# Metri-Pack Series
280

UNSEALED

Available in device and in-line connections for vehicle applications, Metri-Pack 280 Series connectors can meet or exceed the requirements for most marine, appliance, and industrial control applications.

Ideally suited for limited space applications that do not require environmental protection, Metri-Pack 280 Series products are extremely versatile.

SEALED

Available in device and in-line connections for underhood vehicle applications, Metri-Pack 280 Series sealed connectors can meet or exceed the requirements for most marine, appliance, and industrial control applications.

Utilizing triple-rib peripheral silicone rubber seals, Metri-Pack 280 Series sealed systems are ideally suited for critical, low-energy electronic applications that require protection from environmental hazards.
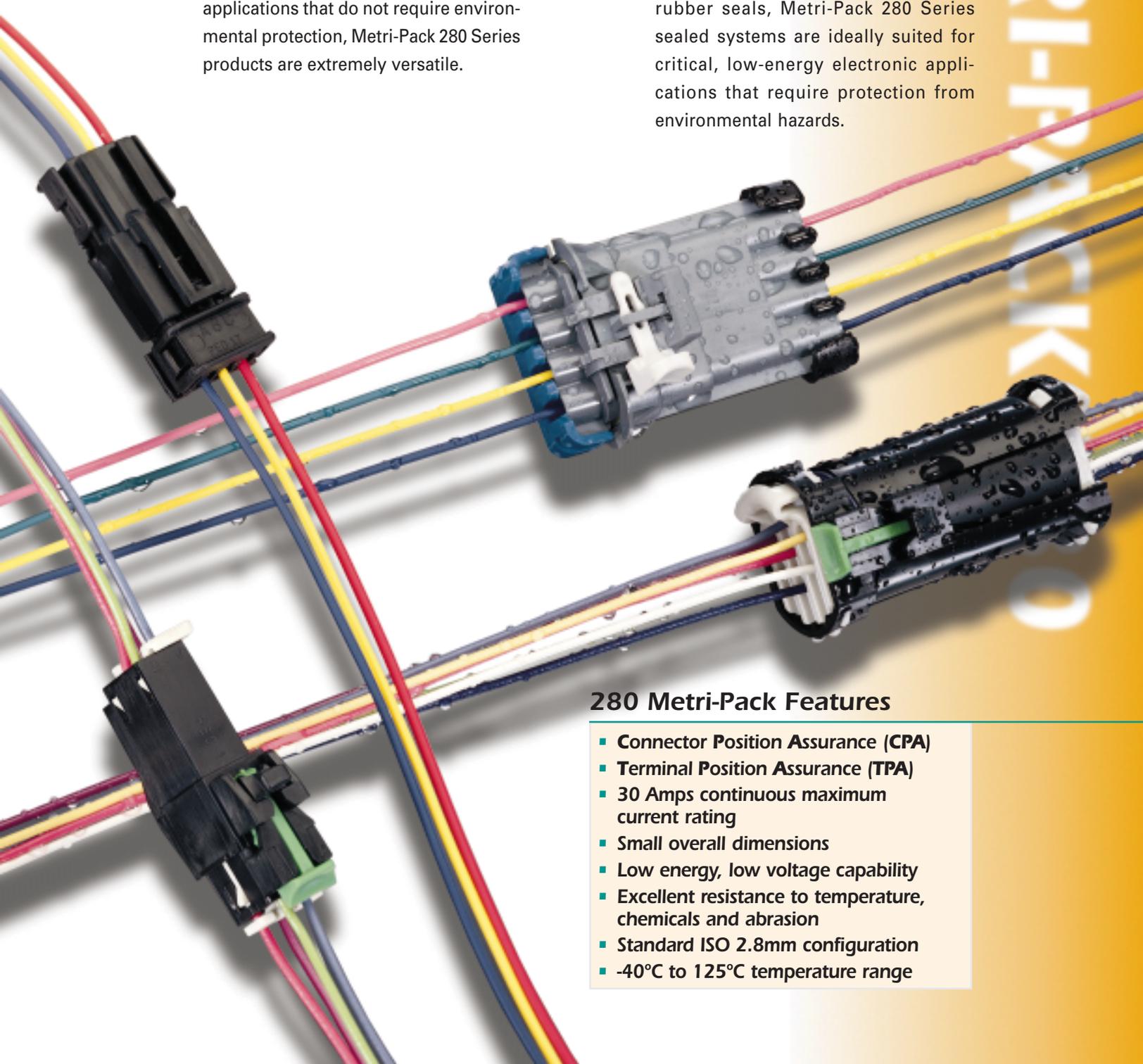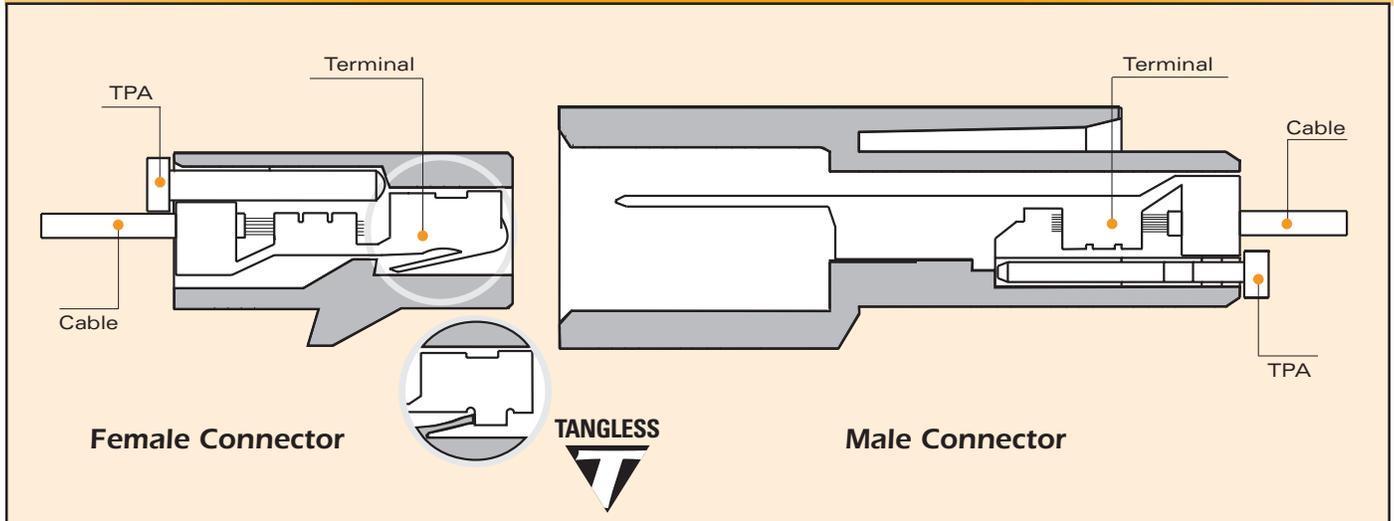
280 Metri-Pack Features

- **Connector Position Assurance (CPA)**
- **Terminal Position Assurance (TPA)**
- **30 Amps continuous maximum current rating**
- **Small overall dimensions**
- **Low energy, low voltage capability**
- **Excellent resistance to temperature, chemicals and abrasion**
- **Standard ISO 2.8mm configuration**
- **-40°C to 125°C temperature range**

UNSEALED

Cross Sectional View

TPA

Terminal

Terminal

Cable

Cable

TPA

Female Connector

TANGLESS

Male Connector

TPA
(Terminal Position
Assurance)

CPA
(Connector Position
Assurance)

Tangless Female
Terminal

Female Connector

TANGLESS

280 TANGLESS FEMALE TERMINALS UNSEALED

Part #	Cable Range (mm²)	Material	Plating
12129425	5.0	Tin Brass	Tin
12129663	3.0	Tin Brass	Tin
12129424	2.0-1.0	Tin Brass	Tin
12110842*	3.0-2.0	Tin Brass	Tin
12110844*	1.0-0.80	Tin Brass	Tin
12110843*	0.50-0.35	Tin Brass	Tin
12129061*	0.35 (2 Req'd.)	Tin Brass	Tin

*Thin Stock—Electrical current restrictions apply, contact your regional support representative at the number listed below.
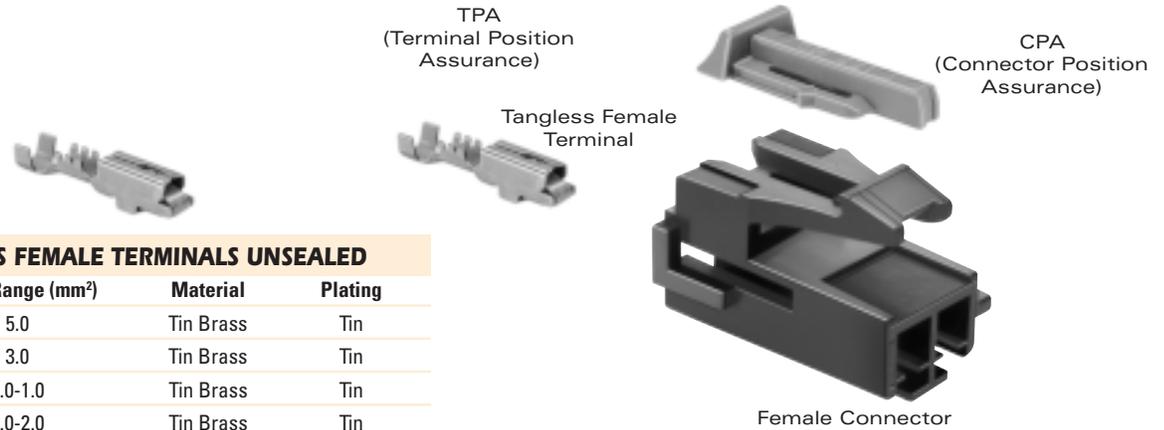
280 FEMALE TERMINALS UNSEALED

