Weather-Pack

Cross Sectional View

Sleeve

Hinged TPA

Cable

Cable Seal

Connector Seal

Pin

Hinged TPA
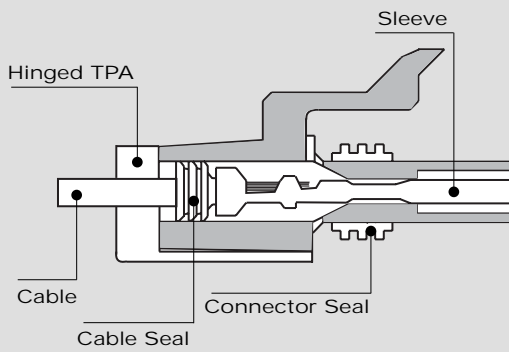
Cable

Cable Seal

Female Connector Assembly

Male Connector

Cable Seal

Female Terminal
(Sleeve)

Weather-Pack Female Terminals (Sleeve) Sealed*

Sleeve Part #	Cable Range (mm²)	Material	Plating
12124581	3.0	Tin Brass	Tin
12124580	2.0-1.0	Tin Brass	Tin
12089188	0.80-0.50	Tin Brass	Tin
12020801	0.35	Tin Brass	Tin

* Use of the Weather-Pack 6060 gauge as a process control aid is recommended for Weather-Pack terminals. See page 10.5 in the Application Tooling section for details.

Female Connector Assembly

Weather-Pack Cable Seals

Reel Part #	Loose Part #	Cable Dia.	Material	Color
12015360	15324981	4.30-3.45	Silicone	Blue
12015359	15324980	3.49-2.81	Silicone	Gray
12015284	15324982	2.85-2.03	Silicone	Green
12041352	15324984	2.42-2.03	Silicone	Tan
12089444	15324985	2.15-1.60	Silicone	Purple
12034365	15324983	1.70-1.29	Silicone	Dk.Red

Weather-Pack Female Connector Assemblies Sealed

# Cavities	Connector Assembly	Color	Material
1	12015791	Black	PA6
2	12015792	Black	PA66 HS IM
3	12020829	Black	PA66 HS IM
4	12015798	Black	PA6
4	12020832	Black	PA66 HS IM
6	12020926	Black	PA66 HS IM
22	15492531	Black	PA6

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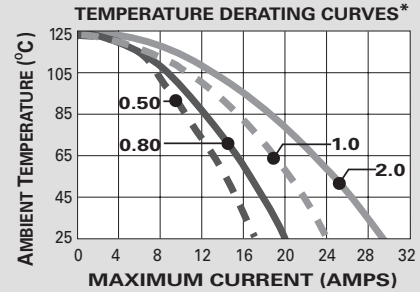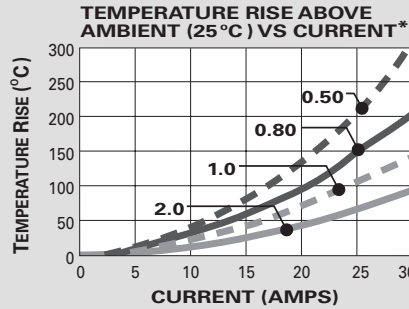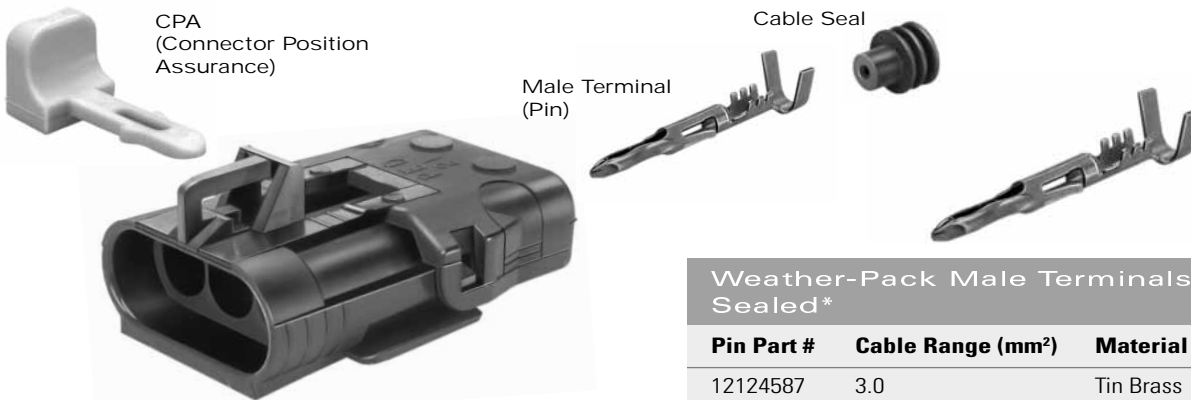
Weather-Pack

Sealed System Application Information

Weather-Pack Terminals – Tin Plated

CABLE RANGE (mm²): **0.35-3.0**

CURRENT RANGE (AMPS): **0-20**

TEMP RANGE °C: .... **-40 to 125**

RESISTANCE: .... **<10m @20mV**

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

CENTERLINE SPACING (mm): **7.7**

BLADE WIDTH (mm): ... **Pin and Sleeve**

TEMPERATURE RISE ABOVE AMBIENT (25°C) VS CURRENT*

TEMPERATURE RISE (°C) / CURRENT (AMPS)

0.50, 0.80, 1.0, 2.0

TEMPERATURE DERATING CURVES*

AMBIENT TEMPERATURE (°C) / MAXIMUM CURRENT (AMPS)

0.50, 0.80, 1.0, 2.0

* 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.

