



Terminals and Connectors

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Splice Connector	15305291	
Lock	12176513	
Cap (cream 1-12)	15305292	
Terminal (18 ga)	12110844	
Terminal (16-14 ga)	12129424	

Splice Connector	15305288	
Lock	12176513	
Cap (green 2-6)	15305289	
Terminal (18 ga)	12110844	
Terminal (16-14 ga)	12129424	

Splice Connector	15305294	
Lock	12176513	
Cap (black 1-12 M6)	15305295	
Terminal (18 ga)	12110844	
Terminal (16-14 ga)	12129424	

Splice Connector	12176473	
Lock	12176475	
Cap (brown 4-3)	12176478	
Terminal (18 ga)	12110844	
Terminal (16-14 ga)	12129424	

Crimping Tool

06285847

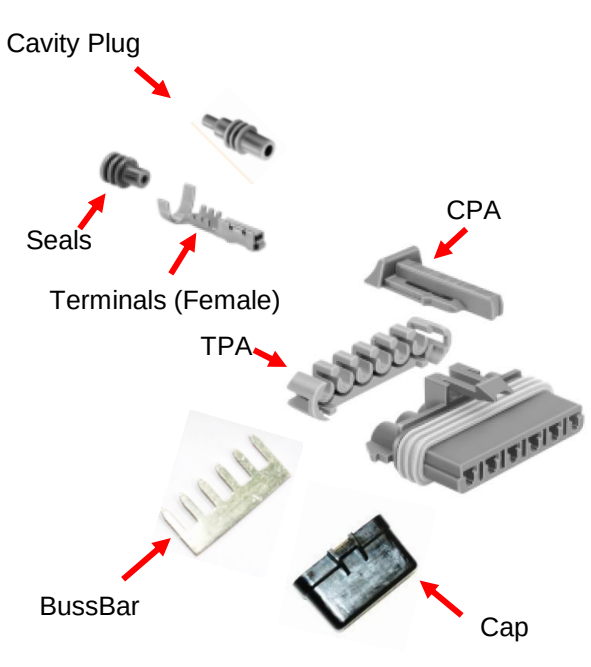


Extraction Tool

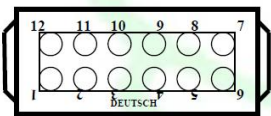
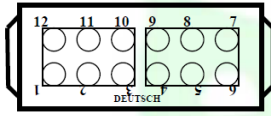
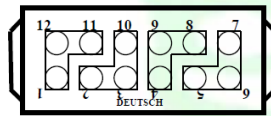
12094429

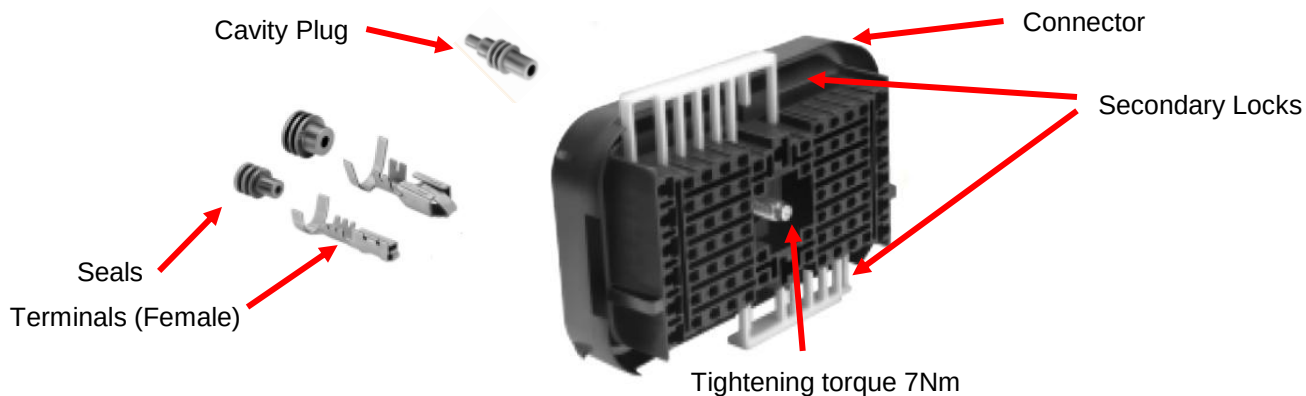
12094430



Splice Connector	12059573	 Cavity Plug Seals Terminals (Female) CPA TPA BussBar Cap
TPA	12059195	
CPA	12052834	
Buss Bar	0405052	
Cap	0405051	
Terminal (18-16 ga)	12077411	
Terminal (14-12 ga)	12129493	
Seal (18 ga)	12089679	
Seal (16-14 ga)	12010293	
Seal (12 ga)	12015193	

