

Cable (Size 8) Loose Contacts — Coaxial 75 Ohm

Stamped Crimp/Crimp

Recommended Wire Trim Dimensions



Kit (Body, Ferrule, Center Contact)

Stamped Crimp/Crimp	Kit Gold over Ni	Kit 30µ in. Gold over Ni	Kit 50µ in. Gold over Ni	RG Cable Number
Plug	D130322-2	D130322-1	D130322-6	179/U
Receptacle	D130344-1	D130344	D130344-2	179/U

Loose Components for High Volume (3 Pieces — Body, Ferrule, Center Contact)

Stamped Crimp/Crimp	Body	Ferrule	Center Contact Gold over Ni 10,000 Reel	Center Contact 30µ in. Gold over Ni 10,000 Reel
Plug	249-2272-000	304-0444-000	110238-1015	110238-1012
Receptacle	249-2271-000	304-0444-000	110238-1014	110238-1013

Tooling for Stamped Crimp/Crimp



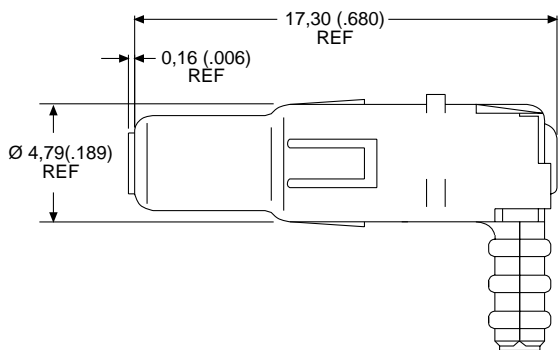
Description	Crimping Tool	Tool Number
Stamped Center Conductor	Hand Crimp, "B" Crimp	CCTP-750HM
	Semi-Automatic Crimper	ABT-607 (Leased)
Stamped Outer Conductor	Hand Tool, Hex Crimp	CCTP-DM
	Pneumatic Hex Crimp	995-2000-094

For semi-automatic tooling, see page 275.

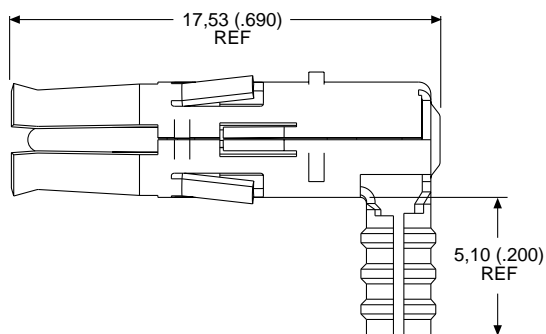
## Cable (Size 8) Loose Contacts — Coaxial 75 Ohm — 90°

90° Crimp Braid/Solder Center Contact

	Part Number Gold over Ni	Part Number 30µ in. Gold over Ni	Part Number 50µ in. Gold over Ni
Plug	D130357-1	D130357	D130357-4
Receptacle	D130356-1	D130356	D130356-3



Plug



Receptacle

Note: Ferrule not shown.

Note: Ferrule not shown.

### Tooling for 90° Crimp Braid



Description	Part Number
Hand Tool:	995-0001-761
Die Set:	995-2000-110

Cable (Size 8) Loose Contacts — Coaxial 50 Ohm — Straight

Straight Crimp Braid



Plug



Receptacle

Note: Dimensions include outer sleeve.