CPA (Connector Position Assurance)

Male Terminal (Pin)

Cable Seal

Male Connector

Weather-Pack Male Terminals (Pin) Sealed*

Pin Part #	Cable Range (mm²)	Material	Plating
12124587	3.0	Tin Brass	Tin
12124582	2.0-1.0	Tin Brass	Tin
12089040	0.80-0.50	Tin Brass	Tin
12089307	0.35-0.22	Tin Brass	Tin

* Use of the Weather-Pack 6060 gauge as a process control aid is recommended for Weather-Pack terminals. See page 10.5 in the Application Tooling section for details.

Weather-Pack Male Connectors Sealed

# Cavities	Connector	Color	Material
1	12010996	Black	PA66 HS IM
2	12010973	Black	PA6
3	12020827	Cream	PA66 HS IM
4	12015024	Black	PA6
4	12020830	Black	PA66 HS IM
6	12020786	Black	PA66 HS IM
22	15492521	Black	PA66 HS IM

Weather-Pack Cavity Plug*

Part #	Cavity Inside Dia.	Material	Color
12010300	6.7mm	Silicone	Green

* Cavity plugs seal unused female and male cavities.

SECTION NOTES:
• 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.

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Special Products

Weather-Pack

An environmentally sealed connection system that utilizes triple-rib peripheral silicone rubber seals and individual towers to provide terminal isolation for connector alignment. Weather-Pack sealed systems are ideally suited for critical applications that require protection from environmental hazards.
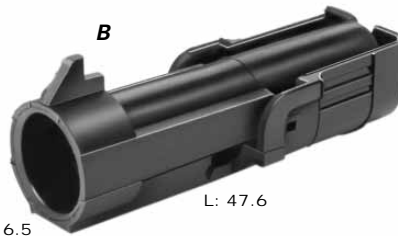
A

H: 20.8

L: 40.5

W: 13.6

B
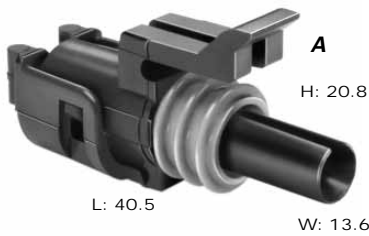
H: 17.3

L: 47.6

W: 16.5
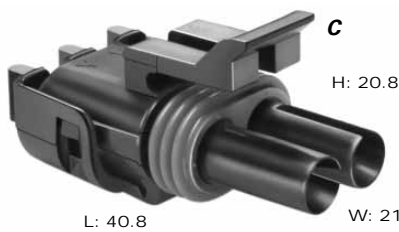
Total Mated Length: 64.5mm

A. **Part No:** **12015791**

Description:	Connector Assembly 1F
Size:	40.5L x 20.8H x 13.6W
Color:	Black
Material:	PA6
Terminals:	See Page 6.16
Seals/Plugs:	See Page 6.16, 6.17

B. **Part No:** **12010996**

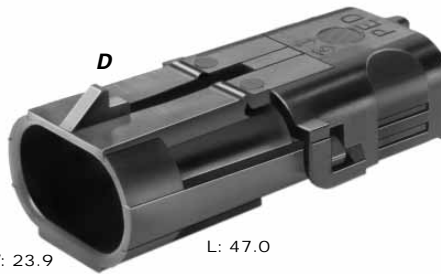|	
Description:	Connector 1M
Size:	47.6L x 17.3H x 16.5W
Color:	Black
Material:	PA66 HS IM
Terminals:	See Page 6.17
Seals/Plugs:	See Page 6.16, 6.17

C

H: 20.8

L: 40.8

W: 21.5

D

H: 17.5

W: 23.9

L: 47.0

Total Mated Length: 68.3mm

C. **Part No:** **12015792 (Black)**
PA66 HS IM

12103784 (Lt. Gray)
PA6

|	
Description:	Connector Assembly 2F
Size:	40.8L x 20.8H x 21.5W
Terminals:	See Page 6.16
Seals/Plugs:	See Page 6.16, 6.17

D. **Part No:** **12010973 (Black)**
PA6

12034074 (Md. Gray)
PA66 HS IM

Description:	Connector 2M (Clip Slot)
Size:	47.0L x 17.5H x 23.9W
Terminals:	See Page 6.17
Seals/Plugs:	See Page 6.16, 6.17