Crimping and extraction tools see page 4

Splice Connector (black 1-12)	N38291-12		 Splice Connector
Splice Connector (black 2-6)	N38291-06		
Splice Connector (black 4-3)	N38291-04		
Mounting Bracket	N38336	Mounting Bracket 	
Mating Connector			
Lock	N30652	     Terminals (Female)	Lock
Connector	N30630		
Terminal (18 ga)	N35953		
Terminal (16 ga)	N25894		
Terminal (14 ga)	N25894		
Cavity plug	N11681		
Crimping tool Deutsch HDT-48-00 Wire Gauge 20-16-12		 HDT-48-00	



Connector (78F)	12129206		
Secondary Lock	12129214(White)		
Cavity Plug	Dk. Red (5.2mm)	Lt. Grn (8.5mm)	Lt. Grn (9.8mm)
	12059168	12010300	12059255
Terminals (Female)	B-F/H-M	A1-6/N1-6	G1-G2
Wire Gauge 20	12084200	12084201	12052457
Wire Gauge 18	12048074	12077411	12052457
Wire Gauge 16	12048074	12077411	12052455
Wire Gauge 14		12129493	12052455
Wire Gauge 12		12129493	12052456
Wire Gauge 10		12077413	12052456
Seals			
Wire Gauge 20	12089678(White)	12089679(Purple)	12052388(Dk. Red)
Wire Gauge 18	12089678(White)	12015323(Green)	12052388(Dk. Red)
Wire Gauge 16	12048086(Bk. Red)	12010293(Lt. Gry)	12052387(Lt. Gry)
Wire Gauge 14		12015193(Blue)	12052386(Grn)
Wire Gauge 12		12015193(Blue)	12052386(Grn)
Wire Gauge 10		12015193(Blue)	12052386(Grn)

Crimping Tools

12155975

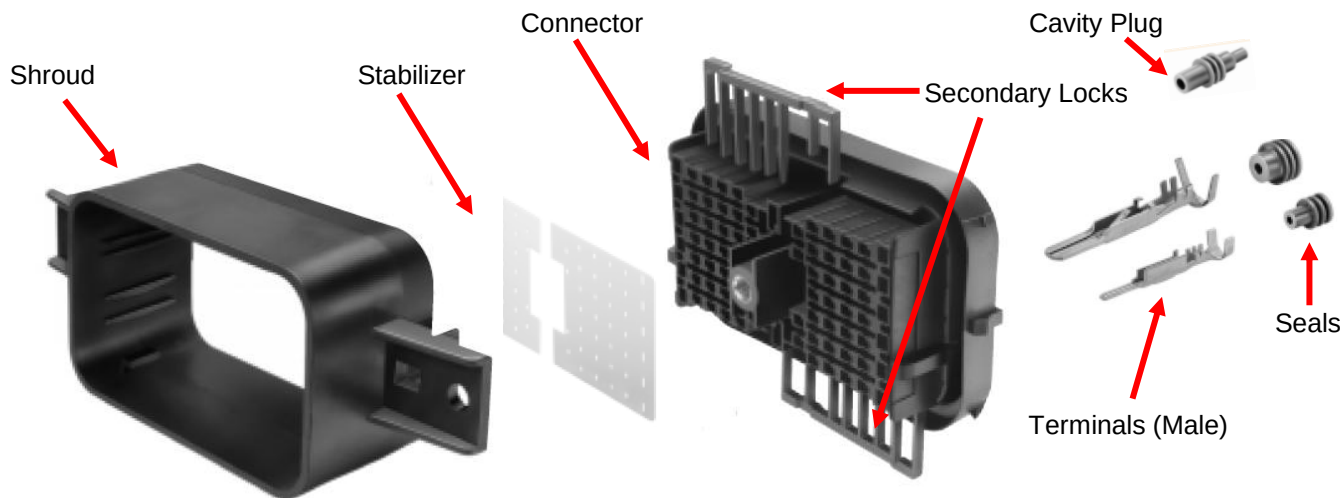
12071687 (10 gauge wire)

