

Coaxial Contacts

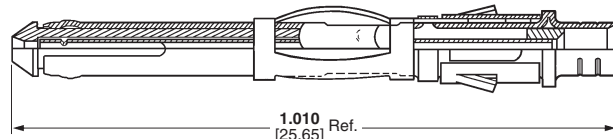
Subminiature, Crimp, Snap-In, Size 16



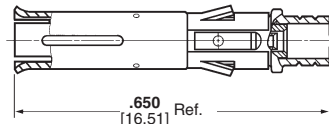
Pin



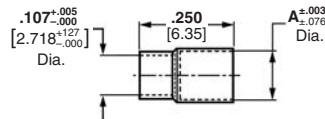
Socket



Pin



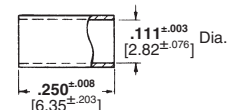
Socket



Ferrule

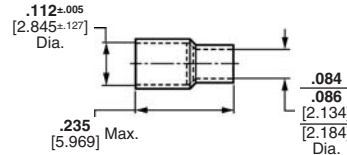
Part No. 225088-1—A .120 [3.05] Dia.

225088-3—A .123 [3.12] Dia.



Ferrule

Part No. 1-332056-0



Ferrule

Part No. 1-332057-0

Selection Chart for Coaxial Cable

Material

Outer Shell—Brass per MIL-C-50

Center Conductor—Beryllium copper per QQ-C-533 (Pin); Brass per QQ-B-626 (Socket)

Inner Dielectric—Polypropylene

Retention Spring—Stainless steel per QQ-S-766

Ferrule—Copper per QQ-C-576 or ASTM-B-152 (1-332056-0)

Finish

Outer Shell, Center Conductor—See charts

Ferrule—Tin-lead per MIL-T-10727

Cable Size (RG/U)	Contact Finish	Loose Piece Contact No.		Ferrule Part No.	Tooling Part No.	
		Pin	Socket		Die Inserts for Hand Tool 69710-1 or Pneumatic Tool*	Hand Tool
178, 196	Gold/Nickel Gold/Copper ¹	226537-2◆	51565-2◆	1-332057-0◆	69690-2◆	69656-2◆
	Gold/Nickel Gold/Copper ²	—	51565-5◆			
196 (Double Braid)	Gold/Nickel Gold/Copper ¹	226537-2◆	51565-2◆	225088-1◆	—	69656-9◆
	Gold/Nickel Gold/Copper ²	—	51565-5◆			
174, 188, 316	Gold/Nickel Gold/Copper ¹	226537-1◆	51565-1◆	1-332056-0◆	69690◆	91911-3**◆
	Gold/Nickel Gold/Copper ²	226537-4◆	51565-4◆			
174 (Double Braid)	Gold/Nickel Gold/Copper ¹	226537-1◆	51565-1◆	225088-3◆	—	69656-7◆
	Gold/Nickel Gold/Copper ²	226537-4◆	51565-4◆			
179, 187	Gold/Nickel Gold/Copper ¹	226537-1◆	51565-1◆	1-332056-0◆	69690-1◆	91911-4**◆
	Gold/Nickel Gold/Copper ²	226537-4◆	51565-4◆			
187 (Double Braid)	Gold/Nickel Gold/Copper ¹	226537-1◆	51565-1◆	225088-1◆	—	69656-8◆
	Gold/Nickel Gold/Copper ²	226537-4◆	51565-4◆			
161	Gold/Nickel Gold/Copper ¹	226537-1◆	51565-1◆	1-332056-0◆	—	69656-5◆
	Gold/Nickel Gold/Copper ²	226537-4◆	51565-4◆			

*Use hand actuated Power Unit **Part No. 189721-2** or foot actuated Power Unit **Part No. 189722-2**. Both units require "C" Head Die Set Adapter **Part No. 318161-1** and an Adapter Holder **Part No. 356304-1** (with ratchet) or **Part No. 189928-1** (without ratchet). Request Catalog 124208 for more information on the 626 Pneumatic Tool System.

**Die Set used with PRO-CRIMPER II hand tool frame Part No. 354940-1.

Extraction Tool **Part No. 305183**

Note: All part numbers are RoHS compliant except: ◆ Indicates non-RoHS compliant.

