-20/M15515-20 057-0473-60/057-0479-60
18-24	0.22 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-20/M15515-20 057-0473-60/057-0479-60
18-24	0.22 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-20/M15515-20 057-0473-60/057-0479-60
18-24	0.22 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-20/M15515-20 057-0473-60/057-0479-60
16-18	0.93 - 1.34	092-1057-16 (blue)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-16/M15515-16 057-0472-60/057-0478-60
18-24	0.22 - 1	092-1057-16 (blue)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-16/M15515-16 057-0472-60/057-0478-60
12-14	1.91 - 3.18	092-1057-16 (blue)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-16/M15515-16 057-0472-60/057-0478-60
14-16	1.34 - 1.91	092-1057-16 (blue)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-16/M15515-16 057-0472-60/057-0478-60
12-14	1.91 - 3.18	092-1056-12 (yellow)	057-0461-11	M22520/1-01	057-0503-21	TH18	M15513-12/M15515-12 057-0471-60/057-0477-60
18-24	0.22 - 1	092-1056-12 (yellow)	057-0540-10	M300BT	057-0503-21	TH18	M15513-12/M15515-12 057-0471-60/057-0477-60
14-18	0.22 - 1	092-1056-12 (yellow)	057-0540-10	M300BT	057-0503-21	TH18	M15513-16/M15515-12 057-0472-60/057-0477-60
10-12	3.18 - 5.30	092-1056-12 (yellow)	057-0540-10	M300BT	057-0503-21	TH18	M15513-12/M15515-12 057-0471-60/057-0477-60
8	8.98	047-1052-08 (green)	-	-	-	-	M15513-25/M15515-25 057-0474-60/057-0480-60
10	5	047-1052-08 (green)	057-0585-11	-	-	-	M15513-25/M15515-25 057-0474-60/057-0480-60
8	8.98	047-1052-08 (green)	057-0585-11	-	-	-	M15513-25/M15515-25 057-0474-60/057-0480-60



## Signal and Power Contacts

### UR/RE/RM/RSM/RTK Series Contacts

Active area / Mating Size	Part No.	Former Syst. Part No.	Type	Color Bands	Marking yellow or black	Contact Material	Barrel
22	029-0100-22	2841-5-9000C	P	Green	-	-	standard
	029-0101-22	2803-4-0000C	S				
22	029-0102-22	DF 28-046-22C	P	White-Green	-	-	reduced
	029-0103-22	DF 28-A-047-22C	S				
22	028-0108-22	2841-5-9000D	P	Green	-	-	standard
	028-0113-22	2803-4-0000E	S				
22	030-0076-22	DF 28-046-22D	P	Green-White	-	-	reduced
	030-0044-22	DF 28-047-22E	S				
22	028-0131-22	-	P	Green	Yellow	Kp	standard
	028-0139-22	-	S				
22	028-0132-22	-	P	Green-Green	Black	Kn	standard
	028-0140-22	-	S				
22	703-0162-22	-	P	*-Green	Yellow	-	reduced
	703-0163-22	-	S				
22	703-0164-22	-	P	*-Green	Black	-	reduced
	703-0165-22	-	S				
20	028-0108-20	103-300-31	P	Red	-	-	standard
	028-0113-20	103-304	S				
16	028-0176-16	2841-7-9016	P	Blue	-	-	standard
	028-0174-16	2803-5-0016	S				

\* No first band color

### 904/944/DRA/DPM Series Contacts

Active area / Mating Size	Part No.	Former Syst. Part No.	Type	Color Bands	Marking yellow or black	Contact Material	Barrel
16	023-0032-16	DF 23-A-032-16	P	-	-	-	standard
	023-0025-16	DF 23-A-025-16	S				
16	023-0040-16	DF 23-A-040-16	P	-	-	-	reduced
	023-0139-16	-	S				
16	023-0151-16	-	P	-	-	-	reduced
	023-0153-16	-	S				