	Part Number Gold Over Nickel	Part Number 50µ in. Gold Over Copper	A max.	B max.	D min.	RG Cable Number	
						Old	New
Plug	DM53740	DM53740-17	18,80 (.739)	24,00 (.945)	1,00 (.040)	196/U	178B/U
Plug	DM53740-1	DM53740-15	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Plug	DM53740-35	—	18,80 (.739)	24,00 (.945)	1,70 (.067)	—	RD316
Plug	DM53740-3	DM53740-16	21,50 (.847)	26,34 (1.037)	2,79 (.110)	195/U	180B/U
Plug	DM53740-5	DM53740-18	21,50 (.847)	26,34 (1.037)	3,18 (.125)	58/U	58B/U
Receptacle	DM53742	DM53742-18	18,80 (.739)	24,00 (.945)	1,00 (.040)	196/U	178B/U
Receptacle	DM53742-1	DM53742-16	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Receptacle	DM53742-36	—	18,80 (.739)	24,00 (.945)	1,70 (.067)	—	RD316
Receptacle	DM53742-3	DM53742-17	21,50 (.847)	26,34 (1.037)	2,79 (.110)	195/U	180B/U
Receptacle	DM53742-5	DM53742-19	21,50 (.847)	26,34 (1.037)	3,18 (.125)	58/U	58B/U

For crimp tooling, see page 89.

Straight Solder Braid



Plug



Receptacle

	Part Number Gold Over Nickel	Part Number 50µ in. Gold Over Copper	A max.	B max.	D min.	RG Cable Number	
						Old	New
Plug	DM53740-5008	DM53740-5105	18,80 (.739)	24,00 (.945)	1,00 (.040)	196/U	178B/U
Plug	DM53740-5001	DM53740-5099	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Plug	DM53740-5145	—	18,80 (.739)	24,00 (.945)	1,70 (.067)	—	RD316
Plug	DM53740-5002	DM53740-5104	21,50 (.847)	26,34 (1.037)	2,79 (.110)	195/U	180B/U
Plug	DM53740-5005	DM53740-5101	21,50 (.847)	26,34 (1.037)	3,18 (.125)	58/U	58/U
Plug (Short Type)	DM53740-5000	DM53740-5100	17,00 (.670)	22,20 (.874)	1,14 (.045)	196/U	178B/U
Receptacle	DM53742-5006	DM53742-5092	18,80 (.739)	24,00 (.945)	1,00 (.040)	196/U	178B/U
Receptacle	DM53742-5001	DM53742-5089	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Receptacle	DM53742-5126	—	18,80 (.739)	24,00 (.945)	1,70 (.067)	—	RD316
Receptacle	DM53742-5002	DM53742-5091	21,50 (.847)	26,34 (1.037)	2,79 (.110)	195/U	180B/U
Receptacle	DM53742-5004	DM53742-5086	21,50 (.847)	26,34 (1.037)	3,18 (.125)	58/U	58/U
Receptacle (Short Type)	DM53742-5000	DM53742-5085	17,00 (.670)	22,20 (.874)	1,14 (.045)	196/U	178B/U

Cable (Size 8) Loose Contacts — Coaxial 50 Ohm — 90°

90° Crimp Braid



Plug



Receptacle

Note: Dimensions include outer sleeve.

	Part Number Gold Over Nickel	Part Number 50µ in. Gold Over Copper	A max.	B max.	C	D ±0,13 (.005)	RG Cable Number	
							Old	New
Plug	DM53741	DM53741-12	13,46 (.530)	18,92 (.745)	15,10 (.594)	1,14 (.045)	196/U	178B/U
Plug	DM53741-1	DM53741-11	13,46 (.530)	18,92 (.745)	15,10 (.594)	1,83 (.072)	187/U 188/U	179B/U 316B/U
Plug	DM53741-3	DM53741-10	13,46 (.530)	18,92 (.745)	16,00 (.630)	2,79 (.110)	195/U	180B/U
Plug	DM53741-4	DM53741-13	13,46 (.530)	18,92 (.745)	16,00 (.630)	3,18 (.125)	58/U	58B/U
Receptacle	DM53743-2	DM53743-18	13,46 (.530)	18,92 (.745)	15,09 (.594)	1,14 (.045)	196/U	178B/U
Receptacle	DM53743-3	DM53743-16	13,46 (.530)	18,92 (.745)	15,09 (.594)	1,83 (.072)	187/U 188/U	179B/U 316B/U
Receptacle	DM53743-5	DM53743-17	13,46 (.530)	18,92 (.745)	16,00 (.630)	2,79 (.110)	195/U	180B/U
Receptacle	DM53743-6	DM53743-19	13,46 (.530)	18,92 (.745)	16,00 (.630)	3,18 (.125)	58/U	58B/U

For crimp tooling, see page 89.