Subminiature, Crimp, Snap-In, Size 16

(Continued)

Coaxial Contacts (Continued)

Selection Chart for Twisted Pair and Shielded Wire

Wire Size		Contact Finish	Loose Piece Contact No.		Ferrule Part No.	Tooling Part No.***	
AWG	[mm ²]		Pin	Socket		Die Inserts for Hand Tool 69710-1 or Pneumatic Tool*	Hand Tool
30	0.05	Gold/Nickel Gold/Copper ¹	226537-3♦	51565-3♦	1-332057-0♦	69690-2♦	69656-2♦
28	0.08-0.09	Gold/Nickel Gold/Copper ¹	226537-3♦	51565-3♦	1-332057-0♦	69690♦	91911-3**♦
28	0.08-0.09	Gold/Nickel Gold/Copper ¹	226537-3♦	51565-3♦	1-332057-0♦	69690-1♦ or 69690-2♦	91911-4**♦ or 69656-2♦
26	0.12-0.15	Gold/Nickel ¹ Gold/Copper	226537-3♦	51565-3♦	1-332057-0♦	69690♦	91911-3**♦
26	0.12-0.15	Gold/Nickel Gold/Copper ¹	226537-1♦	51565-1♦	1-332057-0♦	69690-3♦	69656-3♦
(Shielded, .075 [1.91] Max. O.D.)		Gold/Nickel Gold/Copper ²	226537-4♦	51565-4♦			

¹.000030 [0.00076] gold over .000050 [0.00127] nickel—outer shell and socket center conductor; .000030 [0.00076] gold over .000100 [0.00254] copper—pin center conductor.

².000050 [0.00127] gold over .000050 [0.00127] nickel—outer shell and socket center conductor; .000050 [0.00127] gold over .000100 [0.00254] copper—pin center conductor.

* Use hand actuated Power Unit **Part No. 189721-2** or foot actuated Power Unit **Part No. 189722-2**. Both units require "C" Head Die Set Adapter **Part No. 318161-1** and an Adapter Holder **Part No. 356304-1** (with ratchet) or **Part No. 189928-1** (without ratchet). Request Catalog 124208 for more information on the 626 Pneumatic Tool System.

**Die Set used with PRO-CRIMPER II hand tool frame Part No. 354940-1.

***There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

Note: A ferrule is required for each pin and socket.

Extraction Tool Part No. 305183
Note: All part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Coaxial Contacts (Continued)

Miniature, Crimp, Snap-In, Size 12



Pin

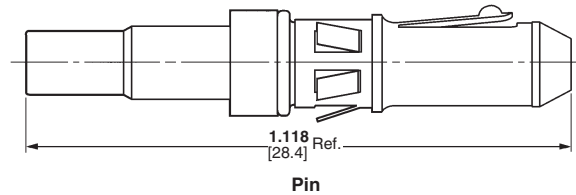
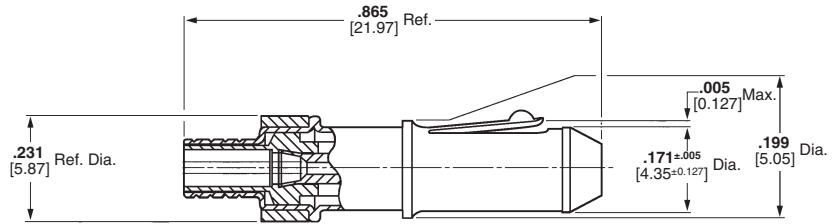