## Signal and Power Contacts

### UR/RE/RM/RSM/RTK Series Contacts - Tooling

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
22-26	0.15 - 0.4	029-0037-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
26-30	0.055 - 0.15	029-0037-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
22-26	0.15 - 0.4	029-0037-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
26-30	0.055 - 0.15	029-0037-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
22-26	0.15 - 0.4	029-0037-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
22-26	0.15 - 0.34	029-0037-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
26-30	0.055 - 0.15	029-0037-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
26-30	0.055 - 0.15	029-0037-22 (yellow)	057-0463-12	M22520/2-01	057-0470-32	K127-2	M15570-22-1 028-0114-22
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
16-18	1 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16

### 904/944/DRA/DPM Series Contacts - Tooling

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
16-18	1 - 1.2	-	057-0461-11	M22520/1-01	DF 57-023-00	-	Manual/DRK113-20
20-24	0.25 - 0.6	-	057-0461-11	M22520/1-01	DF 57-023-00	-	Manual/DRK113-20
26-30	0.055 - 0.15	-	057-0461-11	M22520/1-01	DF 57-023-00	-	Manual/DRK113-20



# Signal and Power Contacts

## 902/942 Series Contacts

Active area / Mating Size	Part No.	Former Syst. Part No.	Type	Color Bands	Marking yellow or black	Contact Material	Barrel
20	006-0937-20 A	004-0139-20	P	Red	-	-	standard
	006-0912-20 A	004-0140-20	S				
20	006-0044-20 A	004-0141-20	P	Brown-Red	-	-	enlarged
	006-0055-20 A	004-0142-20	S				
20	006-0972-20 A	0641-24-2059C	P	Black-Red	-	-	reduced
	006-0973-20 A	0603-21-2059C	S				
20	006-1186-20	0641-14-2001	P	Red-Red + white dot	Yellow	Kp	standard
	006-1187-20	0603-16-2001	S				
20	006-1188-20	0641-15-2001	P	Red-Red + white dot	Black	Kn	standard
	006-1189-20	0603-15-2001	S				
20	006-1060-20	-	P	-	-	Co	enlarged
	006-1062-20	-	S				
20	025-0404-20	-	P	Purple-Red	Yellow	Kp	enlarged
	025-0405-20	-	S	Purple-Red	-		
20	025-0402-20	-	P	Purple-Red	Black	Kn	enlarged
	025-0403-20	-	S	Purple-Red	-		
20	025-0406-20	-	P	Purple-Red	-	Co	enlarged
	025-0407-20	-	S				
16	006-0937-16 A	004-0139-16	P	Blue-Blue	-	-	standard
	006-0912-16 A	004-0140-16	S				



# Signal and Power Contacts

## 902/942 Series Contacts - Tooling

Wire Range		Sealing plug	Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Ref.	Part No.	MIL Part No.	Part No.	MIL Part No.	
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-24	0.25 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
26-30	0.055 - 0.15	006-0893-20 (red)	057-0463-12	M22520/2-01	057-0464-32	M22520/2-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
20-24	0.25 - 0.6	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
18-22	0.4 - 1	006-0893-20 (red)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-20 006-0902-20
16-20	0.6 - 1.2	006-0893-16 (blue)	057-0461-11	M22520/1-01	057-0462-21	M22520/1-02	M15570-16 006-0902-16



# Databus Contacts

## DMC-M Series Contacts and Tooling / EN4165

### Coax size 8

Active area / Mating Size	Part No.	Type	Color Bands	
			AS39029	EN3155
Microcoax	724-0004-16	P	Yellow-Red-Yellow	-
	724-0005-16	S	Yellow-Orange-Red	-
08 (Coax)	182-0125-08	P	-	-
	182-0126-08	S	-	-
08	182-0048-08	P	-	-
	182-0044-08	S	-	-

### Quadrax size 8 (crimp)

Part No.	Type	Contact tooling		Sleeve tooling	
		Crimp Tool	Positioner	Crimp Tool	Die set
187-0204-08 A	P	M22520/2-01	K709	M22520/5-01	M22520/5-45B
187-0205-08 A	S				

Both Part No. are also available without sealing sleeve (Part No. are 187-0204-08 and 187-0205-08).  
Wiring procedures NC187-0204-08 and NC187-0205-08.