90° Solder Braid



Plug



Receptacle

	Part Number Gold Over Nickel	Part Number 50µ in. Gold Over Copper	A max.	B max.	C	D min.	RG Cable Number	
							Old	New
Plug	DM53741-5000	DM53741-5059	13,46 (.530)	18,92 (.745)	15,10 (.594)	1,00 (.040)	196/U	178B/U
Plug	DM53741-5001	DM53741-5062	13,46 (.530)	18,92 (.745)	15,10 (.594)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Plug	DM53741-5003	DM53741-5063	13,46 (.530)	18,92 (.745)	16,00 (.630)	2,79 (.110)	195/U	180B/U
Plug	DM53741-5004	DM53741-5060	13,46 (.530)	18,92 (.745)	16,00 (.630)	3,18 (.125)	58/U	58/U
Receptacle	DM53743-5000	DM53743-5073	13,46 (.530)	18,92 (.745)	15,09 (.594)	1,00 (.040)	196/U	178B/U
Receptacle	DM53743-5001	DM53743-5076	13,46 (.530)	18,92 (.745)	15,09 (.594)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Receptacle	DM53743-5003	DM53743-5077	13,46 (.530)	18,92 (.745)	16,00 (.630)	2,79 (.110)	195/U	180B/U
Receptacle	DM53743-5004	DM53743-5074	13,46 (.530)	18,92 (.745)	16,00 (.630)	3,18 (.125)	58/U	58B/U

Insertion/Extraction Instructions for Coaxial, High Power and High Voltage Contacts

Insertion Tool

No insertion tool is required. The contact is easily snapped in from the rear of the connector manually.

Insertion Instructions



Extraction Tool

CET-C6B-2

Operating Instructions



The CET-C6B-2 tool extracts all coaxial, high power and high voltage contacts (plug and receptacle).

To extract the coaxial contact, hold the tool by the body and insert the tip into the front of the contact cavity until it bottoms and closes the coaxial retaining ring. Holding the body in this position

securely enough to keep coaxial retaining ring closed, push the plunger; contact will be pushed out of the rear of the assembly.

Description	Part Number
CET-C6B-2	070064-0002

Coaxial Assembly Instructions

Straight and 90° Coaxial Assembly  
STEP 1:

Slide the outer ring over the cable jacket. Trim the cable as specified in the table of Coaxial Cable Trim Dimensions (see this page). Insert the cable dielectric and center conductor into the inside diameter of the inner sleeve. Then solder the center conductor to the coaxial center contact.

Straight Coaxial



90° Coaxial



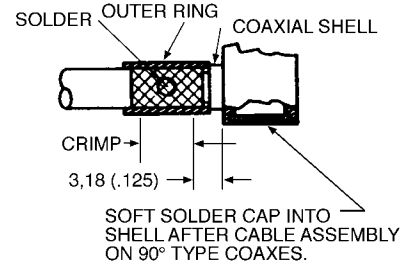
Straight and 90° Coaxial Assembly  
STEP 2:

Slide the outer ring forward until it is flush with the coaxial shell containing the braid between the outer ring and the inner sleeve. For solder type coaxes, soft solder the outer ring to the assembly through the cross-drilled solder hold. For crimp type coaxes, crimp with the appropriate tool in the area defined.

Straight Coaxial



90° Coaxial



Coaxial Cable Trim Dimensions



RG Cable Number	Straight Coaxial			90° Coaxial		
	N ± 0,25 (.010)	O ± 0,25 (.010)	P ± 0,25 (.010)	N ± 0,25 (.010)	O ± 0,25 (.010)	P ± 0,25 (.010)
196/U, 178B/U, 187/U, 188/U, 179B/U, 316B/U	7,92 (.312)	6,35 (.250)	1,98 (.078)	9,52 (.375)	5,94 (.234)	1,57 (.062)
195/U, 180B/U, 58/U, 58B/U	9,52 (.375)	7,92 (.312)	1,98 (.078)	10,69 (.422)	7,92 (.312)	2,39 (.094)

Crimp Tooling



RG Cable Number	Tool Part Number	Description	Closure
196/U, 178B/U	070051-0000	CCT-DM	C
187/U, 179B/U, 188/U, 316B/U	070051-0000	CCT-DM	B
195/U, 180B/U, 58/U, 58B/U	070051-0000	CCT-DM	A

Hand tool with integral die set for all coaxial straight crimp braid.