Socket

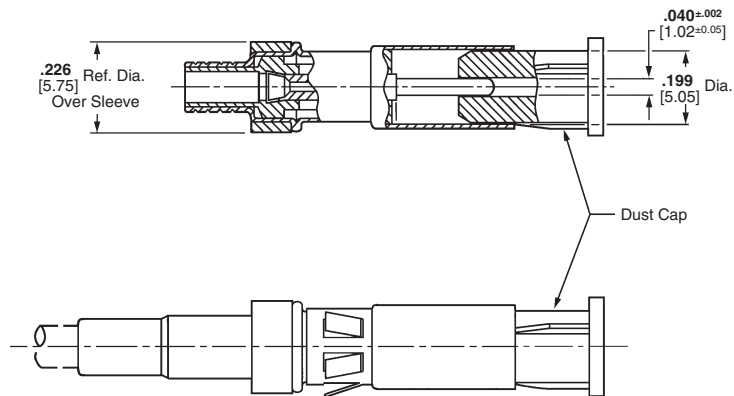


Ferrule

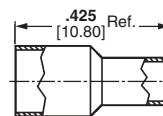
Retention Spring
Part No. 201142-1



Pin



Socket



Ferrule

Material

Outer Shell—Brass per MIL-C-50

Center Conductor—Brass per QQ-B-626

Inner Dielectric—Polymethylpentene

Retention Spring—Beryllium copper per QQ-C-533

Ferrule—Copper per QQ-C-576

Finish

Outer Shell, Center Conductor—See charts on next page

Retention Spring—Nickel per QQ-N-290

Ferrule—Tin-lead per MIL-T-10727

Extraction Tool **Part No. 305183-8**

Note: All part numbers are RoHS compliant.

Coaxial Contacts (Continued)

Miniature, Crimp, Snap-In, Size 12 (Continued)

Selection Chart for Coaxial Cable

Cable Size (RG/U)	Contact Finish	Loose Piece Contact No.		Ferrule Part No.	Tooling Part No.***	
		Pin	Socket		Die Inserts for Hand Tool 69710-1 or Pneumatic Tool*	Hand Tool
55, 55A, 55B 141, 142, 223	Gold/Nickel ¹ Gold/Copper ²	201145-4♦	201146-4♦ 201146-9♦	330478♦	69315-4♦	69248-4♦
58, 58A, 58B, 58C	Gold/Nickel ¹ Gold/Copper ²	201145-4♦	201146-4♦ 201146-9♦	328663♦	69220-2♦	45740-2♦
174, 179A, 187, 21-598	Gold/Nickel ¹ Gold/Copper ²	201143-1♦	201144-1♦ 201144-6♦	328666♦	69227-2♦	91912-3**♦
180, 180A, 195, 21-597	Gold/Nickel ¹ Gold/Copper ²	201145-2♦	201146-2♦ 1-201145-0♦ 1-201146-0♦	328664♦	69222-2♦	45639-2♦
178, 178A, 196	Gold/Nickel ¹	201511-1♦	201512-1♦	328667♦	69373♦	69186-2♦
188	Gold/Nickel ¹ Gold/Copper ²	201143-5♦ 201143-7♦	201144-5♦ 201144-7♦	328666♦	69227-2♦	91912-3**♦
122	Gold/Nickel ¹	201145-1♦	—	328664♦	69222-2♦	45639-2♦
188 Double Braid 316 Double Braid	Gold/Nickel ¹ Gold/Copper ²	201143-5♦ 201143-7♦	201144-5♦ 201144-7♦	221848-3♦	—	58290-1♦
Special .125, .100, .066, .012DB	Gold/Nickel ¹	201143-1♦	201144-1♦	221848-3♦	—	58290-1♦

Selection Chart for Twisted Pair

Wire Size AWG [mm ²]	Max. Ins. Dia. (Two Wires Combined)	Contact Finish	Loose Piece Contact No.		Ferrule Part No.	Tooling Part No.***	
			Pin	Socket		Die Inserts for Hand Tool 69710-1 or Pneumatic Tool*	Hand Tool
28-26 0.08-0.15 (Solid)	.080 2.03	Gold/Nickel ¹	201511-1♦	201512-1♦	328667♦	69373♦	69186-2♦
24-22 0.2-0.4 (Stranded)	.115 2.92	Gold/Nickel ¹ Gold/Copper ²	201143-5♦ 201143-7♦	201144-5♦ 201144-7♦	328666♦	69672♦	91912-3**♦
24-22 0.2-0.4 (Solid or Stranded)	.160 4.06	Gold/Nickel ¹	50079-1♦	50080-1♦	329029♦	69222-2♦	45639-2♦

Selection Chart for Shielded Wire

Shielded Wire AWG No.	Contact Finish	Loose Piece Contact No.		Ferrule Part No.	Tooling Part No.	
		Pin	Socket		Die Inserts for Hand Tool 69710-1 or Pneumatic Tool*	Hand Tool
22 NAS-702, Class A 22 MIL-C-7078A, Type II	Gold/Nickel ¹	—	201144-3♦	328666♦	69227-2♦	91912-3**♦
22 NAS-702, Class B	Gold/Nickel ¹ Gold/Copper ²	201145-4♦	201146-4♦ 201146-9♦	328663♦	69220-2♦	45740-2♦