**Extraction Tools**

12094429

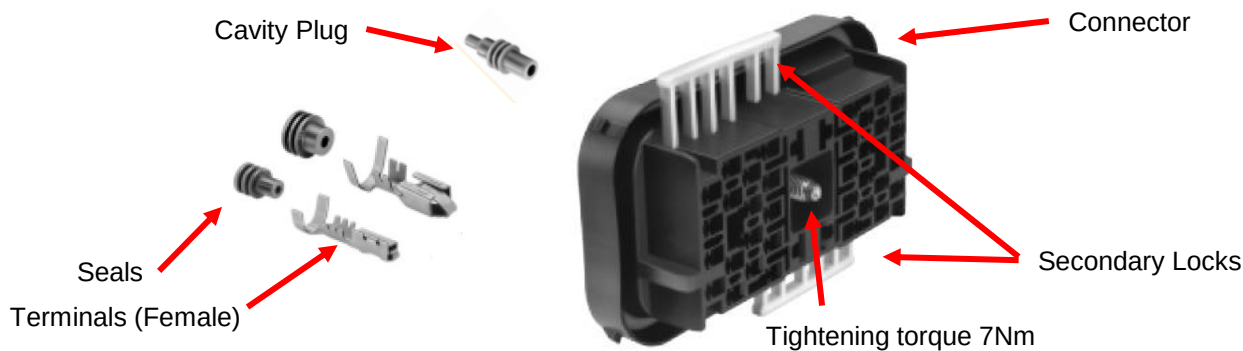
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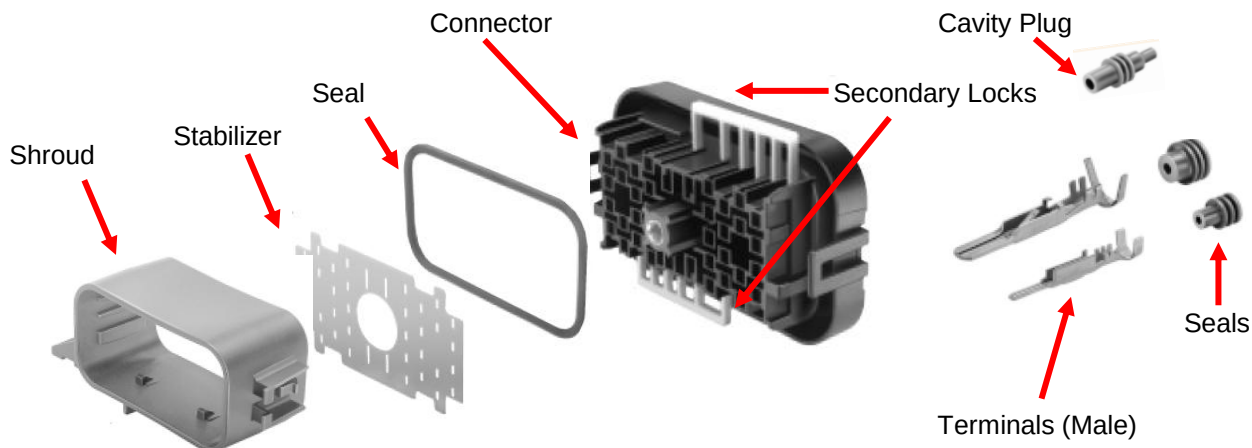
Connector (78M)	12176690		
Secondary Lock	12129213(Blue)		
Stabilizer	12162573(White)		
Sliding Shroud	12162527(Black)		
Cavity Plug	Dk. Red (5.2mm)	Lt. Grn (8.5mm)	Lt. Grn (9.8mm)
	12059168	12010300	12059255
Terminals (Male)	B-F/H-M	A1-6/N1-6	G1-2
Wire Gauge 20	12077628	12124977	12064734
Wire Gauge 18	12045773	12048159	12064734
Wire Gauge 16	12045773	12048159	12064735
Wire Gauge 14		12129497	12064735
Wire Gauge 12		12129497	12064737
Wire Gauge 10		12048254	12064736
Seals			
Wire Gauge 20	12089678(White)	12089679(Purple)	12052388(Dk. Red)
Wire Gauge 18	12089678(White)	12015323(Green)	12052388(Dk. Red)
Wire Gauge 16	12048086(Bk. Red)	12010293(Lt. Gry)	12052387(Lt. Gry)
Wire Gauge 14		12015193(Blue)	12052668(Blue)
Wire Gauge 12		12015193(Blue)	12052386(Green)
Wire Gauge 10			12052386(Green)

Crimping and extraction tools see page 7



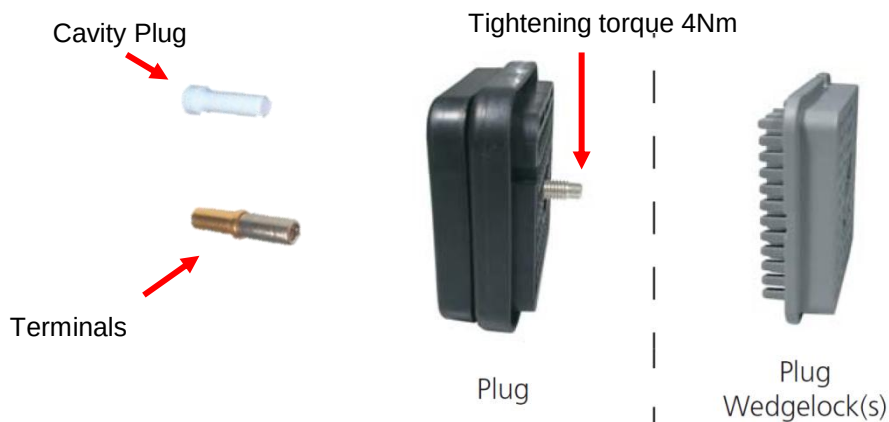
Connector (38F)	12191499	
Secondary Lock	12129669(White)	
Cavity Plug	Lt. Grn (8.5mm)	Lt. Grn (9.8mm)
	12010300	12059255
Terminals	A1-6/N1-6(tangless)	E-F
Wire Gauge 20	12110846*	12052457
Wire Gauge 18	12110847*	12052457
Wire Gauge 16	12110847*	12052455
Wire Gauge 14	12110845*	12052455
Wire Gauge 14	12129409	
Wire Gauge 12	12110853	12052456
Wire Gauge 10		12052456
Seals		
Wire Gauge 20		
Wire Gauge 18	12089679(Purple)	12052388(Dk. Red)
Wire Gauge 16	12015323(Green)	12052387(Lt. Gry)
Wire Gauge 14	12015323(Green)	12052388(Dk. Red)
Wire Gauge 12	12052668(Blue)	12052386(Green)
Wire Gauge 10		12052386(Green)