Cable (Size 8) Loose Contacts — High Power — Solder

Plug



Part Number Gold Over Nickel	Part Number 50µ in. Gold over Ni	Current Rating	Wire Size
DM53745-1	DM53745-28	40 A	8 AWG
DM53745-7	DM53745-27	20 A	12 AWG
DM53745-8	DM53745-25	10 A	16 AWG

Receptacle



Part Number Gold Over Nickel	Part Number 50µ in. Gold over Ni	Current Rating	Wire Size
DM53744-1	DM53744-21	40 A	8 AWG
DM53744-6	DM53744-25	20 A	12 AWG
DM53744-7	DM53744-24	10 A	16 AWG

Cable (Size 8) Loose Contacts — High Power — Crimp

Plug



Recommended Wire Trim Length



Part Number Gold Over Nickel	Part Number 30µ in. Gold over Ni	Part Number 50µ in. Gold over Ni	ØA max.	ØB max.	Current Rating	Wire Size
DM130338-4	DM130338	DM130338-1	4,60 (.181)	5,84 (.230)	40 A	8 AWG
DM130339-4	DM130339	DM130339-1	2,54 (.100)	5,54 (.218)	20 A	12 AWG
DM130340-4	DM130340	DM130340-1	1,07 (.067)	2,59 (.102)	10 A	16 AWG

Receptacle



Recommended Wire Trim Length



Part Number Gold Over Nickel	Part Number 30µ in. Gold over Ni	Part Number 50µ in. Gold over Ni	ØA max.	ØB max.	Current Rating	Wire Size
DM130341-4	DM130341	DM130341-1	4,60 (.181)	5,84 (.230)	40 A	8 AWG
DM130342-4	DM130342	DM130342-1	2,54 (.100)	5,54 (.218)	20 A	12 AWG
DM130343-4	DM130343	DM130343-1	1,07 (.067)	2,59 (.102)	10 A	16 AWG

High Power Crimp Tooling

M300-BT



Wire Size	Crimp Tool/Locator		
	Crimp Tool	Tool Setting Number	Locator
8 AWG	M300-BT	6	TP968
10 AWG	M300-BT	5	TP968
12/14 AWG	M300-BT	1	TP968
16 AWG	FT-8	6	TH554
18 AWG	FT-8	5	TH554

Cable (Size 8) Loose Contacts — High Voltage — Straight

Plug



For tooling, see page 88.

Part Number Gold over Ni	Part Number 50 $\mu$ . in. Gold	Wire Size
DM51157	DM51157-8	20 AWG

Receptacle



For tooling, see page 88.

Part Number Gold over Ni	Part Number 50 $\mu$ . in. Gold	Wire Size
DM51155	DM51155-7	20 AWG

Cable (Size 8) Loose Contacts — High Voltage — 90°

Plug



For tooling, see page 88.

Part Number Gold over Ni	Part Number 50 $\mu$ . in. Gold	Wire Size
DM51157-5000	DM51157-5005	20 AWG

Receptacle



For tooling, see page 88.