### Quadrax size 8 (PCB)

Part No.	Type	Mounting type
187-0206-08	P	Back mounting

### Triax size 8

Databus Contacts (twisted Pair) As Per AS39029						Tooling for Databus Contacts			
Cable Type	Part No.	Type	Color Bands	Conductor Size Max.	Braid OD Max.	Sleeve Type	Center Conductor	Ferrule	Insertion/Extraction Tool
Single braid	182-0347-01	P	Brown-Red	2 x 0.34 mm <sup>2</sup>	3.48	Thermoplastic and silicone	TDB-CT-08	TDB-CT-HEX Mark D	114-008 or M81969/14-06
	182-0346-01	S							
Double braid	182-0347-02	P	Red-Red	2 x 0.34 mm <sup>2</sup>	3.91	Thermoplastic and silicone	TDB-CT-08	TDB-CT-HEX Mark D	114-008 or M81969/14-06
	182-0346-02	S							
Single Braid	182-0034-03	P	Brown-Red	2 x 0.34 mm <sup>2</sup>	3.48	Thermoplastic and Silicone	TDB-CY-08	TDB-CT-HEX Mark C	114-008 or M81969/14-06
	182-0035-03	S							
Double Braid	182-0034-04	P	Red-Red	2 x 0.34 mm <sup>2</sup>	3.91	Thermoplastic and Silicone	TDB-CT-08	TDB-CT-08HEX Mark D	114-008 or M81969/14-06
	182-0035-04	S							

Wiring procedures NC182-021 and NC187-013.



## Databus Contacts

Wire Range		Crimp Tool		Positioner		Insertion/Extraction Tool
AWG	mm <sup>2</sup>	Part No.	MIL Part No.	Part No.	MIL Part No.	
KX 22	0.057 - 0.158	057-0463-12 (Center Contact) 057-0509-14 (Outer Contact)	M22520/2-01 (Center Contact)	057-0539-32 (Center Contact) 057-0511-34 (Outer Contact)	-	M15570-16 006-0902-16
ALPEN A 26 DT	-	-	-	-	-	114-008 or M81969/14-06
SMA Interface	-	-	-	-	-	114-008 or M81969/14-06



## Databus Contacts

DG/DTS Contacts and Tooling / MIL-DTL-38999/EN3645

### Coax size 8

Part No.	Former Part No.	Type	Cable	Crimping of the inner contact		Crimping of the sleeve		Insertion/extraction tool
				Crimp Tool	Positioner	Crimp Tool	Positioner	
724-0004-16	-	P	RG 174 /	M22520/2-01	M22520/2-35	M22520/4-01	M22520/4-02	M15570-16
724-0005-16	-	S	316 / 179	-	-	-	-	006-0902-16

### Triax size 8

Databus Contacts (twisted Pair) As Per AS39029						Tooling for Databus Contacts			
Cable Type	Part No.	Type	Color Bands	Conductor Size Max.	Braid OD Max.	Sleeve Type	Center Conductor	Ferrule	Insertion/Extraction Tool
Single braid	182-0347-01	P	Brown-Red	2 x 0.34 mm <sup>2</sup>	3.48	Thermoplastic and silicone	TDB-CT-08	TDB-CT-HEX Mark D	114-008 or M81969/14-06
	182-0346-01	S							
Double braid	182-0347-02	P	Red-Red	2 x 0.34 mm <sup>2</sup>	3.91	Thermoplastic and silicone	TDB-CT-08	TDB-CT-HEX Mark D	114-008 or M81969/14-06
	182-0346-02	S							
Single Braid	182-0034-03	P	Brown-Red	2 x 0.34 mm <sup>2</sup>	3.48	Thermoplastic and Silicone	TDB-CY-08	TDB-CT-HEX Mark C	114-008 or M81969/14-06
	182-0035-03	S							
Double Braid	182-0034-04	P	Red-Red	2 x 0.34 mm <sup>2</sup>	3.91	Thermoplastic and Silicone	TDB-CT-08	TDB-CT-08HEX Mark D	114-008 or M81969/14-06
	182-0035-04	S							

Wiring procedures NC182-021 and NC187-013.