Part #	Cable Range (mm²)	Material	Plating
12015858	5.0	Tin Brass	Tin
12129494	3.0-2.0	Tin Brass	Tin
12066214	2.0-1.0	Tin Brass	Tin
12034046	1.0-0.80	Tin Brass	Tin
12052217	0.50-0.35	Tin Brass	Tin
12162597*	3.0-2.0	Tin Brass	Tin
12162595*	1.0-0.80	Tin Brass	Tin
12162596*	0.50-0.35	Tin Brass	Tin

*Thin Stock—Electrical current restrictions apply, contact your regional support representative at the number listed below.

TANGLESS

280 FLEXLOCK FEMALE CONNECTORS UNSEALED

# Cavities	Connector	Color	Material	TPA
2	12129081	Black	PA66 HS IM	12129083
3	12129489	Black	PA66 HS IM	12129491
4	12129136	Black	PA66 HS IM	12129138

280 FEMALE CONNECTORS UNSEALED

# Cavities	Connector	Color	Material	TPA
6	12064752	Black	PA66 HS IM	12064753
8	12064998	Black	PBT	12064999

http://delphi.com/products/connect

North American Region
1-800-PACKARD

European Region
49-202-291-2000

Asia Pacific Region
65-730-9900

South American Region
55-12-378-2002

Unsealed System Application Information

280 SERIES TERMINALS – Tin Plated

CABLE RANGE (mm²): **0.35-5.0**

CURRENT RANGE (AMPS): **0-30**

TEMP RANGE °C: .... **-40 to 125**

RESISTANCE: ...... **<10mΩ@20mV**

VOLTAGE DROP: ...... **<3.0mV/amp**

**CENTERLINE SPACING (mm):** **5.0**

BLADE WIDTH (mm): **2.8**
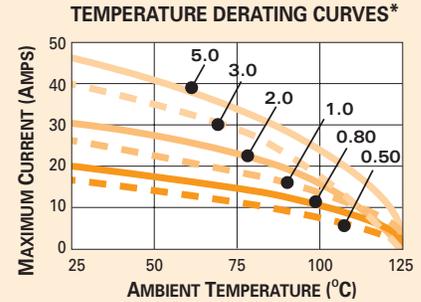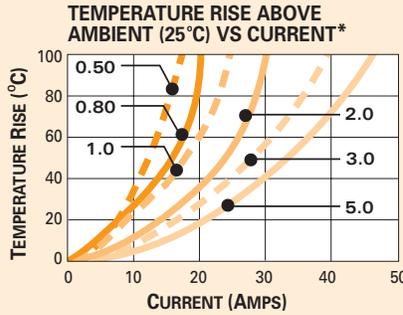
TEMPERATURE RISE ABOVE AMBIENT (25°C) VS CURRENT*

TEMPERATURE DERATING CURVES*

*The test data are based on single circuits in free space and were generated using a "Lumped Resistance" model. This model does not account for all of the variables that would be present in an actual application. For actual product performance, contact your regional support representative at the number listed below.
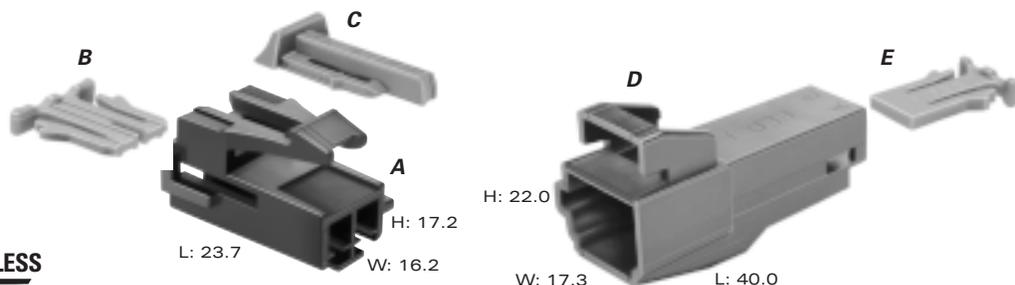
Male Terminal

TPA (Terminal Position Assurance)

Male Connector
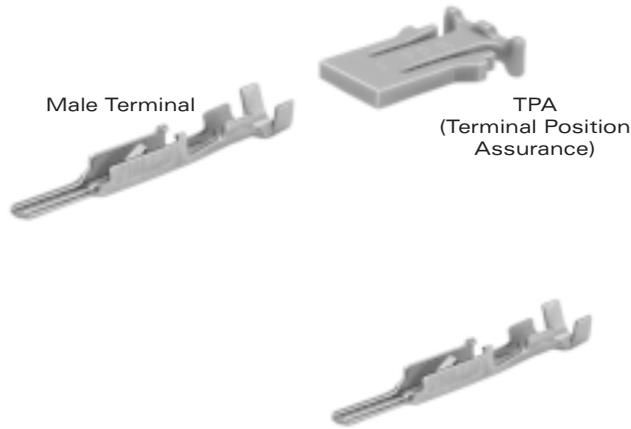
280 MALE TERMINALS UNSEALED

Part #	Cable Range (mm²)	Material	Plating
12084586	5.0	Tin Brass	Tin
12129498	3.0-2.0	Tin Brass	Tin
12020116	2.0-1.0	Tin Brass	Tin
12034047	1.0-0.80	Tin Brass	Tin
12066271	0.50-0.35	Tin Brass	Tin
12020782	0.35 (2 Req'd.)	Tin Brass	Tin

280 MALE CONNECTORS UNSEALED

# Cavities	Connector	Color	Material	TPA
2	12129155	Black	PA66 HS IM	12129157
3	12129490	Black	PA66 HS IM	12129492
4	12129135	Black	PA66 HS IM	12129137
6	12064754	Black	PA6	12064755
8	12066195	Black	PBT	12065141

SECTION NOTES:

Contact your regional support representative at the number listed below.
- Due to rigid tolerances of connector cavities, it is critical to meet all crimp dimensions as specified.
- Different color and connector indexing features are also available.
- Female connections for device applications, see page 91.

http://delphi.com/products/connect

North American Region	European Region	Asia Pacific Region	South American Region	79
1-800-PACKARD	49-202-291-2000	65-730-9900	55-12-378-2002	

UNSEALED

TANGLESS

C

B

A

H: 17.2
L: 23.7
W: 16.2

D

E

H: 22.0
W: 17.3
L: 40.0

Total Mated Length: 54.3mm

A PART NO: **12129081 (Black)**
12129082 (Md. Gray)
DESCRIPTION: Connector 2F
SIZE: 23.7L x 17.2H x 16.2W
MATERIAL: PA66 HS IM
TERMINALS: See Page 78

B PART NO: **12129083**
DESCRIPTION: TPA
COLOR: Lt. Gray
MATERIAL: PA66 HS IM

C PART NO: **12052834**
DESCRIPTION: CPA
COLOR: Green
MATERIAL: PP

D PART NO: **12129155 (Black)**
12129156 (Md. Gray)
DESCRIPTION: Connector 2M (Clip Slot–Self Locking)
SIZE: 40.0L x 22.0H x 17.3W
MATERIAL: PA66 HS IM
TERMINALS: See Page 79

