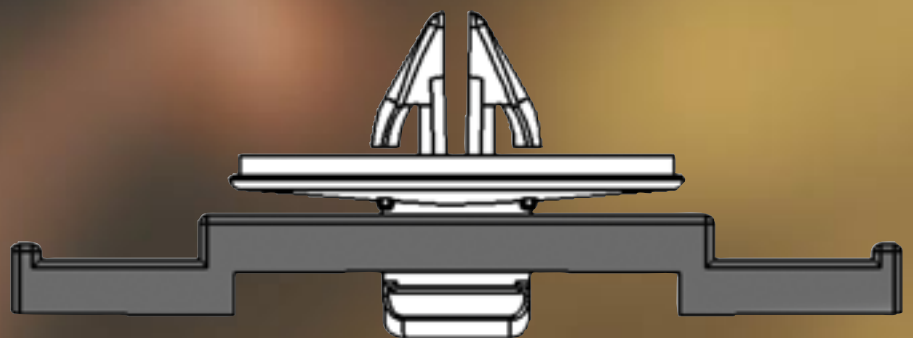
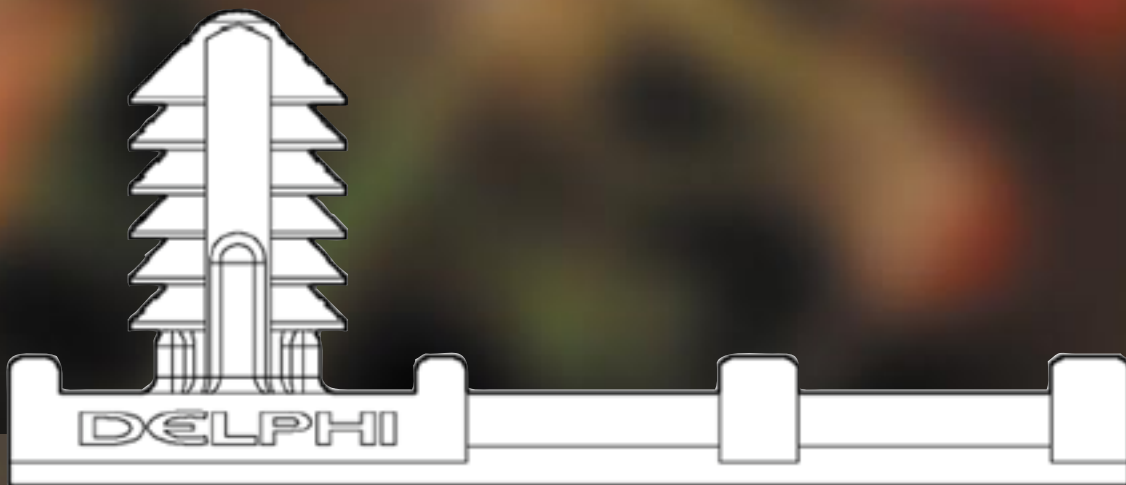


Clips, Clamps & Fixing Elements

(Selected Products)



DELPHI



Summary

- Fir tree clips
- Rosebud clips
- Clip assemblies
- Wire / FPC holder & wire tie clips
- Conduit clips
- Conduit clamps and assemblies
- Rosebud connector fixing
- Fir tree & connector fixing