Part Number Gold over Ni	Part Number 50 $\mu$ . in. Gold	Wire Size
DM51155-5000	DM51155-5004	20 AWG



PCB (Size 8) Loose Contacts — Coaxial 75 Ohm — Straight

Plug



Description	Part Number
Plug	DM130358-2

Receptacle



Description	Part Number
Receptacle	DM130346-2

PCB (Size 8) Loose Contacts — Coaxial 75 Ohm — 90°

Plug



Description	Part Number
Plug	DM130352-2

Receptacle



Description	Part Number
Receptacle	DM130321-3

PCB (Size 8) Loose Contacts — High Power — Straight

Pin



Description	Part Number
Pin	DM53745-110



Socket



Description	Part Number
Socket	DM53744-98



PCB (Size 8) Loose Contacts — High Power — 90°

Pin



Shell Size	Part Number	A ± 0,25 (.010)	B ± 0,25 (.010)	Ø C ± 0,13 (.005)
DE, DA, DB, DC	DM53745-104	10,62 (.418)	26,64 (1.049)	3,18 (.125)
DD	DM53745-107	13,41 (.528)	26,64 (1.049)	3,18 (.125)
European Footprint DE, DA, DB, DC, DD	DM53745-120	18,06 (.711)	11,00 (.433)	2,90 (.114)

Socket



Shell Size	Part Number	A ± 0,25 (.010)	B ± 0,25 (.010)	Ø C ± 0,13 (.005)
DE, DA, DB, DC	DM53744-92	13,41 (.528)	26,52 (1.044)	3,18 (.125)
DD	DM53744-95	10,62 (.418)	26,52 (1.044)	3,18 (.125)
European Footprint DE, DA, DB, DC, DD	DM53744-107	11,00 (.433)	17,93 (.706)	2,90 (.114)

PCB (Size 8) Loose Contacts — High Voltage — Straight

Plug



Part Number Gold over Ni	Part Number 50µ in. Gold
DM51157-13	DM51157-14

Receptacle



Part Number Gold over Ni	Part Number 50µ in. Gold
DM51155-12	DM51155-13

PCB Guide Pin and Socket



Installs into any Combo D, Size 8 cavity. This guide pin and socket system is ideal for blind mate applications where space is limited.

PCB Guide Pin



Part Number	Material	Finish
DM53745-126	Copper Alloy	Tin



PCB Guide Socket

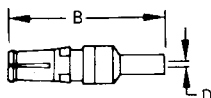
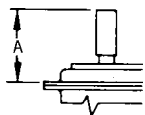


Part Number	Material	Finish
248-2967-000	Copper Alloy	Tin

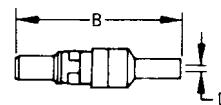


Cable (Size 8) Loose Contacts — Coaxial 50 Ohm — Straight

Straight Crimp Braid



Plug

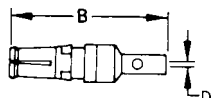
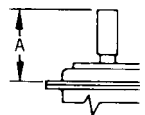


Receptacle

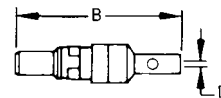
Note: Dimensions include outer sleeve

Description	Part Number 50 $\mu$ . in. Gold Over Copper	A max.	B max.	D min.	RG Cable Number	
					Old	New
Plug	DM53740-36	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U	179B/U
					188/U	316B/U
Receptacle	DM53742-37	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U	179B/U
					188/U	316B/U

Straight Solder Braid



Plug

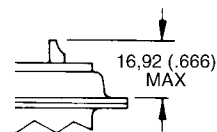
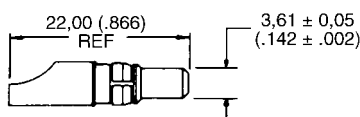


Receptacle

Description	Part Number 50 $\mu$ . in. Gold Over Copper	A max.	B max.	D min.	RG Cable Number	
					Old	New
Plug	DM53740-5147	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U	179B/U
					188/U	316B/U
Receptacle	DM53742-5127	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U	179B/U
					188/U	316B/U

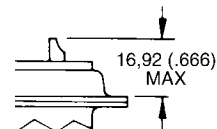
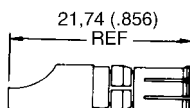
Cable (Size 8) Loose Contacts — High Power — Solder

Plug



Part Number 50µ in. Gold Over Copper Non-Magnetic	Part Number 50µ in. Gold Over Copper Non-Magnetic (European)	Part Number 50µ in. Gold	Current Rating	Wire Size
DM53745-72	DM115224-1040A	DM53745-28	40 A	8 AWG
DM53745-77	DM115224-1020A	DM53745-27	20 A	12 AWG
DM53745-70	DM115224-1010A	DM53745-25	10 A	16 AWG