E PART NO: **12129157**
DESCRIPTION: TPA
COLOR: Lt. Gray
MATERIAL: PA66 HS IM

F

H

H: 10.5
L: 23.0
W: 14.5

G

H: 14.3
W: 16.4
L: 40.0

J
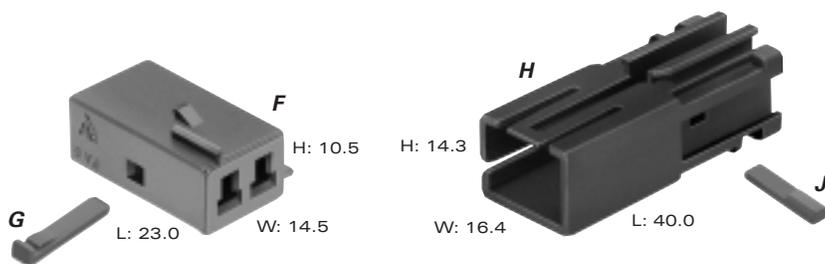
Total Mated Length: 49.3mm

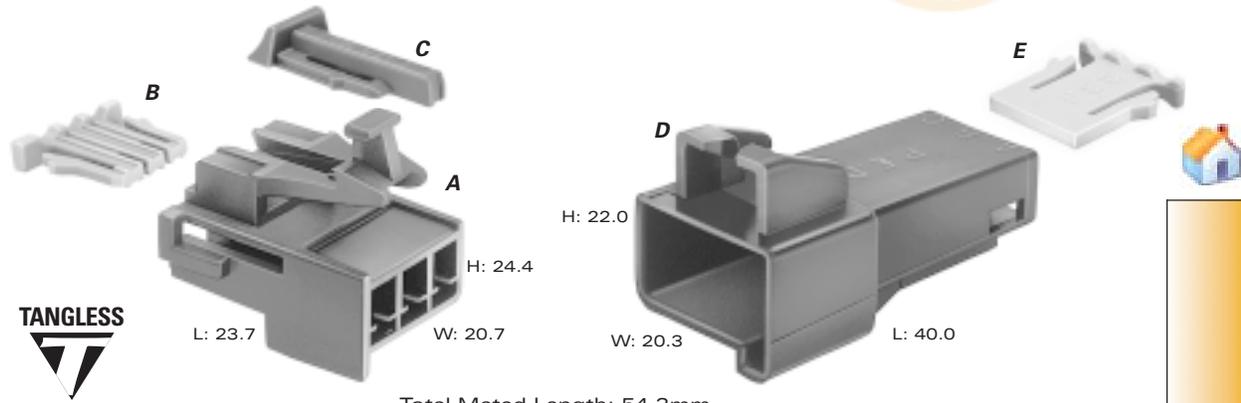**F** PART NO: **12147503 (Black)**
12111456 (Green)
DESCRIPTION: Connector 2F
SIZE: 23.0L x 10.5H x 14.5W
MATERIAL: PA6
TERMINALS: See Page 78

G PART NO: **12147502**
DESCRIPTION: TPA
COLOR: Gray
MATERIAL: PA6 % GF

H PART NO: **12147517 (Black)**
10717650 (Green)
DESCRIPTION: Connector 2M
SIZE: 40.0L x 14.3H x 16.4W
MATERIAL: PA6
TERMINALS: See Page 79

J PART NO: **12147771**
DESCRIPTION: TPA
COLOR: Gray
MATERIAL: PA6 % GF

http://delphi.com/products/connect

North American Region	European Region	Asia Pacific Region	South American Region
1-800-PACKARD	**49-202-291-2000**	**65-730-9900**	**55-12-378-2002**

TANGLESS

H: 24.4

L: 23.7

W: 20.7

B

C

A

H: 22.0

D

E

W: 20.3
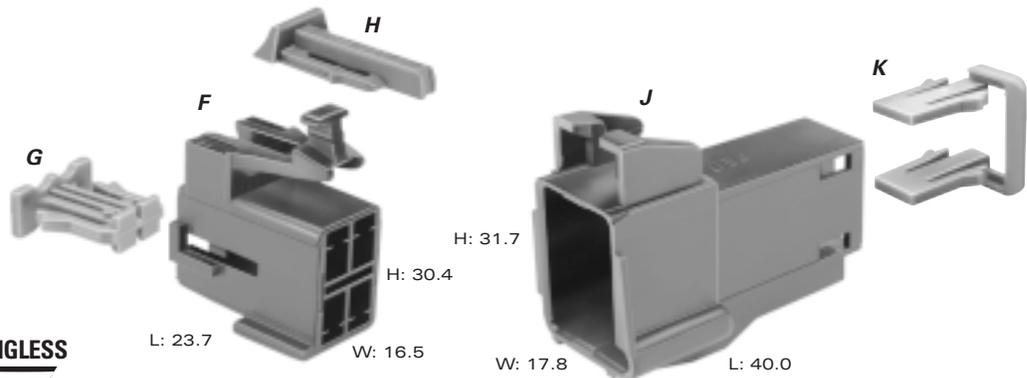
L: 40.0

Total Mated Length: 54.3mm

A PART NO: **12129489**
DESCRIPTION: Connector 3F
SIZE: 23.7L x 24.4H x 20.7W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 78

B PART NO: **12129491**
DESCRIPTION: TPA
COLOR: Lt. Gray
MATERIAL: PA66 HS IM

C PART NO: **12052834**
DESCRIPTION: CPA
COLOR: Green
MATERIAL: PP

D PART NO: **12129490**
DESCRIPTION: Connector 3M
SIZE: 40.0L x 22.0H x 20.3W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 79

E PART NO: **12129492**
DESCRIPTION: TPA
COLOR: Lt. Gray
MATERIAL: PA66 HS IM

H

F

G

TANGLESS

L: 23.7

H: 30.4

W: 16.5

H: 31.7

J

K

W: 17.8

L: 40.0

Total Mated Length: 54.0mm

F PART NO: **12129136**
DESCRIPTION: Connector 4F
SIZE: 23.7L x 30.4H x 16.5W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 78

G PART NO: **12129138**
DESCRIPTION: TPA
COLOR: Lt. Gray
MATERIAL: PA66 HS IM

H PART NO: **12052834**
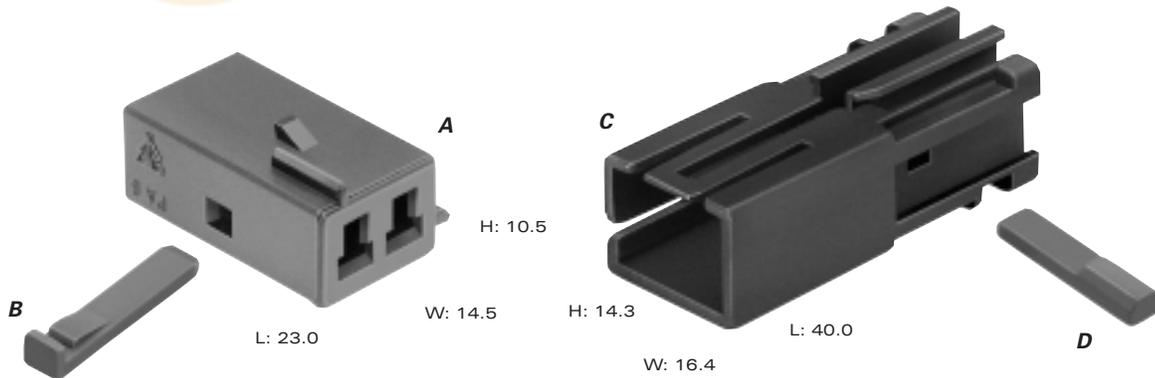DESCRIPTION: CPA
COLOR: Green
MATERIAL: PP

J PART NO: **12129135**
DESCRIPTION: Connector 4M (Clip Slot–Self Locking)
SIZE: 40.0L x 31.7H x 17.8W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 79

K PART NO: **12129137**
DESCRIPTION: TPA
COLOR: Lt. Gray
MATERIAL: PA66 HS IM

http://delphi.com/products/connect

UNSEALED

H: 10.5
A
W: 14.5
B
L: 23.0

C
H: 14.3
L: 40.0
W: 16.4
D

Total Mated Length: 50.0mm

A PART NO: **15318080**
DESCRIPTION: Connector 2F
SIZE: 23.0L x 10.5H x 14.5W
COLOR: Black
MATERIAL: PA6
TERMINALS: See Page 78

B PART NO: **12147502**
DESCRIPTION: Secondary Lock
SIZE.: 2.6L x 2.3H x 12.6W
COLOR: Gray
MATERIAL: PA6%GF

C PART NO: **12147517**
DESCRIPTION: Connector 2M
SIZE: 40.0L x 14.3H x 16.4W
COLOR: Black
MATERIAL: PA6
TERMINALS: See Page 79

D PART NO: **12147771**
DESCRIPTION: Secondary Lock
SIZE.: 2.7L x 2.2H x 11.8W
COLOR: Gray
MATERIAL: PA6%GF