* Thin stock electrical current restriction may apply
Crimping and extraction tools see page 7



Connector (38M)	12191487	
Secondary Lock	12129670(White)	
Connector Seal	12129672	
Stabilizer	15317352	
Shroud	12161191	
Cavity Plug	Lt. Grn (8.5mm)	Lt. Grn (9.8mm)
	12010300	12059255
Terminals	A-D/H-K	E-F
Wire Gauge 20	12124977	12064734
Wire Gauge 18	12048159	12064734
Wire Gauge 16	12048159	12064735
Wire Gauge 14	12129497	12064735
Wire Gauge 12	12129497	12064737
Wire Gauge 10		12064736
Seals		
Wire Gauge 20	12089679(Purple)	12052388(Dk. Red)
Wire Gauge 18	12089679(Purple)	12052388(Dk. Red)
Wire Gauge 16	12010293(Green)	12052387(Lt. Gry)
Wire Gauge 14	12015323(Green)	12052668(Blue)
Wire Gauge 12	12052668(Blue)	12052386(Green)
Wire Gauge 10		12052386(Green)

Crimping and extraction tools see page 7



Connector Male(Plug)	N40168-01			
Wedgelock Left	N40168-02			
Wedgelock Right	N40168-06			
Cavity Plug	N11681	N11681	N40191-01	N37427
Terminals	9-94	1-8/95-102	48-49/54-55	43/60
Wire Gauge 20	G5900714			
Wire Gauge 18	G5900714			
Wire Gauge 16	G5900714	N10274		
Wire Gauge 14		N10274		
Wire Gauge 12		N10274		
Wire Gauge 8			N30596	
Wire Gauge 4				N34578

Crimping tool
Deutsch HDT-48-00
 Wire Gauge 20-16-12



HDT-48-00

Crimping Tool
Deutsch HDT-04-08
 Wire Gauge 4-8



HDT-04-08



Connector Female (Receptacle)	N40168-05			
Wedglock Left	N40168-04			
Wedglock Right	N40168-07			
Flange	N40168-03			
Cavity Plug	N11681	N11681	N40191-01	N37427
Terminals	9-94	1-8/95-102	48-49/54-55	43/60
Wire Gauge 20	G5900719			
Wire Gauge 18	G5900719			
Wire Gauge 16	N24006	N10273		
Wire Gauge 14	N24006	N10273		
Wire Gauge 12		N10273		
Wire Gauge 8			N30130	
Wire Gauge 6				N34577

Crimping tool
Deutsch HDT-48-00
 Wire Gauge 20-16-12



HDT-48-00

Crimping Tool
Deutsch HDT-04-08
 Wire Gauge 4-8



HDT-04-08

Male

Female

Cavity Plug

Cavity Plug

Seals

Seals

Terminals (Female)

Terminals (Male)

Connector	Cavities	Male*	Female*
Inline connector	1	12015791	12010996
Inline connector	2	12015792	12010973
Inline connector	3	12015793	12010717
Inline connector	4	12015797	12010974
Square connector	4	12015798	12015024
Inline connector	6	12015799	12010975
Cavity Seal	12010300		
Terminals	Female	Male	Seal
Wire Gauge 20	12020801	12089307	12015899
Wire gauge 18	12089188	12089040	12089679
Wire gauge 16	12124580	12124582	12010293
Wire gauge 14	12124580	12124582	12010293
Wire Gauge 12	12124581	12124587	12015193