### Quadrax size 8 (crimp)

Part No.	EN Ref	Type	Contact tooling		Sleeve tooling	
			Crimp Tool	Positioner	Crimp Tool	Die set
187-0204-08	EN3155-074M08	P	M22520/2-01	K709	M22520/5-01	M22520/5-45B
187-0205-08	EN3155-075F08	S				

Wiring procedures NC187-0204-08 and NC187-0205-08.

### Quadrax size 8 (PCB)

Part No.	Type	Mounting type
187-0206-08	P	Back mounting





# Databus Contacts

## FAST Series Contacts and Tooling / EN3545

### Quadrax

Contacts		Tooling				
Kit Part No. (Contact + Sleeve)	Type	Contact Crimp Tool	Contact Positioner	Sleeve Crimp Tool	Die set	Extraction Tool
182-0611-08	P	M22520/2-01	K709	M22520/5-01	M22520/5-45B	025-0711-06
182-0612-08	S					

Wiring procedures NC187-0108-08 and NC187-0109-08.

### Quadrax size 8 (PCB)

Part No.	Type	Mounting type
182-0095-01	P	Front mounting with grounding tail
182-0095-06		
182-0095-21		
182-0095-26		
187-0178-08	P	Back mounting with grounding tail
182-0121-01	P	Front mounting without grounding tail
182-0121-06		
182-0121-21		
182-0121-26		
187-0136-08	S	Back mounting

### Twinax size 8 (crimp)

Part No.	Type	Contact tooling		Sleeve tooling	
		Crimp Tool	Positioner	Crimp Tool	Die set
187-0157-08	P	M22520/2-01	K709	M22520/5-01	M22520/5-45B
187-0158-08	S				

### Twinax size 8 (PCB)

Part No.	Type	Mounting type
187-0264-01	P	Front mounting
187-0264-06		
187-0265-01	S	Back mounting
187-0265-06		



# Databus Contacts

FDBA/AFD/DFE Series Contacts and Tooling / EN3646 /MIL-DTL-26482

## Quadrax size 8

Part No.	EN	Type	Tools	
			For the inner contacts	For the body
187-0108-08	EN3155-072M08	P	M22520/2-01 + K709	M22520/5-01 + M22520/5-45B
187-0109-08	EN3155-073F08	S		

Wiring procedures NC187-0108-08 and NC187-0109-08.

## Coax size 16

Crimping							
Part No.	Type	Cable	Contact	Crimp Tool	Positioner	Selector position	Insertion/extraction tool
025-0847-08	P	RG 196 A/U and RG	Inner	M22520/2-01	L22520-C3	5	M15570
025-0848-08	S	178 B/U	Outer	M22520/1-01	M22520/1-02	7	

## Quadrax size 8 (PCB)

Part No.	Type	Mounting type
182-0121-01	P	Front mounting without grounding tail
182-0121-06		
182-0121-21		
182-0121-26		
187-0136-08	S	Back mounting

## Twinax size 8 (PCB)

Part No.	Type	Mounting type
187-0264-01	P	Front mounting
187-0264-06		
187-0265-01	S	Back mounting
187-0265-06		



## Databus Contacts

983 (200 °C) Series Contacts and Tooling / EN2997 (200 °C) / ESC10

**Quadrax size 8** For arrangements 18-02, 20-04 and 28-06

Kit Part No. (Contact + Sleeve)	Type	Tools		
		For size 24 contacts	For contact body	Extraction tool
182-0611-08	P	M22520/2-01 + K709	M22520/5-01	025-0711-06
182-0612-08	S		M22520/5-45B	

Wiring procedures NC187-0108-08 and NC187-0109-08.