F
F
G
F
E
H: 26.6
L: 23.0
W: 20.6

J
J
H
H: 29.1
W: 23.5
L: 40.0
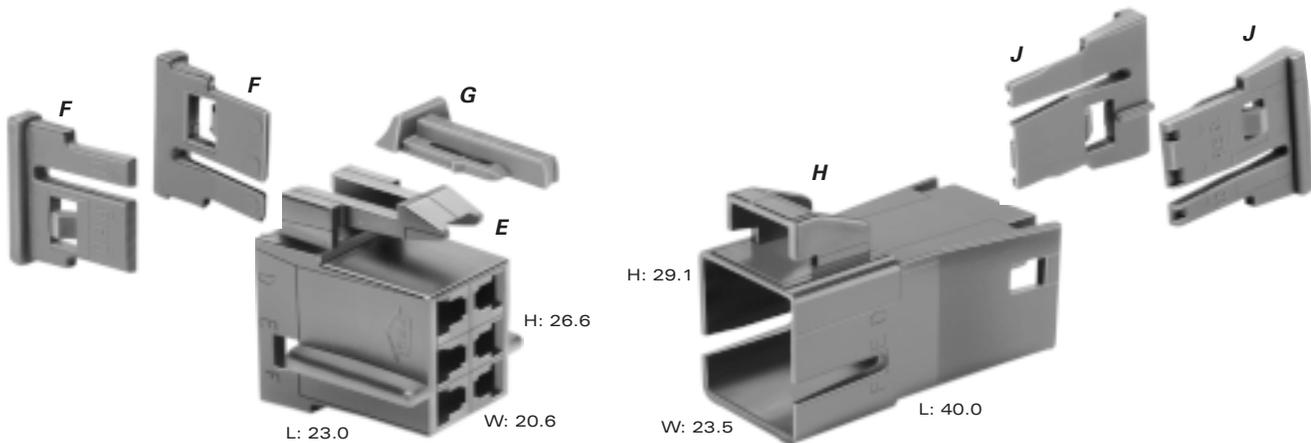
Total Mated Length: 57.0mm

E PART NO: **12064752**
DESCRIPTION: Connector 6F
SIZE: 23.0L x 26.6H x 20.6W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 78

F PART NO: **12064753**
DESCRIPTION: TPA
NUMBER REQ.: 2
COLOR: Md. Gray
MATERIAL: PA66 HS IM

G PART NO: **12052834**
DESCRIPTION: CPA
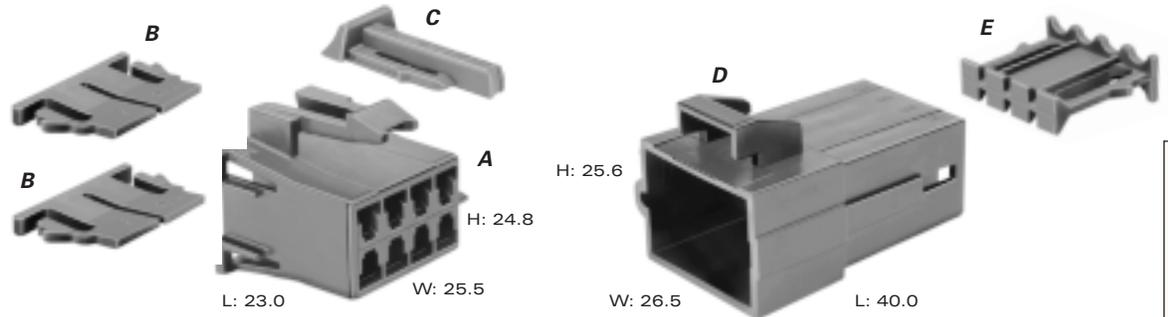COLOR: Green
MATERIAL: PP

H PART NO: **12064754**
DESCRIPTION: Connector 6M (Clip Slot–Self Locking)
SIZE: 40.0L x 29.1H x 23.5W
COLOR: Black
MATERIAL: PA6
TERMINALS: See Page 79

J PART NO: **12064755**
DESCRIPTION: TPA
NUMBER REQ.: 2
COLOR: Blue
MATERIAL: PA66 HS IM

http://delphi.com/products/connect

82

North American Region	European Region	Asia Pacific Region	South American Region
1-800-PACKARD	49-202-291-2000	65-730-9900	55-12-378-2002

B

B

C

A

H: 24.8

L: 23.0   W: 25.5

D

E

H: 25.6

W: 26.5   L: 40.0

Total Mated Length: 54.0mm

A PART NO: **12064998**
DESCRIPTION: Connector 8F
SIZE: 23.0L x 24.8H x 25.5W
COLOR: Black
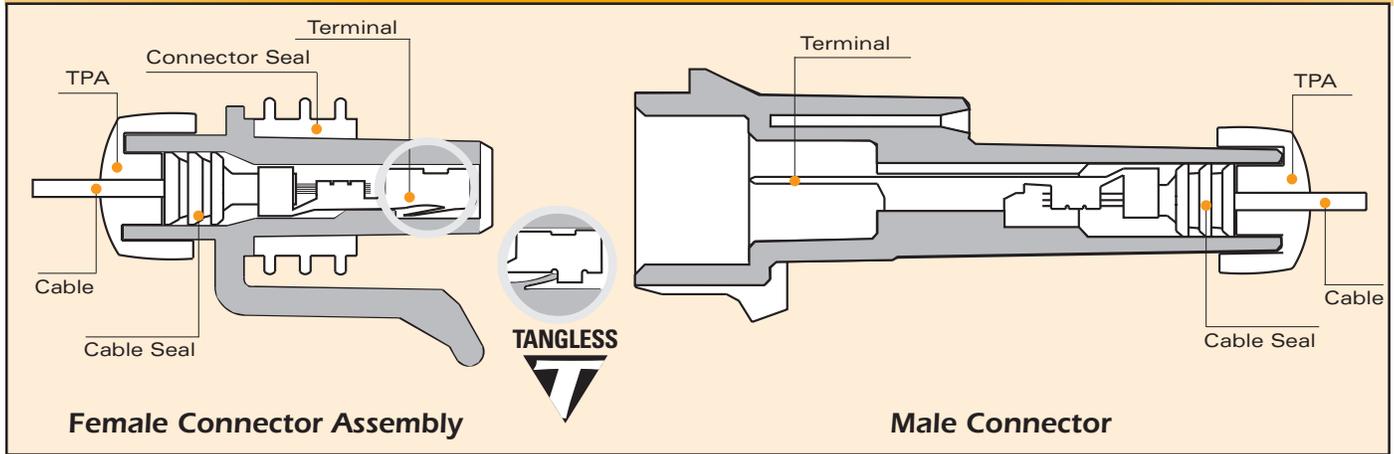MATERIAL: PA66 HS IM
TERMINALS: See Page 78

B PART NO: **12064999**
DESCRIPTION: TPA
NUMBER REQ.: 2
COLOR: Blue
MATERIAL: PBT

C PART NO: **12052834**
DESCRIPTION: CPA
COLOR: Green
MATERIAL: PP

D PART NO: **12066195**
DESCRIPTION: Connector 8M (Clip Slot)
SIZE: 40.0L x 25.6H x 26.5W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 79

E PART NO: **12065141**
DESCRIPTION: TPA
COLOR: Md. Gray
MATERIAL: PA66 HS IM

http://delphi.com/products/connect

| North American Region | European Region | Asia Pacific Region | South American Region | 83 |
| 1-800-PACKARD | 49-202-291-2000 | 65-730-9900 | 55-12-378-2002 | |

SEALED SEALED

Cross Sectional View

TPA
Connector Seal
Terminal
Cable
Cable Seal

Terminal
TPA
Cable
Cable Seal

TANGLESS

Female Connector Assembly

Male Connector

TPA
(Terminal Position
Assurance)

CPA
(Connector Position
Assurance)

Cable
Seal

Female Terminal

Female Connector
Assembly

TANGLESS

280 TANGLESS FEMALE TERMINALS SEALED

Part #	Cable Range (mm²)	Material	Plating
12110853	5.0-3.0	Tin Brass	Tin
12129409	2.0-1.0	Tin Brass	Tin
12110845*	3.0-2.0	Tin Brass	Tin
12110847*	1.0-0.80	Tin Brass	Tin
12110846*	0.50-0.35	Tin Brass	Tin

*Thin Stock—Electrical current restrictions apply, contact your regional support representative at the number listed below.

TANGLESS

280 FLEXLOCK FEMALE CONNECTOR ASSEMBLIES SEALED

# Cavities	Conn. Asm.	Color	Material	TPA
7	12110751	Black	PA66 HS IM	12110754
15	12161186	Black	PA66 HS IM	12176865
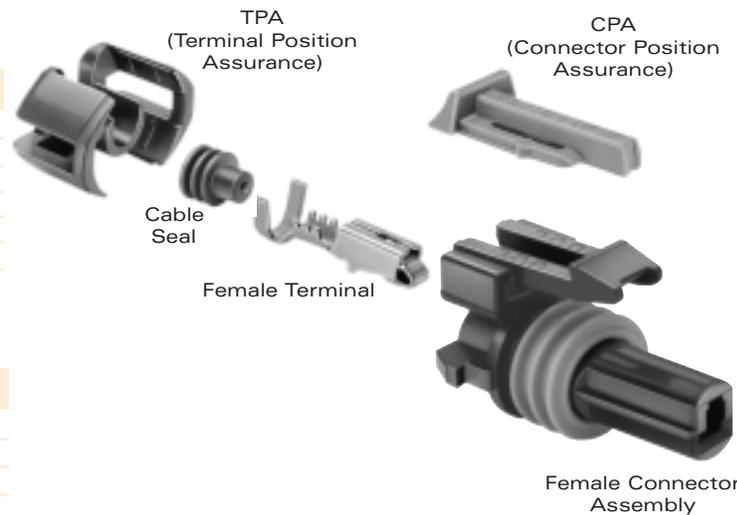
280 FEMALE TERMINALS SEALED