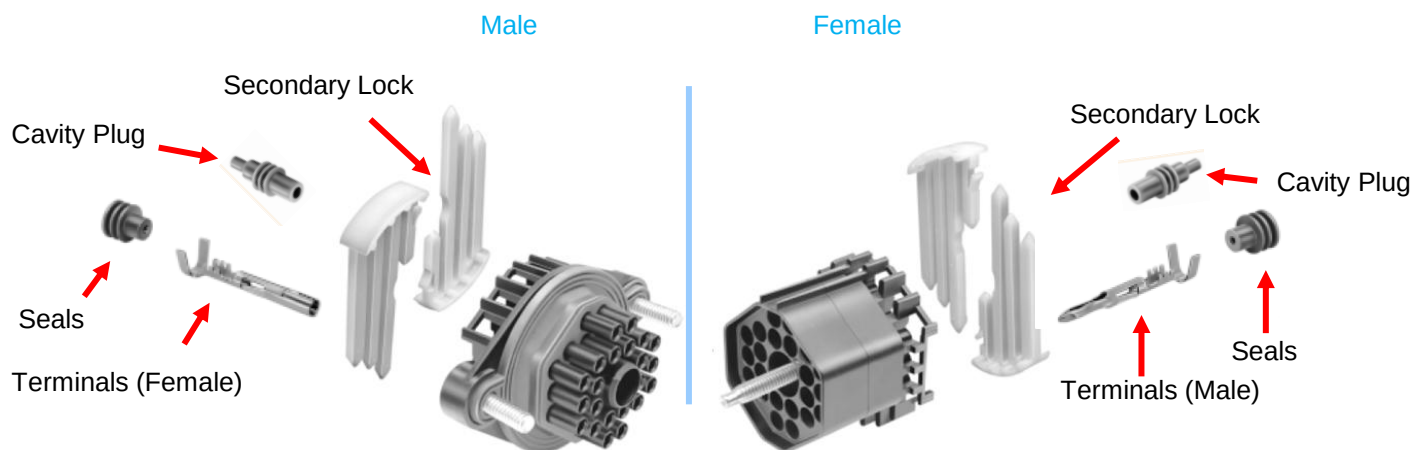
* Packard Delpfhi designation is opposite to Novabus for sex of weather-pack connectors

Crimping Tools 12014254



Extraction Tools 12014012



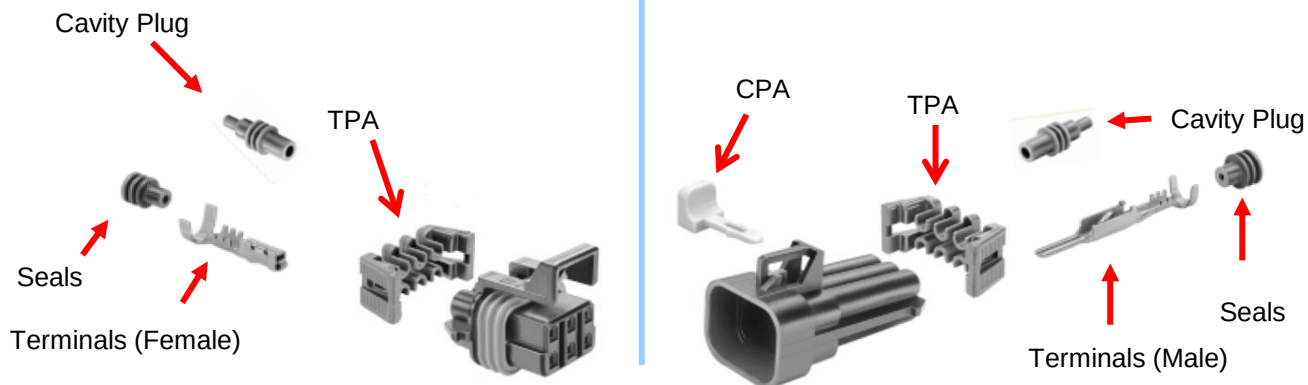


Connector	Cavities	Male*	Female*
Connector	22	12020991	12020005
Secondary Lock	12010852		
Cavity Seal	12010300		
Terminals	Female	Male	Seal
Wire Gauge 20	12020801	12089307	12015899
Wire gauge 18	12089188	12089040	12089679
Wire gauge 16	12124580	12124582	12010293
Wire gauge 14	12124580	12124582	12010293
Wire Gauge 12	12124581	12124587	12015193

* Packard Delphi designation is opposite to Novabus for sex of weather-pack connectors
 Crimping and extraction tools see page 13

Male

Female



Connector	Cavities	Male*	Female*	CPA
Connector	2	12052641	12162000	12020833
TPA		12052634	12052634	
Connector	6	12052848	12024107	12020833
TPA		12052850	12052850	
Connector	8	12047937	12047931	12020833
TPA		12066304	15324525	
Connector	10	12065425	12045808	
TPA		12124264	12124264	12020833
Connector	5	12084891	12186400	12020833
TPA	5	15324857	12084673	
Cavity Seal	12059168			
Terminals	Female	Male	Seal	
Wire Gauge 20	12084200	12077628	12048087	
Wire gauge 18	12048074	12045773	12089678	
Wire gauge 16	12048074	12045773	12048086	

* Packard Delphi designation is opposite to Novabus for sex of metri-pack connectors