Fir tree clips

Description

- Polypropylene and nylon tape-on clips

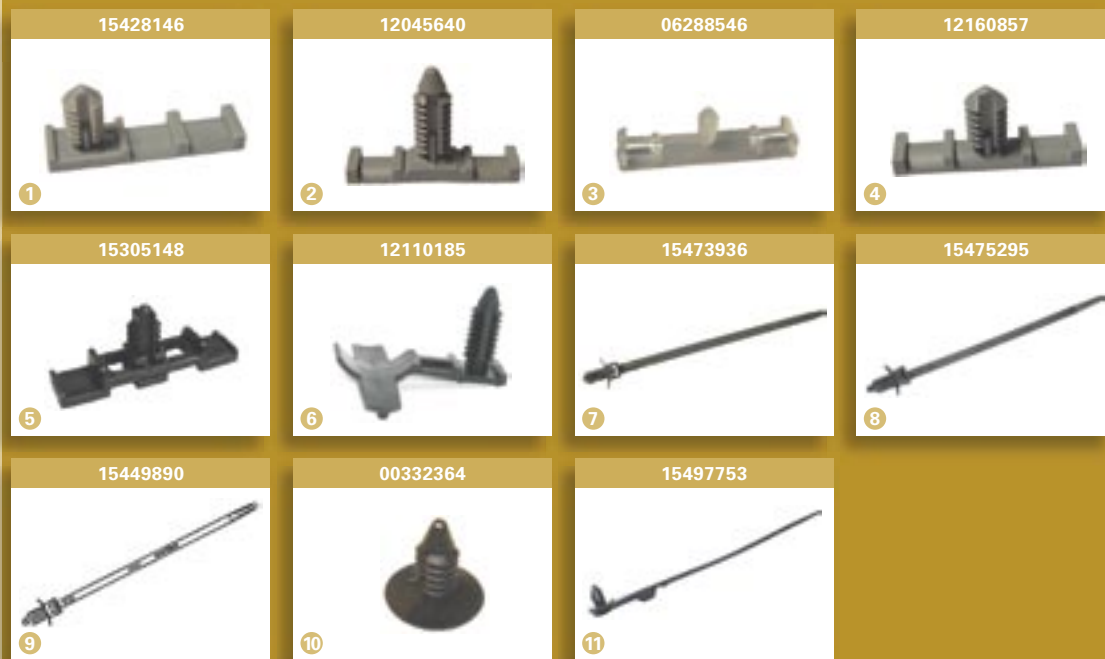
Typical applications

- Harness clips taped on to wire bundles or wire ties wrapped around conduit or bundle

Delphi advantages

- A clip for many applications can be found

Fig	Part number	Hole diameter (nominal)	Sheet metal thickness (max.)	Material	Color
1	15428146	6.35	4.6	Polypropylene	gray
2	12045640	6.35	12.5	Polypropylene	gray
3	06288546	3.57	4.5	Polypropylene	natural
4	12160857	6.35	5.0	Polypropylene	gray
5	15305148	6.35	2.0	Nylon 66	black
6	12110185	6.63	3.8	Polypropylene	black
7	15473936	6.3	6.3	Nylon 66	dark gray
8	15475295	7.00	6.3	Nylon 66	dark gray
9	15449890	6.65	6.3	Nylon 66	black
10	00332364	6.35	6.0	Nylon 66	black
11	15497753	6.3	6.3	Nylon 66	gray