Selection Chart for Various Manufacturers' Cables

Cable Size		Dielectric O.D. (Max.)	Cable O.D. Range	Braid	Contact Finish	Loose Piece Contact No.		Ferrule Part No.	Tooling Part No.***	
AWG/Type	[mm²]					Pin	Socket		Die Inserts for Hand Tool 69710-1 or Pneumatic Tool*	Hand Tool
Brand Rex T209A 29 AWG	0.08	.076 1.93	.112-.122 2.84-3.10	Single	Gold/Nickel ¹	—	201146-6♦	330587♦	—	69360-2♦
Brand Rex T5788A 26 AWG	0.12-0.15	.106 2.69	.160 4.06	Single	Gold/Nickel ¹ Gold/Copper ²	201145-2♦ 1-201145-0♦	201146-2♦ 1-201146-0♦	328664♦	69222-2♦	45639-2♦
Raychem 0030D1314 Army Ord. 11207177 32-26 AWG	0.03-0.15	.129 3.28	.122-.137 3.10-3.48	Single	Gold/Nickel ¹	—	201146-6♦	330587♦	—	69360-2♦

¹.000030 [0.00076] gold over .000030 [0.00076] nickel.

².000100 [0.00254] gold over .000100 [0.00254] copper.

* Use hand actuated Power Unit **Part No. 189721-2** or foot actuated Power Unit **Part No. 189722-2**. Both units require "C" Head Die Set Adapter **Part No. 318161-1** and an Adapter Holder **Part No. 356304-1** (with ratchet) or **Part No. 189928-1** (without ratchet). Request Catalog 124208 for more information on the 626 Pneumatic Tool System.

**Die Set used with PRO-CRIMPER II hand tool frame Part No. 354940-1.

***There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

Note: A ferrule and retention spring (201142-2) are required for each pin and socket.

Note: All part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Application Tooling



Crimp Quality Monitor (CQM)

This unique system provides 100% on-the-fly crimp inspection. It measures the crimp height of each termination, and evaluates the quality of each crimp. If a crimp is questionable, the monitor alerts the operator with both visual and audible alarms. It also provides ports for printing and networking. When used with AMP-O-LECTRIC Model "G" Termination Machines, the monitor is mounted to the machine. When used with AMPOMATOR CLS IV Lead-Making Machines, it is integrated into the machine's operating system.

For complete information, request Catalog 82275.



AMP-O-MATIC Stripper-Crimper Machine

Semiautomatic bench crimping machines that also strip the wire, and are therefore used for terminating jacketed cable. Feature manual precision adjustment of crimp height, keyed strip blades for faster, more accurate setups, and an efficient scrap removal system. All adjustments can be made from the front of the machines without special tools. Available with crimp quality monitoring.

For complete information, request Catalog 65004.



Quick-Change Applicators

These applicators can be changed in minutes to afford maximum flexibility and minimum production downtime for a wide range of AMP automatic machines. Crimp height for a given wire size is simply "dialed in."

For complete information, see specific AMP automatic machine catalog.

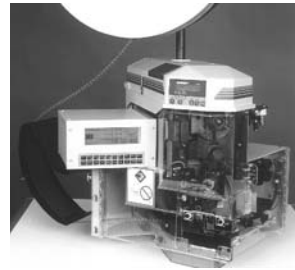


AMPOMATOR System III Leadmaker

The AMPOMATOR System III is an automatic machine for the production of terminated wire leads. The machine combines state of the art technology to process single and double wire application utilizing the wire processing industry's best and most friendly subsystems and accessories available to meet the latest market requirements for wire lead production.

The new machine incorporates a servo-driven, software-controlled AMP-O-LECTRIC ST III terminator and the next generation System III Applicator.

See catalog 1654956-5 for more information.



AMP-O-LECTRIC Model G Terminating Machine

Semiautomatic bench machines for crimping reeled terminals and contacts, featuring a quiet and reliable direct motor drive, microprocessor controls for ease of setup and operation, and guarding and lighting designed for operator convenience. All models are equipped with either manual or automatic precision adjustment of crimp height. Machine-mounted sensors are available for crimp quality monitoring using conventional miniature-style applicators.