### Quadrax size 8 (PCB)

Part No.	Type	Mounting type
187-0281-08	P	Back mounting



# Databus Contacts

## DBAS Series Contacts

### Micro coax size 16



Female Contact



Male Contact

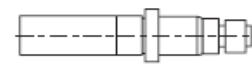
Contacts				Crimping		Tools Wired contacts insertion/extraction tools
Coax wire used	Part No.	Type	Contact	Crimp Tool	Positioner	
RG 196 A/U RG 178 B/U	025-0847-00	P	Inner Outer	057-0463-12 057-0461-11	057-0462-21	057-0517-32 006-0902-16
RG 196 A/U RG 178 B/U	025-0848-00	S	Inner Outer	057-0463-12 057-0461-11	057-0462-21	057-0517-32 006-0902-16

Wiring procedures NC 025-071.

### Micro coax size 12



Male Contact



Female Contact

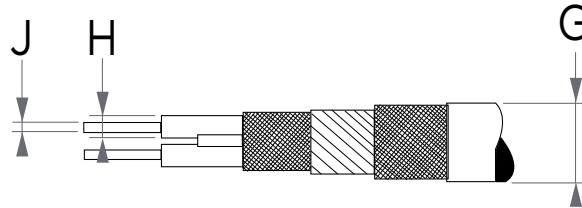
Coax wire used	Part No. P	Part No. S	Crimp Tool	Positioner	Sleeve Crimp Tool	Insertion/extraction tool
Shielded 24	006-1082-00	006-1080-00	057-0463-12	057-0524-32	057-0520-05	006-0902-12
RG 180 B RG 195 A	006-1089-00	006-1091-00	057-0463-12	057-0524-32	057-0520-05	006-0902-12
Shielded 24 RG 174 RG 188 A	006-1092-00	006-1093-00	057-0463-12	057-0524-32	057-0520-05	006-0902-12
Shielded 28-30 RG 178 B	006-1094-00	006-1095-00	057-0463-12	057-0524-32	057-0520-05	006-0902-12
RG 187 A RG 196 A	006-1097-00	006-1096-00	057-0463-12	057-0524-32	057-0520-05	006-0902-12
F 1703-66	006-1183-00	006-1184-00	057-0463-12	057-0524-32	057-0520-05	006-0902-12

Wiring procedures NC 025-041



# Databus Contacts

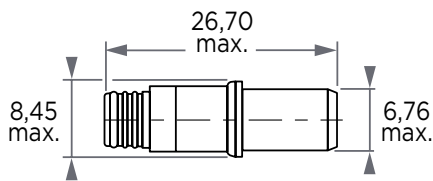
## DBAS Series Contacts



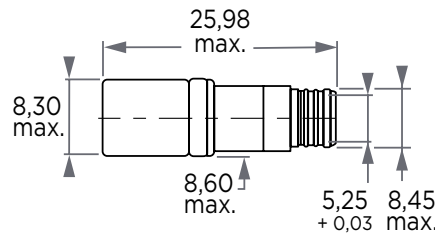
### Coax size 6 bifilar

Cables			Contacts		Sealing plug		Tools						
Core			Contact Part No.		Ref.		Crimp Tool						
Cable Part No.	Size	G max	H	J max	Index	P	S	For P and S	Color	Inner contact	Locator	Sleeve	Extraction tool
F 2709/9	22	4.80	1.68	0.80	without	025-0709-01	025-0710-01	025-0689-06	Blue	057-0463-12	057-0470-32	057-0088-00	025-0711-06
F 2709/12	20	5.35	2.03	1									
F 2709/3	24	4.05	1.37	0.60	M4	025-0925-00	025-0926-00	025-0689-06	Blue	057-0463-12	057-0470-32	057-0088-00	025-0711-06
17/176-00002		2.59	1.12										