Rosebud clips

Description

- Polypropylene and nylon tape-on clips

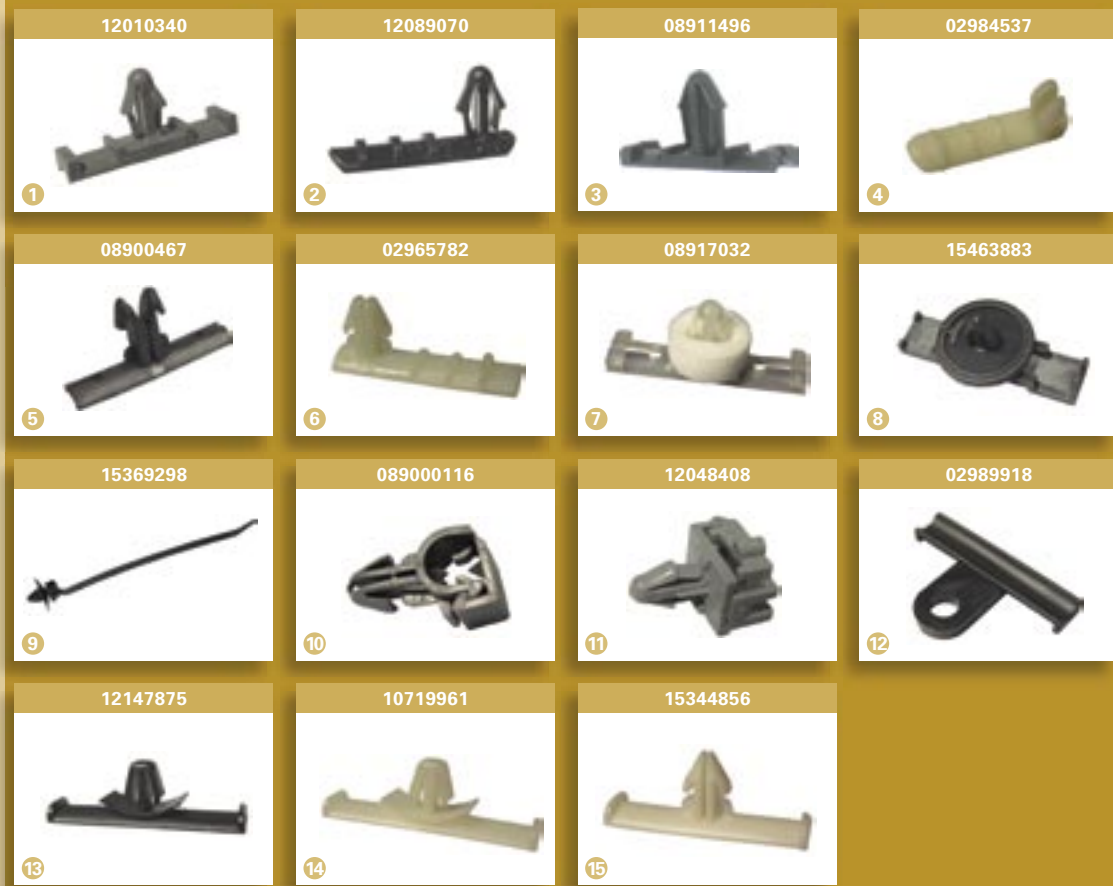
Typical applications

- Harness clips taped on to wire bundles or wire ties wrapped around conduit or bundle

Delphi advantages

- A clip for many applications can be found

Fig	Part number	Hole diameter (nominal)	Sheet metal thickness (max.)	Material	Color
1	12010340	6.35	3.8	Polypropylene	gray
2	12089070	6.35	3.8	Polypropylene	black
3	08911496	7.34	6.4	Polypropylene	black
4	02984537	6.35	2.3	Nylon 66	natural
5	08900467	8.00	7.6	Nylon 66	black
6	02965782	6.35	2.3	Nylon 66	natural
7	08917032	6.35	3.8	Polypropylene	natural
8	15463883	6.35	1.2	Nylon 66	black
9	15369298	6.3	1.5	Nylon 66	black
10	08900116	6.35	3.3	Polypropylene	gray
11	12048408	6.35	3.8	Polypropylene	gray
12	02989918	6.35 Stud/Bolt size		Polypropylene	black
13	12147875	6.3	0.9 - 2.3	Nylon 66	black
14	10719961	6.35	0.9 - 2.3	Nylon 66	natural
15	15344856	6.35	0.9 - 2.3	Nylon 66	natural



Clip assemblies

Description

- Polypropylene and nylon tape-on clips

Typical applications

- Harness clips taped on to wire bundles or wire ties wrapped around conduit or bundle

Delphi advantages

- A clip for many applications can be found

Fig	Part number	Sheet metal thickness (max.)	Material	Color
1	12020395	0.8 - 1.8	Nylon 66	medium gray
2	06288468	0.8 - 1.8	Nylon 66	natural
3	12020842	0.8 - 1.8	Nylon 66	medium gray