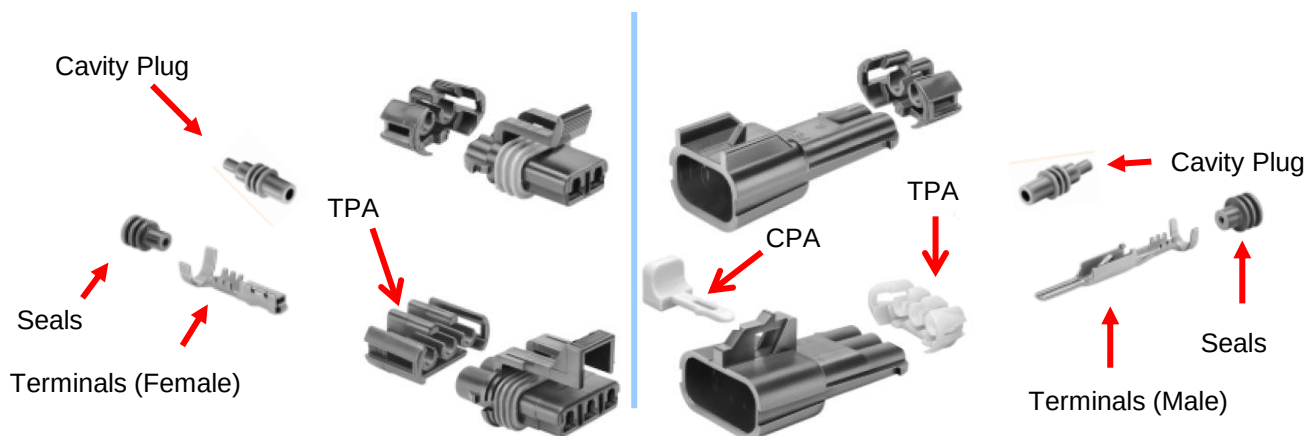
CPA (Connector position assurance)

TPA (Terminal position assurance)

Crimping and extraction tools see page 17

Male

Female



Connector	Cavities	Male*	Female*	CPA
Connector	1	12065172	12065171	12052834
TPA	1	12065249	16300002	
Connector	2	15300027	1530002	N/A
TPA	2	15300014	15300014	
Connector	3	12040977	15300003	12020833
TPA	3	12034145	15300015	
Connector	4	12129565	12129600	12020833
TPA	4	15300016	15324063	
Connector	5	12084891	12186400	12020833
TPA	5	15324857	12084673	
Cavity Seal	12010300			
Terminals	Female	Male	Seal	
Wire Gauge 20	12084201	12124977	12015899	
Wire gauge 18	12077411	12048159	12089679	
Wire gauge 16	12077411	12048159	12015323	
Wire gauge 14	12129493	12129497	12010293	
Wire Gauge 12	12129493	12129497	12010293	
Wire gauge 10	12077413	12048254	12015193	

* Packard Delphi designation is opposite to Novabus for sex of metri-pack connectors

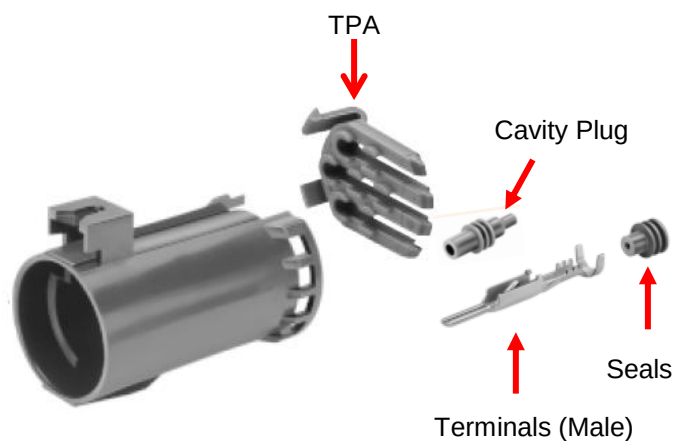
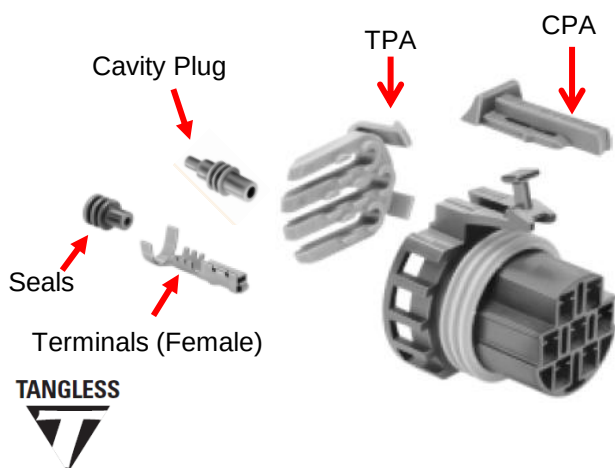
CPA (Connector position assurance)

TPA (Terminal position assurance)

Crimping and extraction tools see page 17

Male

Female



Connector	Cavities	Male*	Female*	CPA	TPA
Connector	7	12110751	12110753	12052834	12110754
Cavity Seal	12010300				
Terminals	Female	Male	Seal		
Wire gauge 20	12110846	12124977	12015899		
Wire gauge 18	12110847	12048159	12089679		
Wire gauge 16	12110847	12048159	12015323		
Wire gauge 14	12110845	12129497	12010293		
Wire gauge 12	12110845	12129497	12010293		
Wire gauge 10	12110853	12048254	12015193		