For complete information, request Catalog 65828.



The EDGE, Electronic Applicator Counter

The new, versatile EDGE applicator counter tracks wearable tool usage for the most effective maintenance planning. The completely electronic counter, with clear LCD display, indicates cycles since installation. By performing maintenance at measured intervals with pre-set limits, operators avoid breakdowns and rejects caused by tool wear or mis-adjustment.

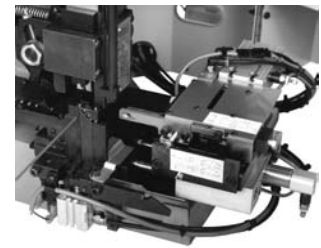
For more information, request Catalog 1773385.



AMP 3K/40 and AMP 5K/40 Terminators

As a value oriented terminator, the AMP 3K/40 and AMP 5K/40 are designed for customers that require the increased output and quality of a semiautomatic machine at a competitive price. By incorporating the most commonly requested features as standard and offering a long list of optional equipment, these terminators offer flexibility to meet the specific needs of various applications at the lowest possible cost.

For more information, request catalog 1654856.



Optional Stripping Module for the AMP 3K/40, AMP 5K/40 and AMP-O-LECTRIC Model G

The combination of the Stripping Module with the AMP-O-LECTRIC Model G Terminator or the AMP 3K/40, 5K/40 provides an economical, proficient method of stripping wire and crimping terminals on the same machine. Wires are stripped moments before crimping, meaning there is virtually no chance of damaging wire conductors during handling or storage. Once the wire is fed into the start sensor the Stripping Module does the rest, improving placement accuracy.

For more information, request catalog 1309085.

Application Tooling (Continued)



PRO-CRIMPER II Hand Tool Part No. 58495-1

Commercial grade hand tool for crimping various products. Features ratchet control to provide complete crimp cycle. Accepts both pinned- and shouldered-style die sets. Locators are provided with pinned-style die sets for proper contact and wire positioning, and to help minimize contact rotation and bending during crimping. Approximate weight 1.3 lb [0.60 kg].

For complete information, request Catalog 82276.

CERTI-CRIMP Hand Tools

These premium tools are ideal for small production, prototype and experimental applications. They are used for terminating pin and socket contacts to wire and feature the CERTI-CRIMP ratchet device to provide for properly formed crimps.



Straight Action Hand Tool

For Type III+ contacts, see page 9.



"C" Head Straight Action Hand Tool, Part No. 69710-1

For subminiature coaxial contacts, see pages 25 & 26.



626 Pneumatic Tool, Part No. 189721-2 (Power Unit ONLY)

For various contacts, see pages 9, 13-14, 17, 20, 23 & 25-28.

Battery-Powered Crimp Tool Kits

The Battery-Powered Crimp Tool Kit is a fast, ergonomically-designed tool is ideal for use at the bench, on the line, or in the field. It's completely portable, lightweight (3.48 lbs including battery) and compact. The charge delivers over 100 crimps — charge time is 40 mins. The kit includes the tool, 2 batteries and the charger.

P/N 1213890-1 — SDE Battery Powered Crimp Tool Kit (dies not included)

P/N 1213805-1 — CERTI-CRIMP II, SA Battery Powered Crimp Tool Kit (heads not included)

P/N 1213840-1 — CERTI-CRIMP, Large Die, C-Head Adapter Battery Powered Crimp Tool Kit (dies not included)

P/N 1213819-1 — CERTI-CRIMP, Large Die, Straight-Action Adapter Battery Powered Crimp Tool Kit (dies not included)

See catalog 1773381 for more information.



SDE Electric Terminator

The SDE Electric Terminator is a compact benchtop unit with the features normally found on more expensive models. It is ideally suited for low to medium volume bench production and harness assembly. The system accommodates dozens of interchangeable dies in an ever-expanding range, including those for open-barrel contacts and terminals.

P/N 1490076-2 — SDE Electric Terminator

P/N 1213860-1 — CERTI-CRIMP II, Straight Action Head Adapter

P/N 1901556-1 — CERTI-CRIMP II, Large Die Adapter

See catalog 1654714 for more information.