12020395



06288468



12020842



Wire / FPC holder & wire tie clips

Description

- Polypropylene and nylon tape-on clips

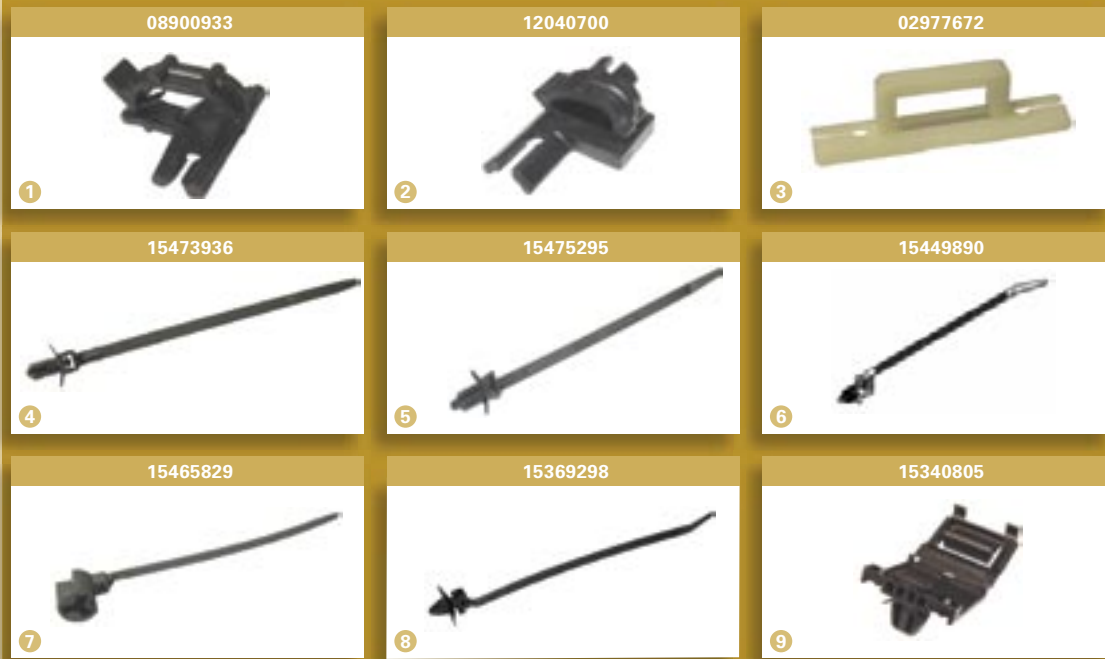
Typical applications

- Harness clips taped on to wire bundles or wire ties wrapped around conduit or bundle

Delphi advantages

- A clip for many applications can be found

Fig	Part number	Hole diameter (nominal)	Sheet metal thickness (max.)	Material	Color
1	08900933			Polypropylene	black
2	12040700			Polypropylene	black
3	02977672			Nylon 66	natural
4	15473936	6.3	6.3	Nylon 66	dark gray
5	15475295	7.0	6.3	Nylon 66	dark gray
6	15449890		6.3	Nylon 66	black
7	15465829			Nylon 66	dark gray
8	15369298	6.3	1.5	Nylon 66	black
9	15340805	6.3 x 10	1.6	Nylon 66	black



Conduit clips

Description

- Polypropylene and nylon conduit clips

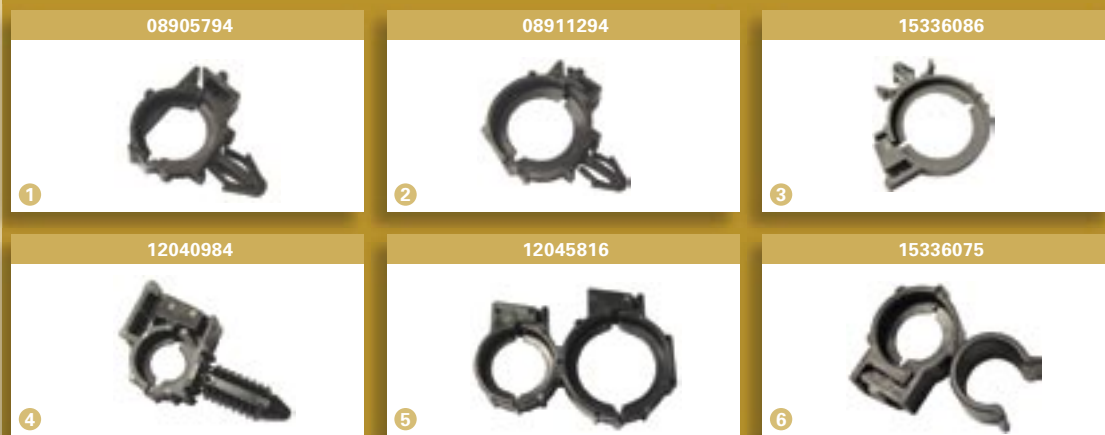
Typical applications

- Used on conduit coverings for wiring harnesses

Delphi advantages

- A clip for many applications can be found

Fig	Part number	Conduit size	Hole diameter (nominal)	Sheet metal thickness (max.)	Material	Color
1	08905794	10 or 13	6.35	3.8	Polypropylene	black
2	08911294	16	6.35	3.8	Polypropylene	black
3	15336086	25	6.35	3.8	Polypropylene	natural
4	12040984	6	6.35	12.5	Polypropylene	dark gray
5	12045816	10 and 16			Polypropylene	dark gray
6	15336075	9 and 12.7 Tubing			Nylon 66	black