Part #	Cable Range (mm²)	Material	Plating
12077413	5.0	Tin Brass	Tin
12129493	3.0-2.0	Tin Brass	Tin
12077411	1.0-0.80	Tin Brass	Tin
12084201	0.50-0.35	Tin Brass	Tin
12176387	5.0	Beryllium Copper	Silver/Nickel
12176388	3.0-2.0	Beryllium Copper	Silver/Nickel
12176389	1.0-0.80	Beryllium Copper	Silver/Nickel

280 FEMALE CONNECTOR ASSEMBLIES SEALED

# Cavities	Conn. Asm.	Color	Material	TPA
1	12065172	Black	PA66 HS IM	12065249
2	15300027	Black	PA66 HS IM	15300014
2	12124819	Black	PBT	12020807
3	12040977	Black	PA66 HS IM	12034145
4	12129565	Md. Gray	PA66 HS IM	15300016
5	12084891	Md. Gray	PA66 HS IM	15300017

280.1 FEMALE PULL-TO-SEAT TERMINALS SEALED

Part #	Cable Range (mm²)	Material	Plating
12077939	1.0-0.80	Silicon Bronze	Tin
12103360	0.50-0.35	Silicon Bronze	Tin

280 METRI-PACK CABLE SEALS

Reel Part #	Loose Part #	Cable Diameter	Material	Color
12015360	12015193	4.30-3.45	Silicone	Blue
12015359	12010293	3.49-2.81	Silicone	Lt. Gray
12015284	12015323	2.85-2.03	Silicone	Green
12041352	12041351	2.42-2.03	Silicone	Tan
12089444	12089679	2.15-1.60	Silicone	Purple
12034365	12015899	1.70-1.29	Silicone	Dk. Red

http://delphi.com/products/connect

Sealed System Application Information

280 SERIES TERMINALS – Tin Plated

CABLE RANGE (mm²): 0.35-5.0

CURRENT RANGE (AMPS): 0-30

TEMP RANGE °C: .... -40 to 125

RESISTANCE: ...... <10mΩ@20mV

VOLTAGE DROP: ...... <3.0mV/amp

CENTERLINE SPACING (mm): 7.7

BLADE WIDTH (mm): 2.8
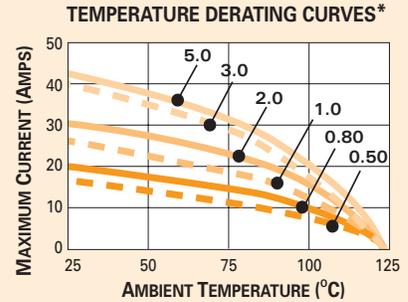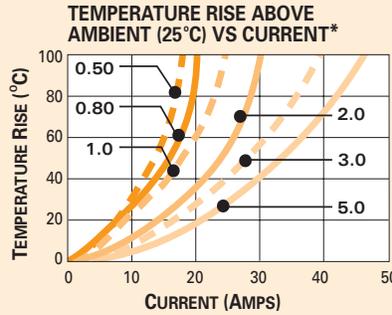
TEMPERATURE RISE ABOVE AMBIENT (25°C) VS CURRENT*

TEMPERATURE DERATING CURVES*

*The test data are based on single circuits in free space and were generated using a "Lumped Resistance" model. This model does not account for all of the variables that would be present in an actual application. For actual product performance, contact your regional support representative at the number listed below.

TPA
(Terminal Position Assurance)

Cable Seal

Male Terminal
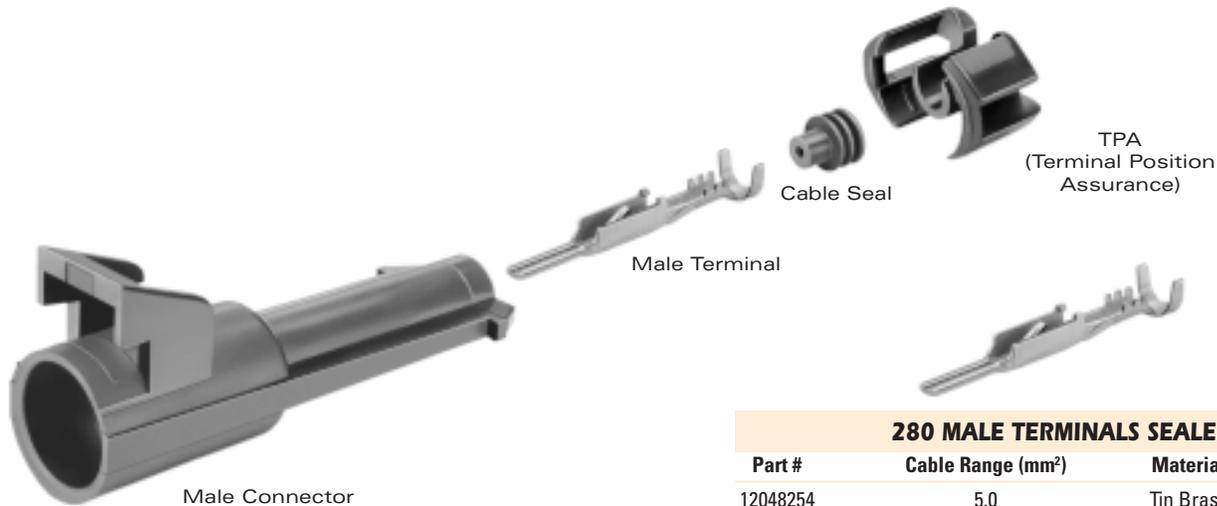
Male Connector

280 MALE TERMINALS SEALED

Part #	Cable Range (mm²)	Material	Plating
12048254	5.0	Tin Brass	Tin
12129497	3.0-2.0	Tin Brass	Tin
12048159	1.0-0.80	Tin Brass	Tin
12124977	0.50-0.35	Tin Brass	Tin

280 MALE CONNECTORS SEALED

# Cavities	Connector	Color	Material	TPA
1	12065171	Black	PA66 HS IM	12065249
2	15300002	Black	PA66 HS IM	15300014
2	12059450	Black	PA66 HS IM	12065279
3	15300003	Black	PA66 HS IM	15300015
4	12129600	Dk. Gray	PBT 30% GF	12092733
5	12186400	Gray	PBT 30% GF	12084673
7	12110753	Black	PA66 HS IM	12110754
15	12161187	Black	PA66 HS IM	12110782

280 METRI-PACK CAVITY PLUG*

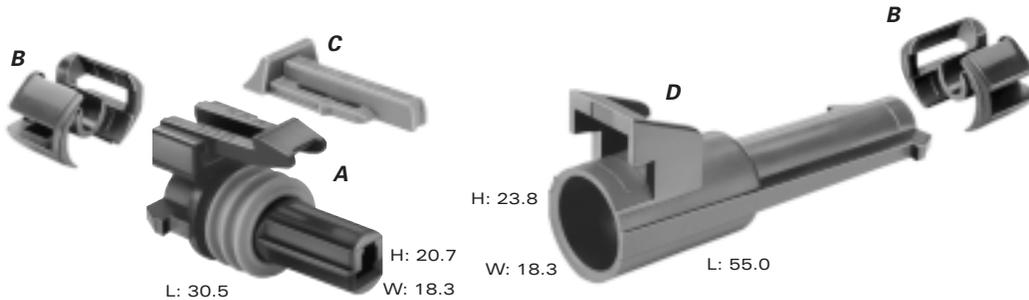| Part #	Cavity Inside Diameter	Material	Color
12010300	6.7mm	Silicone	Green

*Cavity plugs seal unused female and male cavities.

SECTION NOTES:

Contact your regional support representative at the number listed below.

• Due to rigid tolerances of connector cavities, it is critical to meet all crimp dimensions as specified.