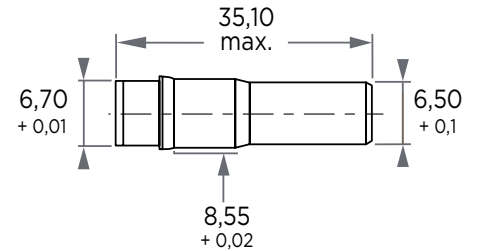
Wiring procedures NC 025-011



Male contact



Female Contact



Sealing plug

### Coax size 8

Cables			Connector Index	Contacts			Crimp Tool		Insertion & Extraction Tools		
Cable Part No.	G max	H max		J max	Part No. P	Part No. S	Intermediary contact	Positioner	Sleeve	Insertion	Extraction
RG 179/U RG 187/U	2.95	1.52	0.76	Without	005-0920-00	005-0921-00	057-0463-12	057-0513-32	057-0519-05	057-0519-05	006-0902-08
RG 195/U	3.94	2.62	0.76	1	005-0919-00	005-0914-00	057-0463-12	057-0513-32	057-0518-05	006-0902-08	057-0616-60
Specials	2.95	1.52	0.97	9	005-0913-00	005-0922-00	057-0463-12	057-0513-32	057-0519-05	006-0902-08	006-0902-08
50 PPDT	3.90	2.00	0.70	F1	005-0065-00	005-0066-00	057-0463-12	057-0513-32	057-0518-05	006-0902-08	057-0616-60
Double braid	5.50	3.04	0.97	F7	005-0983-00	005-0984-00	057-0463-12	057-0513-32	057-0520-05	006-0902-08	057-0616-60
1709/33	2.85	1.75	0.70	F8	005-1364-00	005-1365-00	057-0463-12	057-0513-32	057-0518-05	006-0902-08	057-0616-60
66856	4.20	3.00	0.97	F9	005-1445-00	005-1446-00	057-0463-12	057-0513-32	057-0518-05	006-0902-08	057-0616-60

Dimensions in mm  
Wiring procedures NC 025-011.



# Databus Contacts

## DS/DCI/901/941 Series Contacts and Tooling

### Coax size 8

Cable	Index	Part No.	Former Syst. Part No.	Type
RG 174 U RG 178 B/U RG 187 A/U RG 188 A/U RG 196 A/U	standard	047-0894-00	0106-003-000	P
		047-0893-00	0107-003-000	S
RG 180 B/U RG 195 A/U	1	047-1026-00	800/33-1	P
		047-1027-00	800/34-1	S
RG 58 C/U RG 141 A/U RG 142 B/U RG 222 U	5	047-1026-02	0106-001-000	P
		047-1027-02	0107-001-000	S
50 PPTDE	F1	047-1026-01	DF 47-A-724-08-0056	P
		047-1027-01	DF 47-A-724-08-0056	S
KX2	F5	047-1026-03	DF 47-A-863-08-0056	P
		047-1027-03	DF 47-A-864-08-0056	S
50 PPTDE KX23	F6	047-1026-04	DF 47-A-083-00	P
		047-1027-04	DF 47-A-085-00	S
-	F7	047-1026-05	DF 47-A-099-00	P
		047-1027-05	DF 47-A-100-00	S
RG 122 U	F9	047-1026-06	DF 47-A-284-00	P
		047-1027-06	DF 47-A-285-00	S
-	F10	047-1026-07	DF 47-A-287-00	P
		047-1027-07	DF 47-A-288-00	S
CT 115	F11	047-1026-08	DF 47-A-199-00	P
		047-1027-08	DF 47-A-203-00	S
Special	12	047-1026-09	-	P
		047-1027-09	-	S
Special	9	047-1026-10	-	P
		047-1027-10	-	S
KX 53 A/S, RG59, KX 6 A/S, 75 PPN A/S	T2	047-1056-00	-	P
		047-1057-00	-	S
RG179, RG187	T1	047-1056-01	-	P
		047-1057-01	-	S
RG316, RG180	T3	047-1056-02	-	P
		047-1057-02	-	S
KX 53 A/S, RG59, KX 6 A/S, 75 PPN A/S	T4	047-1056-03	-	P
		047-1057-03	-	S

Wiring procedures NC 047-011 and 047-021.