Note: This numerical index lists all cataloged parts by base no. only. Complete part nos. (with prefixes and/or suffixes) are shown on the page(s) indicated.

Part Number Index

Part No.	Page
50079	28
50080	28
51565	25,26
66098	9
66099	9
66100	9
66101	9
66102	9
66103	9
66104	9
66105	9
66106	9
66107	9
66108	9
66109	9
66180	11
66181	11
66182	11
66183	11
66253	23
66254	23
66255	23
66256	23
66259	23
66260	23
66261	23
66262	23
66331	9
66332	9
66358	9,13
66359	9,13
66360	9,13
66361	9,13
66393	9
66394	9
66399	9
66400	9
66405	9
66406	9
66424	9
66425	9
66428	9
66429	9

Part No.	Page
66459	12
66460	12
66461	12
66468	12
66470	12
66471	12
66473	12
66563	9
66564	9
66565	9
66566	9
66569	17
66570	17
66597	9,13
66598	9,13
66601	9,13
66602	9,13
66740	23
66741	23
164159	10
164160	10
164161	10
164162	10
164163	10
164164	10
189721	13
193457	22
193458	22
193534	22
193535	22
193642	22
193643	22
193814	22
193844	19
193846	19
193990	24
193991	24
194264	19
200333	14
200336	14
201142	27,28
201143	28
201144	28

Part No.	Page
201145	28
201146	28
201328	14
201330	14
201332	14
201334	14
201511	28
201512	28
201568	14
201570	14
201578	14
201580	14
201611	14
201613	14
202236	11
202237	11
202410	14
202411	14
202417	18
202418	18
202421	18
202422	18
202507	14
202508	14
202725	14
202726	14
204219	14
205201	16
205202	16
205310	16
205311	16
206036	24
206037	24
206060	19
207152	19
207153	19
212008	21
212014	21
212618	14
213426	22
213427	22
213499	22
213500	20,22

Part No.	Page
213552	21
213567	21
213662	21
213737	21
213740	21
213750	21
213841	20
213843	20
213845	20
213847	20
213886	20
217201	13
221848	28
224155	24
225088	25
226537	25,26
328663	28
328664	28
328666	28
328667	28
329029	28
330478	28
330587	28
332056	25
332057	25,26
356304	13
745229	16
745230	16
788085	9
788088	9
796764	19
796964	19
796966	19
1658537	15
1658538	15
1658539	15
1658540	15
1658543	15
1658544	15
5066682	15
5066683	15

Tooling Numerical Index

Part No.	Page
45098	14
45639	28
45740	28
58290	28
58448	15
58495	9,10,30
58541	14
69186	28
69222	28
69227	28
69248	28
69315	28
69360	28
69373	28
69656	25,26
69672	28
69690	25,26
69710	20,23,25,26,28,30
69875	14
90121	18
90122	18
90136	14
90140	23
90145	23
90225	9
90230	14
90231	14
90249	14

Part No.	Page
90250	14
90716	9
91002	9
91019	23
91285	15
91503	15
91505	9,10
91513	16
91515	9,10
91519	9,13
91521	9,13
91523	9,10
91525	15
91538	14
91539	14
91542	9
91548	16
91549	15
91911	25,26
91912	28
189721	9,10,13,14,15,18,20,23,25,26,28,30
189722	13
189928	9,10,13,14,15,18,23,25,26,28
200893	9,12,14
305183	9,11,12,14,18,19,22,25,26,27

Part No.	Page
318161	14,18,20,23,25,26,28
318813	20,22
354500	20
354940	25,26,28
356114	22,24
356119	24
356304	9,10,14,15,18,20,23,25,26,28
356336	22
356611	20
356612	20
466321	9
466323	9,10
466324	9
466325	9
466326	9,13
466383	9
466422	15
466423	15
466585	9
466598	9
466741	10
466758	15
466900	15
466901	15
466906	9
466907	9,10
466908	9

Part No.	Page
466923	9,13
466942	9
466958	9,13
466963	15
466968	15
466979	9
567021	23
567036	15
567363	9
567364	9,13
567455	23
567801	15
567804	15
567849	15
567867	9
567947	9
601967	14,19
608651	21
608668	21
680114	10
680195	20
680197	20
680602	9
725840	10
1016002	15
1016015	15
SP867	21