• Female Connections for device applications, see page 92.

http://delphi.com/products/connect

North American Region	European Region	Asia Pacific Region	South American Region	85
1-800-PACKARD	49-202-291-2000	65-730-9900	55-12-378-2002	

B

C

B

D

H: 23.8

A

H: 20.7

W: 18.3

W: 18.3

L: 30.5

L: 55.0

Total Mated Length: 70.3mm

A PART NO: **12065172**
DESCRIPTION: Connector Assembly 1F
SIZE: 30.5L x 20.7H x 18.3W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85

B PART NO: **12065249**
DESCRIPTION: TPA
NUMBER REQ.: 2
COLOR: Black
MATERIAL: PA66 HS IM

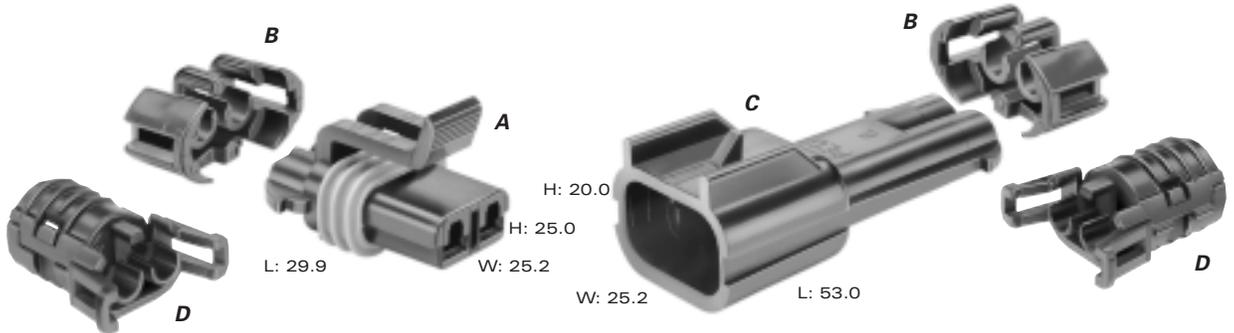**C** PART NO: **12052834**
DESCRIPTION: CPA
COLOR: Green
MATERIAL: PP

D PART NO: **12065171**
DESCRIPTION: Connector 1M
SIZE: 55.0L x 23.8H x 18.3W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 85
SEALS/PLUGS: See Page 84, 85

H

F

G

E

H: 21.3

H: 13.7

W: 28.5

W: 28.3

L: 49.0

L: 32.0
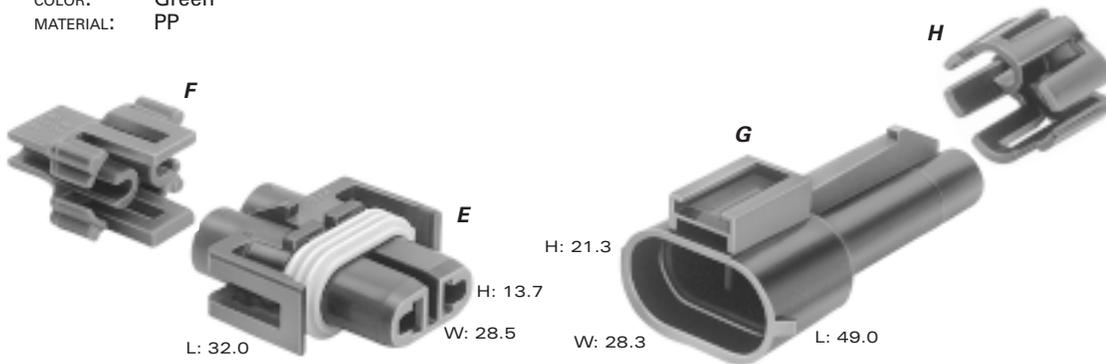
Total Mated Length: 81.9mm

E PART NO: **12124819**
DESCRIPTION: Connector Assembly 2F
SIZE: 32.0L x 13.7H x 28.5W
COLOR: Black
MATERIAL: PBT
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85

F PART NO: **12020807**
DESCRIPTION: TPA
COLOR: Md. Gray
MATERIAL: PA6

G PART NO: **12059450**
DESCRIPTION: Connector 2M (Clip Slot)
SIZE: 49.0L x 21.3H x 28.3W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 85
SEALS/PLUGS: See Page 84, 85

H PART NO: **12065279**
DESCRIPTION: TPA
COLOR: Black
MATERIAL: PA6

http://delphi.com/products/connect

B

B

C

A

H: 20.0

H: 25.0

L: 29.9

W: 25.2

W: 25.2

L: 53.0

D

D

Total Mated Length: 66.8mm

A PART NO: **15300027**
DESCRIPTION: Connector Assembly 2F
SIZE: 29.9L x 25.0H x 25.2W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85

B PART NO: **15300014**
DESCRIPTION: TPA
NUMBER REQ.: 2
COLOR: Blue
MATERIAL: PA6

C PART NO: **15300002**
DESCRIPTION: Connector 2M
SIZE: 53.0L x 20.0H x 25.2W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 85
SEALS/PLUGS: See Page 84, 85

D PART NO: **15327747 (Optional)**
DESCRIPTION: Conduit TPA
NUMBER REQ.: 2
COLOR: Black
MATERIAL: PA6

J

H

G

E

F

H: 26.5

H: 26.5

W: 30.4

W: 32.9

L: 36.7

L: 53.0
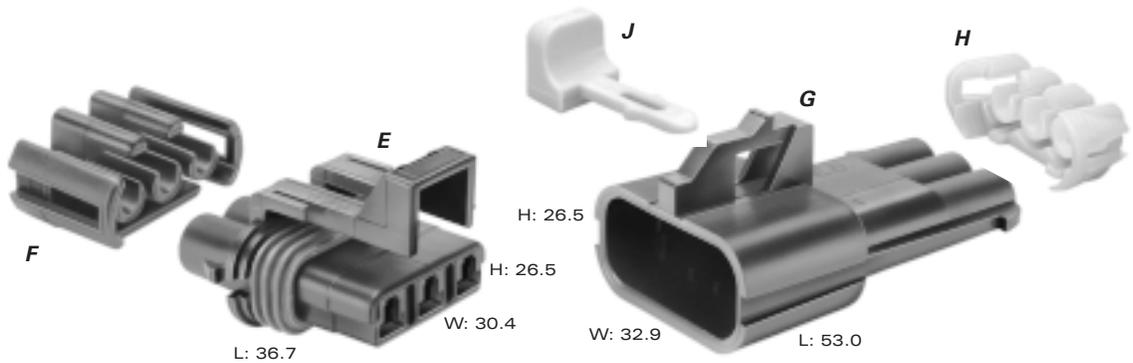
Total Mated Length: 76.1mm

E PART NO: **12040977**
DESCRIPTION: Connector Assembly 3F
SIZE: 36.7L x 26.5H x 30.4W
COLOR: Black
MATERIAL: PA66 HS IM
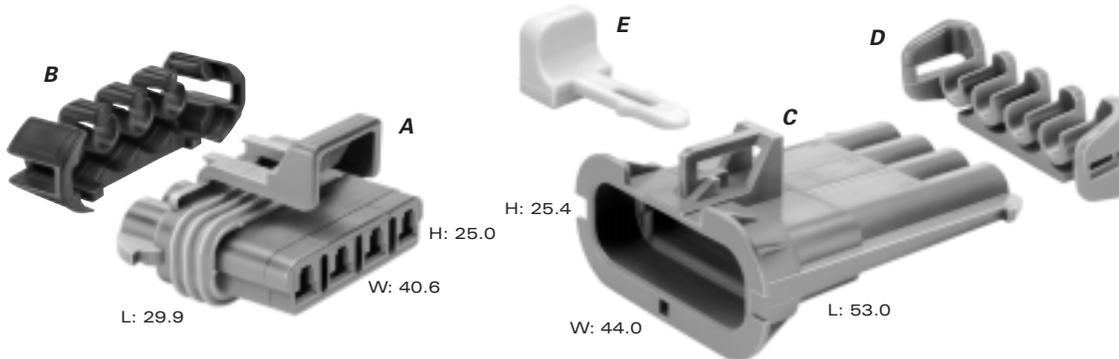TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85

F PART NO: **12034145**
DESCRIPTION: TPA
COLOR: Black
MATERIAL: PA6

G PART NO: **15300003**
DESCRIPTION: Connector 3M (Clip Slot)
SIZE: 53.0L x 26.5H x 32.9W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 85
SEALS/PLUGS: See Page 84, 85

H PART NO: **15300015**
DESCRIPTION: TPA
COLOR: Natural
MATERIAL: PA6

J PART NO: **12020833**
DESCRIPTION: CPA
COLOR: Gray
MATERIAL: PBT

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SEALED

E

D

B

A

H: 25.4

C

H: 25.0

W: 40.6

L: 29.9

L: 53.0
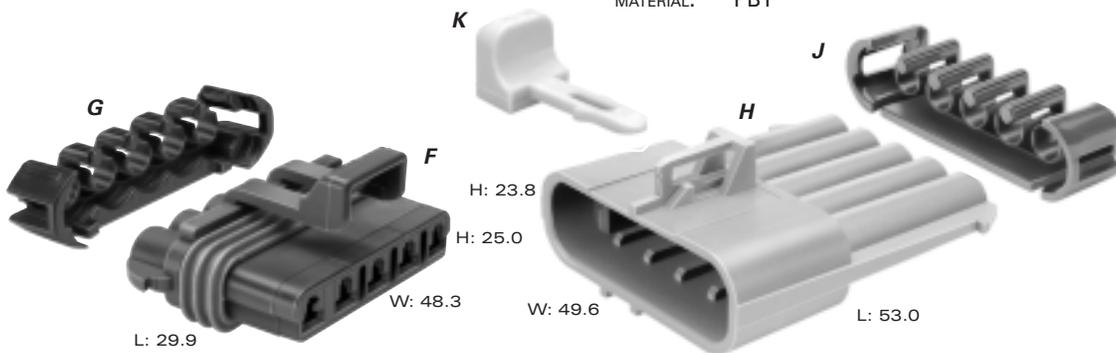
W: 44.0

Total Mated Length: 66.7mm

A PART NO: **12129565**
DESCRIPTION: Connector Assembly 4F
SIZE: 29.9L x 25.0H x 40.6W
COLOR: Md. Gray
MATERIAL: PA66 HS IM
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85