* Packard Delphi designation is opposite to Novabus for sex of metri-pack connectors

CPA (Connector position assurance)

TPA (Terminal position assurance)

Crimping Tools

12155975

12071687 (10 gauge wire)

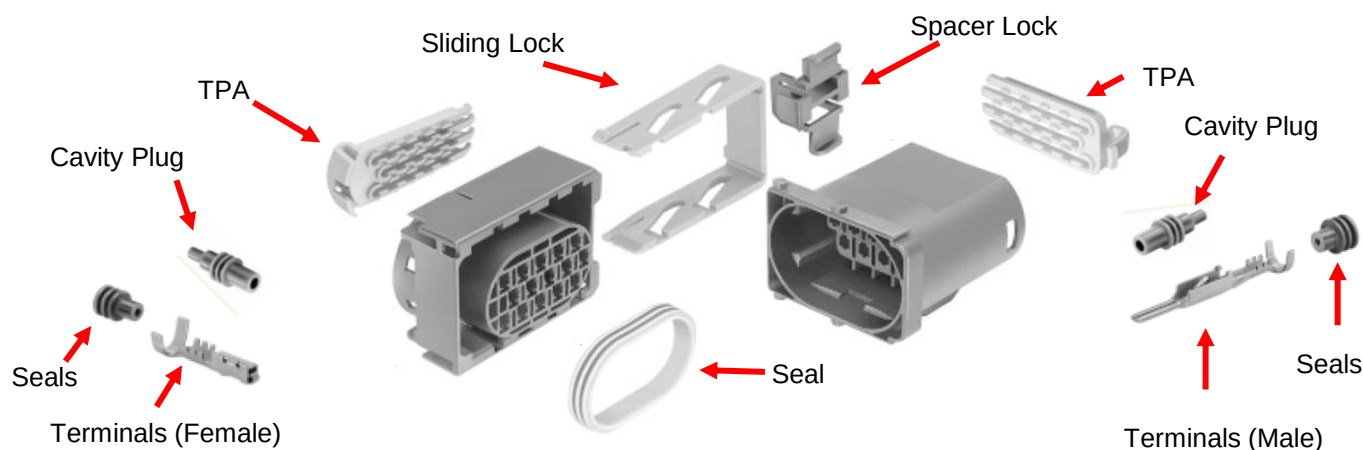


Extraction Tools

12094429

12094430

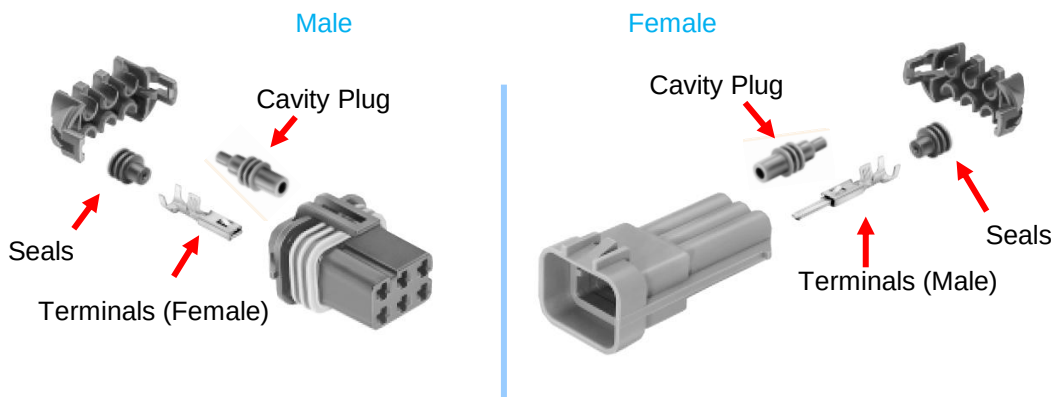




Connector	Male*	Female*	Cavities
Connector	12161186	12161187	15
TPA	12110782	12176865	
Sliding Lock	12161185		
Spacer Lock	12176640		
Seal	12110822		
Cavity Seal	12010300		
Terminals	Female	Male	Seal
Wire Gauge 20	12110846	12124977	12015899
Wire gauge 18	12110847	12048159	12089679
Wire gauge 16	12110847	12048159	12015323
Wire gauge 14	12110845	12129497	12010293
Wire Gauge 12	12110845	12129497	12010293
Wire gauge 10	12110853	12048254	12015193

* Packard Delphi designation is opposite to Novabus for sex of metri-pack connectors
 CPA (Connector position assurance)
 TPA (Terminal position assurance)
 Crimping and extraction tools see page 17

Electric Cooling Fans



Connector	Male*		Female*
	15344052		12185126
Cavity Seal	10730124		
Terminals	Female	Male	Seal
Wire gauge 16	12158098	12185129	12048086
Wire gauge 12	12185008	12158237	12048086

Circuit Breaker Box Connector (Bussman)