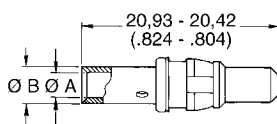
Receptacle



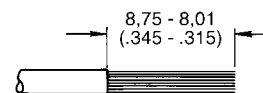
Part Number 50µ in. Gold Over Copper Non-Magnetic	Part Number 50µ in. Gold Over Copper Non-Magnetic (European)	Part Number 50µ in. Gold	Current Rating	Wire Size
DM53744-62	DM115224-2040A	DM53744-21	40 A	8 AWG
DM53744-64	DM115224-2020A	DM53744-25	20 A	12 AWG
DM53744-63	DM115224-2010A	DM53744-24	10 A	16 AWG

Cable (Size 8) Loose Contacts — High Power — Crimp

Plug

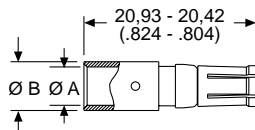


Recommended Wire Trim Length

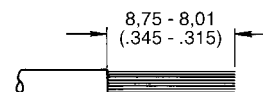


Part Number 50µ in. Gold Over Copper Non-Magnetic	Part Number 50µ in. Gold	ØA max.	ØB max.	Part Number 50µ in. Gold Over Copper Non-Magnetic (European)	ØA min.	ØB max.	Current Rating	Wire Size
DM115224-3040	DM130338-1	4,60 (.181)	5,84 (.230)	DM115224-3040A	4,20 (.165)	5,80 (.228)	40 A	8 AWG
DM115224-3020	DM130339-1	2,54 (.100)	5,54 (.218)	DM115224-3020A	3,25 (.128)	4,70 (.185)	20 A	12 AWG
DM115224-3010	DM130340-1	1,07 (.067)	2,59 (.102)	DM115224-3010A	2,50 (.098)	3,80 (.150)	10 A	16 AWG

Receptacle



Recommended Wire Trim Length



Part Number 50µ in. Gold Over Copper Non-Magnetic	Part Number 50µ in. Gold	ØA max.	ØB max.	Part Number 50µ in. Gold Over Copper Non-Magnetic (European)	ØA min.	ØB max.	Current Rating	Wire Size
DM115224-4040	DM13041-1	4,60 (.181)	5,84 (.230)	DM115224-4040A	4,20 (.165)	5,80 (.228)	40 A	8 AWG
DM115224-4020	DM13042-1	2,54 (.100)	5,54 (.218)	DM115224-4020A	3,25 (.128)	4,70 (.185)	20 A	12 AWG
DM115224-4010	DM13043-1	1,07 (.067)	2,59 (.102)	DM115224-4010A	2,50 (.098)	3,80 (.150)	10 A	16 AWG

Crimp High Power Tooling

M300-BT



Wire Size	Crimp Tool	Crimp Tool/Locator		
		Tool Setting Number Standard Contacts	Tool Setting Number European Contacts	Locator
8 AWG	M300-BT	6	6	TP968
10 AWG	M300-BT	5	2	TP968
12 AWG	M300-BT	1	1	TP968

# Mouser Electronics

Authorized Distributor

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## ITT Cannon:

[DM130342](#) [DM130339](#) [DM53744-25](#) [DM130341](#) [DM53742-16](#) [DM130342-1](#) [DM53744-63](#) [DM53744-24](#)  
[DM53740-5005](#) [DM130338-1](#) [DM53743-5086](#) [DM53740-5008](#) [DM53745-28](#) [DM53743-16](#) [DM53744-64](#) [DM53742-5089](#) [DM53745-72](#) [DM130343-4](#) [DM53742-5](#) [DM53740-5001](#) [DM53741-5062](#) [DM53740](#) [DM130339-1](#) [DM53741-1](#)  
[DM53744-72](#) [DM53740-5002](#) [DM130340](#) [DM53740-5](#) [DM53741-5000](#) [DM53742-5002](#)