B PART NO: **15300016**
DESCRIPTION: TPA
COLOR: Black
MATERIAL: PA6

C PART NO: **12129600**
DESCRIPTION: Connector 4M (Clip Slot–Self Locking)
SIZE: 53.0L x 25.4H x 44.0W
COLOR: Dk. Gray
MATERIAL: PBT 30% GF
TERMINALS: See Page 85
SEALS/PLUGS: See Page 84, 85

D PART NO: **15324063**
DESCRIPTION: TPA
COLOR: Blue
MATERIAL: PA6

E PART NO: **12020833**
DESCRIPTION: CPA
COLOR: Gray
MATERIAL: PBT

K

J

G

F

H

H: 23.8

H: 25.0

W: 48.3

W: 49.6

L: 53.0

L: 29.9

Total Mated Length: 67.3mm

F PART NO: **12084891**
DESCRIPTION: Connector Assembly 5F
SIZE: 29.9L x 25.0H x 48.3W
COLOR: Md. Gray
MATERIAL: PA66 HS IM
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85

G PART NO: **15324857**
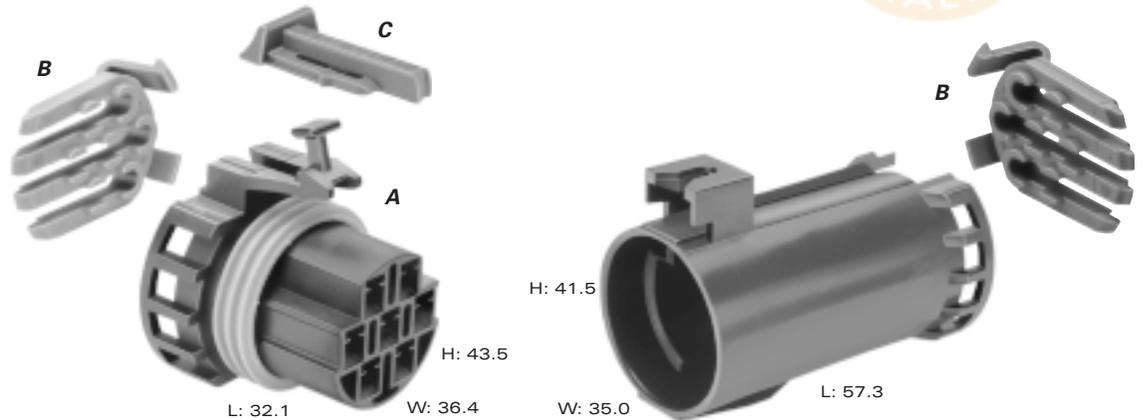DESCRIPTION: TPA
COLOR: Black
MATERIAL: PA6

H PART NO: **12186400**
DESCRIPTION: Connector 5M (Clip Slot–Self Locking)
SIZE: 53.0L x 23.8H x 49.6W
COLOR: Gray
MATERIAL: PBT 30% GF
TERMINALS: See Page 85
SEALS/PLUGS: See Page 84, 85

J PART NO: **12084673**
DESCRIPTION: TPA
COLOR: Black
MATERIAL: PA6

K PART NO: **12020833**
DESCRIPTION: CPA
COLOR: Gray
MATERIAL: PBT

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North American Region	European Region	Asia Pacific Region	South American Region
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SEALED

C

B

A

H: 41.5

H: 43.5

W: 36.4

W: 35.0

L: 32.1

L: 57.3

B

Total Mated Length: 77.3mm

TANGLESS

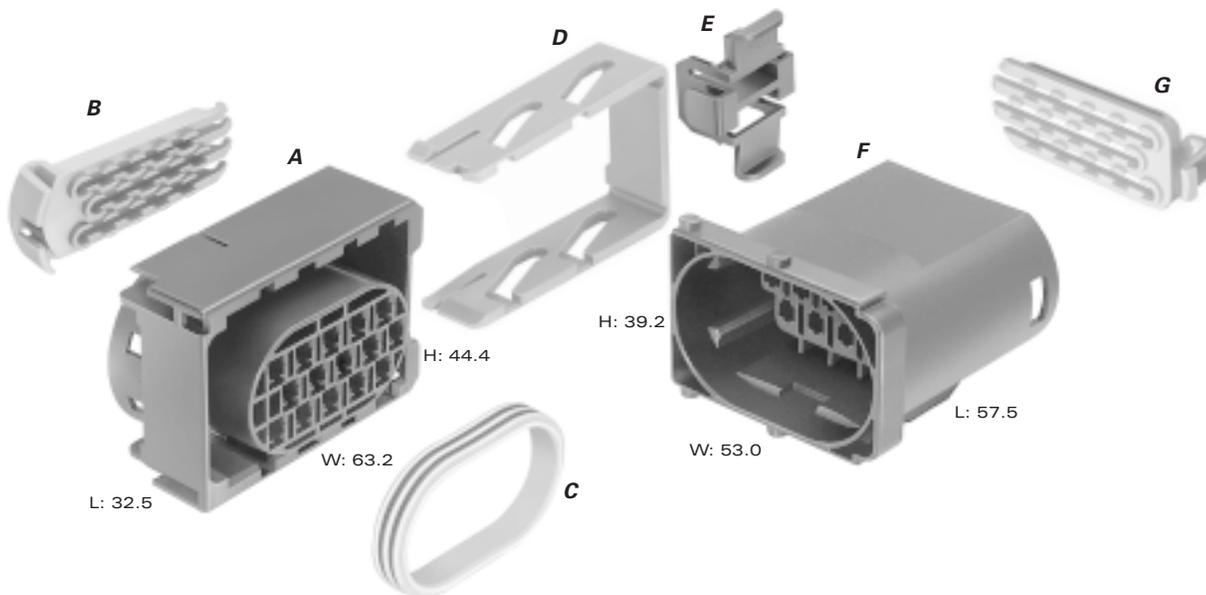**A** **PART NO:** **12110751 (Black)**
12129613 (Md. Gray)
12146841 (Natural)
DESCRIPTION: Connector Assembly 7F
SIZE: 32.1L x 43.5H x 36.4W
MATERIAL: PA66 HS IM
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85

B **PART NO:** **12110754**
DESCRIPTION: TPA
NUMBER REQ.: 2
COLOR: Lt. Gray
MATERIAL: PA6

C **PART NO:** **12052834**
DESCRIPTION: CPA
COLOR: Green
MATERIAL: PP

D **PART NO:** **12110753 (Black)**
12129614 (Md. Gray)
12146840 (Natural)
DESCRIPTION: Connector 7M (Clip Slot–Self Locking)
SIZE: 57.3L x 41.5H x 35.0W
MATERIAL: PA66 HS IM
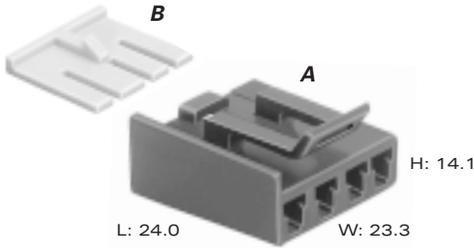TERMINALS: See Page 85
SEALS/PLUGS: See Page 84, 85

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SEALED SEALED

B

D

E

G

A

H: 44.4

W: 63.2

L: 32.5

C

F

H: 39.2

L: 57.5

W: 53.0

TANGLESS

Total Mated Length: 76.6mm

A PART NO: **12161186**
DESCRIPTION: Connector 15F
SIZE: 32.5L x 44.4H x 63.2W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85

B PART NO: **12110782**
DESCRIPTION: TPA
COLOR: Md. Gray
MATERIAL: PA6

C PART NO: **12110822**
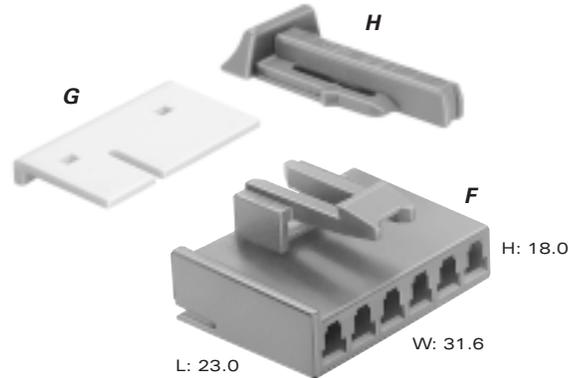DESCRIPTION: Connector Seal
COLOR: Green
MATERIAL: Silicone

D PART NO: **12161185**
DESCRIPTION: CPA Slide Lock Assist
COLOR: Dk. Gray
MATERIAL: PA66 HS IM 14% GF

E PART NO: **12176640**
DESCRIPTION: Spacer Lock
COLOR: Black
MATERIAL: PP

F PART NO: **12161187**
DESCRIPTION: Connector 15M (Clip Slot–Self Locking)
SIZE: 57.5L x 39.2H x 53.0W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 85
SEALS/PLUGS: See Page 84, 85