Connector (black)	N67160-01	
Connector (gray)	N67160-02	
Lock	N67160-05	
Cavity Seal	12010300	
Terminals	12129493	

Crimping Tools

12155975

12071687 (10 gauge wire)

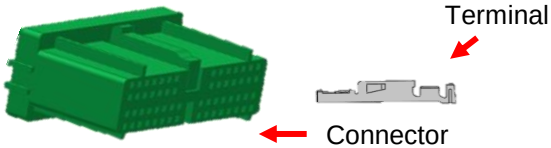


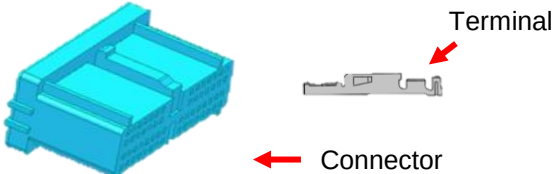
Extraction Tools

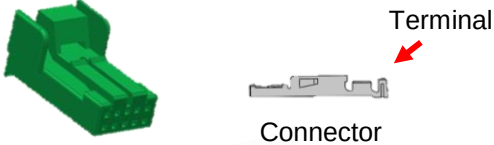
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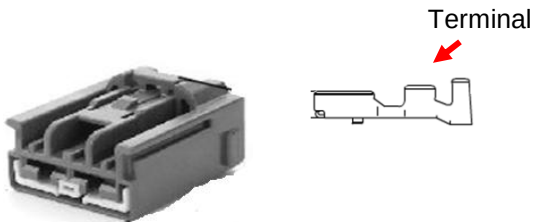


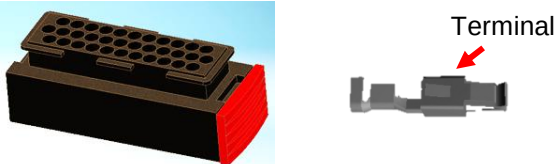
I/OA input/output connector (green)	N37232	
Terminal	N37229	

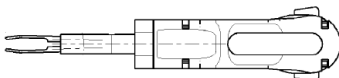
MCM input/output connector (blue)	N37233	
Terminal	N37229	

Communication connector (green)	N37228	
Terminal	N37229	

Crimping Tool Digi Key #670-2486-ND	
Extraction Tool Paper Clip	

Power connector I/OA and I/OB	N37226	
Terminal (20-16 ga)	N37227-01	
Terminal (14 ga)	N37227-02	
Terminal (12 ga)	N37227-03	
Terminal (10ga)	N37227-04	

I/OB input/output connector (black)	N37230	
Terminal (20-16 ga)	N37231-01	
Terminal (16-14 ga)	N37231-02	

Crimping Tool 06285847	
Extraction Tool 1-1579007-6 TE Connectivity http://www.te.com/en/home.html	

J1939-15 2 wire system. V-BEA B-BUS communication

Connector	N31800
Resistor	N35933-02
Lock (orange)	N31803
Lock (black)	N36869
Terminal	N27076
Splitter	N36843



J1939-11 2 wire system with drain

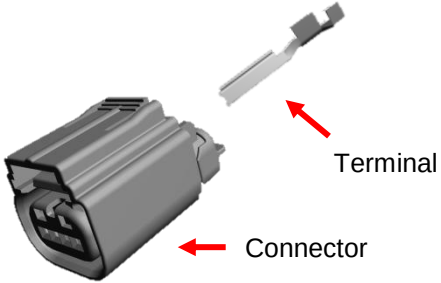
Connector	N31229-05
Resistor	N31229-08
Lock (orange)	N25892-03
Lock (blue)	N31232-02
Terminal	N31233-03
Terminal (drain)	N31233-02
Cavity plug	N11681
Splitter	N31229-01

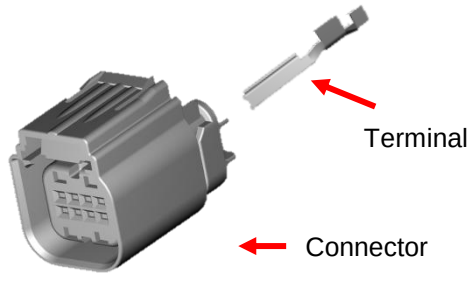


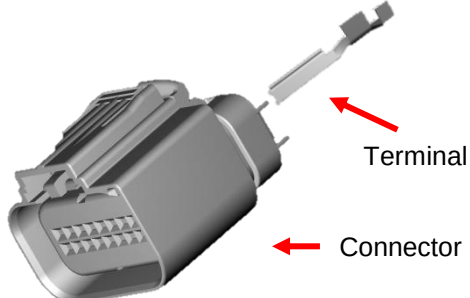
Crimping tool
Deutsch HDT-48-00
 Wire Gauge 20-16-12



HDT-48-00

Connector (1X4) Sealed	N36956-04	
Terminal	N36958	

Connector (2X4) Sealed	N36956-08	
Terminal	N36958	

Connector (2X8) Sealed	N36956-16	
Terminal	N36958	