Conduit clamps and assemblies

Description

- Polypropylene and nylon conduit clips

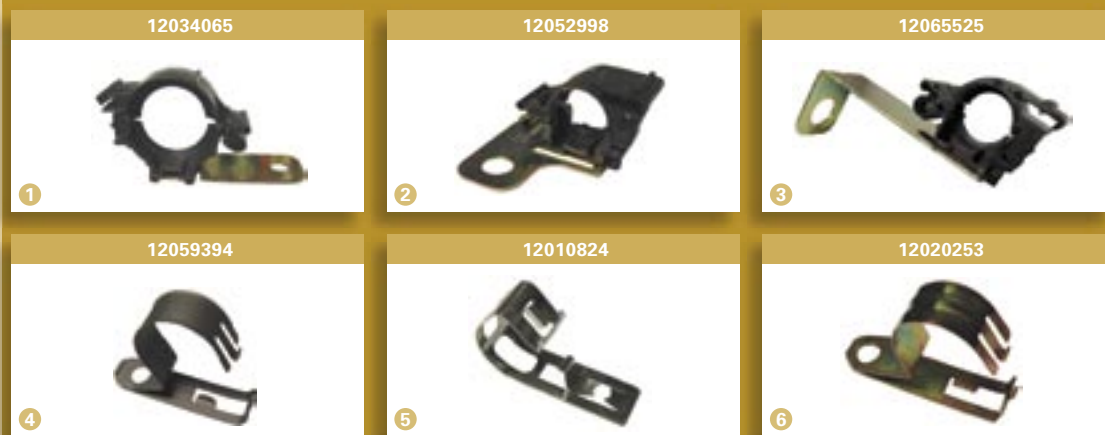
Typical applications

- Used on conduit coverings for wiring harnesses

Delphi advantages

- A clip for many applications can be found

Fig	Part number	Conduit size	Stud/Hole size (nominal)	Mounting feature spacing	Material	Color
1	12034065	22	M6	40.5	Nylon 66/ Zinc Chromate	black
2	12052998	13	M8	16.9	Nylon 66/ Zinc Chromate	black
3	12065525	13	M10	50	Nylon 66/ Zinc Chromate	black
4	12059394	25	M10	34.6	Zinc Chromate	dark gray
5	12010824	13	M6	25.4	Phosphate Oil	
6	12020253	22	M10	41.7	Zinc Chromate	



Rosebud connector fixing

Description

- Connector sheet metal fixing

Typical applications

- GT, Ducon, MP and other connector family fixings

Delphi advantages

- Fixing for all main Delphi connector families

Fig	Part number	Hole diameter (nominal)	Sheet metal thickness (max.)	Material	Color
1	15427170	8 x 15	0.8 - 2.8	PA 66	black
2	15439875	6.3	0.7 - 2.5	PA 66	black
3	10717452	6.3	1.0 - 2.1	PA 66	black
4	08905563	6.3	3.8	PP IM	black
5	12084561	6.3	3.8	PA 66 HS IM	medium grey
6	12110290	6.3	3.8	PA 66 HS IM	medium grey
7	12110517	6.35	3.8	PA 66	black
8	15358672	6.3	3.8	PP IM	black
9	15401328	8.5 x 16	0.7 - 3.0	PP HS IM	medium grey
10	12047835	6.1 - 7.0	8.0	PA 66 HS IM	black
11	12186353	max 6.63	8.0	PA 66 HS IM	black
12	15326712	max 6.35	4.0	PA 66 HS IM	black



Fir tree & connector fixing

Description

- Connector sheet metal fixing & connector carrier

Typical applications

- GT, Ducon, MP, and other connector family fixings and hang on

Delphi advantages

- Fixing for all main Delphi connector families

Fig	Part number	Hole diameter (nominal)	Sheet metal thickness (max.)	Material	Color
1	12110783	max 6.35	8.0	PA 66 HS IM	black
2	15358639	max 6.35	4.0	PA 66 HS IM	medium grey
3	15326413	max 6.35	2.0	PP IM	black
4	15336544	max 6.35	3.8	PP	black
5	12129271	max 6.25		PP mod	light grey
6	15355593	8 x 15	2.0	PA 66 HS IM	black
7	12185083	8 x 15	0.8	Nylon 6 GF15	black
8	10726669	Hang On	--	Nylon 6	black
9	10719968	Hang On	--	Nylon 6	black
10	10718048	6.3	1.5	Nylon 6	black
11	10720007	Tube Ø 15		Nylon 66	black



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