G PART NO: **12176865**
DESCRIPTION: TPA
COLOR: Lt. Gray
MATERIAL: PA6

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North American Region	European Region	Asia Pacific Region	South American Region
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B

A

H: 14.1

L: 24.0   W: 23.3

A PART NO: **12052856**
DESCRIPTION: Connector 4F
SIZE: 24.0L x 14.1H x 23.3W
COLOR: Black
MATERIAL: PA66 HS IM
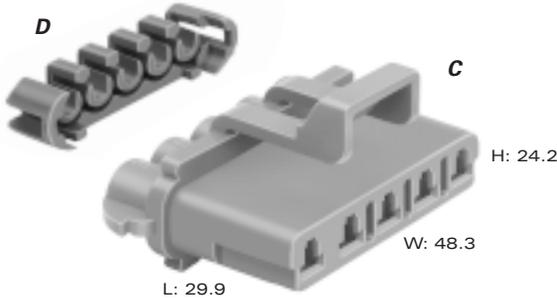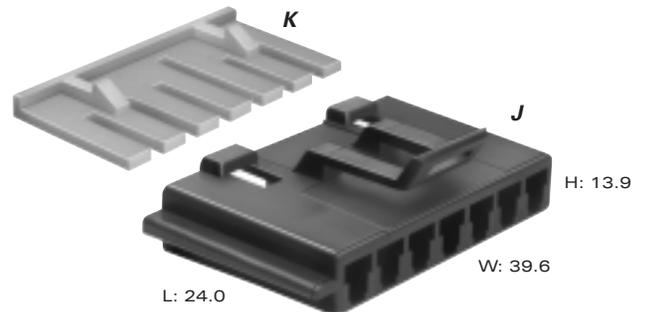TERMINALS: See Page 78
TYPICAL APP: Dimmer Switch

B PART NO: **15324456**
DESCRIPTION: TPA
COLOR: Lt. Gray
MATERIAL: PA6

D
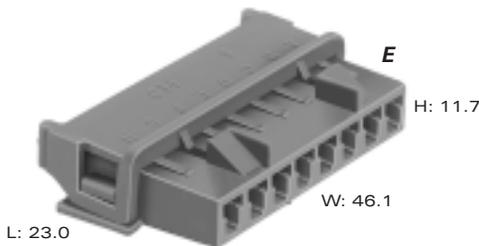
C

H: 24.2

W: 48.3

L: 29.9

C PART NO: **12084890**
DESCRIPTION: Connector 5F
SIZE: 29.9L x 24.2H x 48.3W
COLOR: Md. Gray
MATERIAL: PA66 HS IM
TERMINALS: See Page 78
TYPICAL APP: Tail Lamp Module

D PART NO: **15324857**
DESCRIPTION: TPA
COLOR: Black
MATERIAL: PA6

E

H: 11.7

W: 46.1

L: 23.0

E PART NO: **12041301***
DESCRIPTION: Connector 8F
SIZE: 23.0L x 11.7H x 46.1W
COLOR: Black
MATERIAL: PP
TERMINALS: See Page 78
TYPICAL APP: Various
*HINGED SECONDARY LOCK.

H

G

F

H: 18.0

L: 23.0   W: 31.6

F PART NO: **12092254**
DESCRIPTION: Connector 6F
SIZE: 23.0L x 18.0H x 31.6W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 78
TYPICAL APP: Wiper Switch

G PART NO: **12162298**
DESCRIPTION: TPA
COLOR: Cream
MATERIAL: PA6

H PART NO: **12052834**
DESCRIPTION: CPA
COLOR: Green
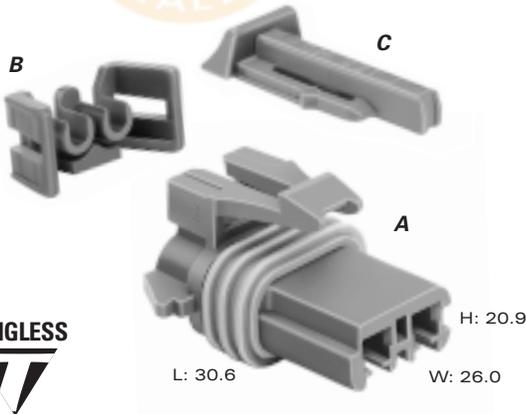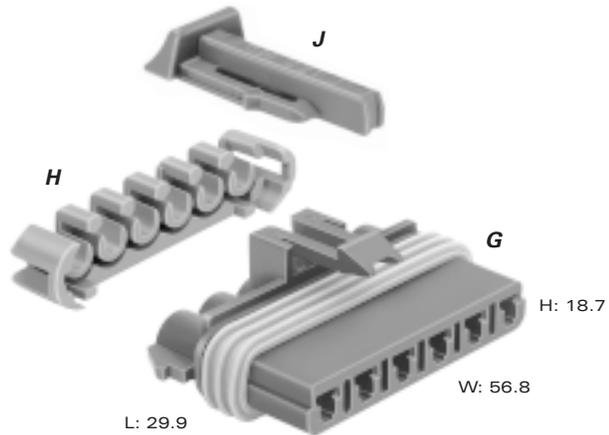MATERIAL: PP

K

J

H: 13.9

W: 39.6

L: 24.0

J PART NO: **12052854**
DESCRIPTION: Connector 7F
SIZE: 24.0L x 13.9H x 39.6W
COLOR: Black
MATERIAL: PA66 HS IM
TERMINALS: See Page 78
TYPICAL APP: Wiper Switch

K PART NO: **12124811**
DESCRIPTION: TPA
COLOR: Natural
MATERIAL: PA6

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SEALED SEALED

TANGLESS

H: 20.9
L: 30.6
W: 26.0

A PART NO: **12129487**
DESCRIPTION: Connector Assembly 2F
SIZE: 30.6L x 20.9H x 26.0W
COLOR: Md. Gray
MATERIAL: PA66 HS IM
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85
TYPICAL APP: Window Lift Motor

B PART NO: **12077904**
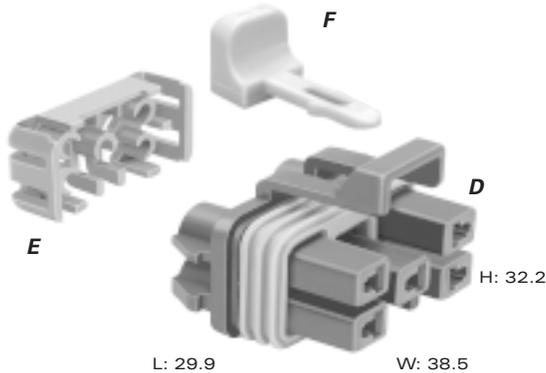DESCRIPTION: TPA
COLOR: Blue
MATERIAL: PA6

C PART NO: **12052834**
DESCRIPTION: CPA
COLOR: Green
MATERIAL: PP

H: 32.2
L: 29.9
W: 38.5

D PART NO: **12124634**
DESCRIPTION: Connector Assembly 5F
SIZE: 29.9L x 32.2H x 38.5W
COLOR: Black
MATERIAL: PA6
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85
TYPICAL APP: Wiper Switch

E PART NO: **12052816**
DESCRIPTION: TPA
COLOR: Md. Gray
MATERIAL: PA6

F PART NO: **12020833**
DESCRIPTION: CPA
COLOR: Gray
MATERIAL: PBT

H: 18.7
L: 29.9
W: 56.8

G PART NO: **12059573**
DESCRIPTION: Connector Assembly 6F
SIZE: 29.9L x 18.7H x 56.8W
COLOR: Black
MATERIAL: PA66
TERMINALS: See Page 84
SEALS/PLUGS: See Page 84, 85
TYPICAL APP: Various

H PART NO: **12059195**
DESCRIPTION: TPA
COLOR: Blue
MATERIAL: PA6

J PART NO: **12052834**
DESCRIPTION: CPA
COLOR: Green
MATERIAL: PP

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Multiple Cable Seal
(Included)

A

H: 20.0

L: 27.8

W: 29.6
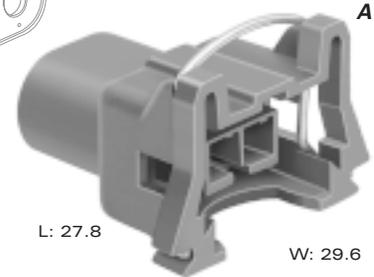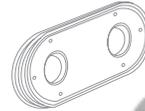
A PART NO: **12129142 (Black/Gray Seal)**
2.66 - 2.0 Cable O.D.
PART NO: **12129140 (Black/Purple Seal)**
2.15 - 1.65 Cable O.D.
PART NO: **12110179 (Black/Red Seal)**
1.85 - 1.47 Cable O.D.
DESCRIPTION: Connector Assembly 2F
SIZE: 27.8L x 20.0H x 29.6W
MATERIAL: PA66 HS 33% GF
TERMINALS: See Page 84
TYPICAL APP: Fuel Injector

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Вы можете приобрести в компании MosChip.

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http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное   производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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