Impedance	Crimping of the contact		Sleeve Crimp Tool	Rear insertion tool	Front insertion tool
	Crimp Tool	Positioner			
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
50 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
75 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
75 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
75 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8
75 Ω	M22520/2-01	K30	M22520/5-01	M15513-25 DAK51-8	M15515-25 DRK51-8



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006-0937-12	26	008-0253-16	28	025-0406-20	14, 26, 36	047-1015-20	32
006-0937-12 A	14, 18	014-0091-20	30	025-0407-20	14, 26, 36	047-1016-20	32
006-0937-16	26	014-0092-20	30	025-0870-16	14, 18, 26, 36	047-1017-20	32
006-0937-16 A	14, 18, 36	014-1014-16	30	025-0871-16	14, 18, 26, 36	047-1022-12	32
006-0937-20	26	014-1014-20	30	028-0108-20	34	047-1022-16	32
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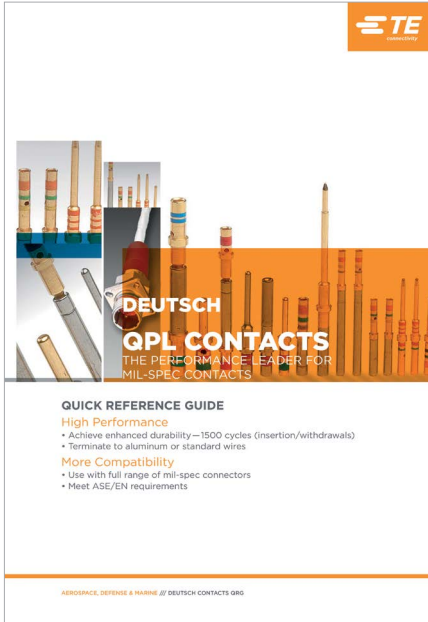
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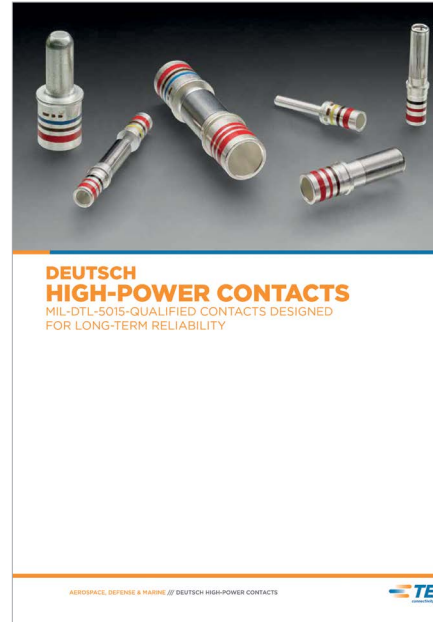


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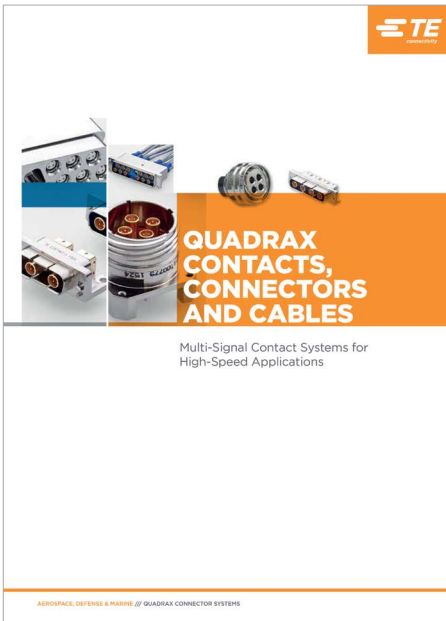
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