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Special Products

Weather-Pack

A

C

B

H: 23.5

H: 20.5

W: 29.2

W: 31.9

L: 39.2

L: 46.1
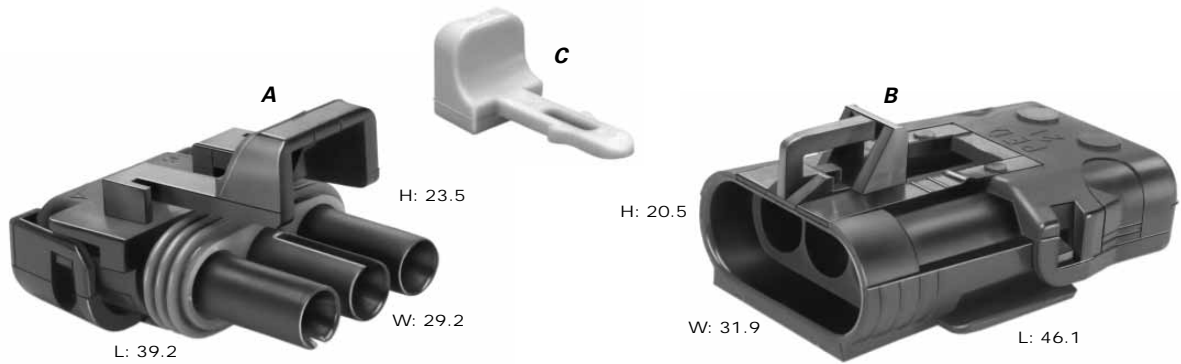
Total Mated Length: 65.8mm

A. Part No: 12020829
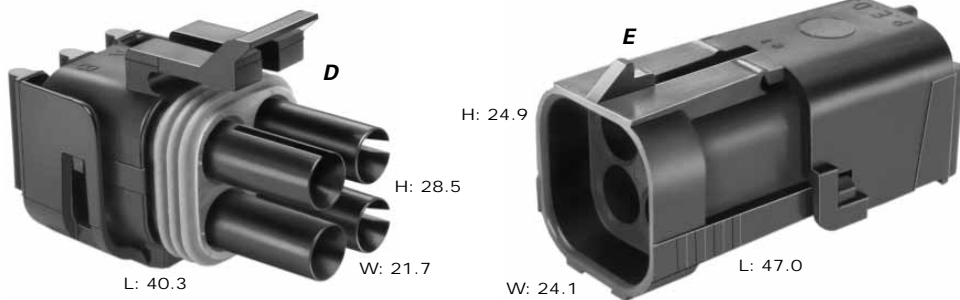
Description:	Connector Assembly 3F
Size:	39.2L x 23.5H x 29.2W
Color:	Black
Material:	PA66 HS IM
Terminals:	See Page 6.16
Seals/Plugs:	See Page 6.16, 6.17

B. Part No: 12020827

Description:	Connector 3M (Clip Slot)
Size:	46.1L x 20.5H x 31.9W
Color:	Cream
Material:	PA66 HS IM
Terminals:	See Page 6.17
Seals/Plugs:	See Page 6.16, 6.17

C. Part No: 12020833

Description:	CPA
Color:	Gray
Material:	PBT

D

E

H: 24.9

H: 28.5

W: 21.7

L: 40.3

W: 24.1

L: 47.0

Total Mated Length: 68.3mm

D. Part No: 12015798

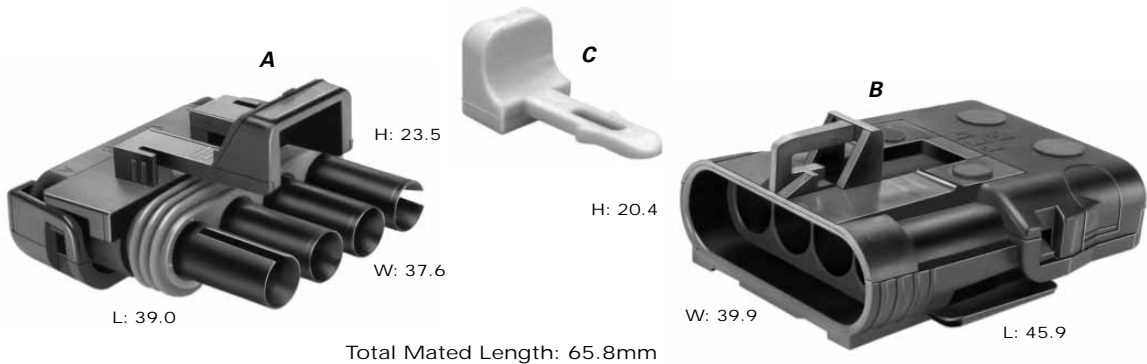|	
Description:	Connector Assembly 4F
Size:	40.3L x 28.5H x 21.7W
Color:	Black
Material:	PA6
Terminals:	See Page 6.16
Seals/Plugs:	See Page 6.16, 6.17

E. Part No: 12015024

Description:	Connector 4M (Clip Slot)
Size:	47.0L x 24.9H x 24.1W
Color:	Black
Material:	PA6
Terminals:	See Page 6.17
Seals/Plugs:	See Page 6.16, 6.17

Special Products

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Weather-Pack

A

H: 23.5

W: 37.6

L: 39.0

C

H: 20.4

B

W: 39.9

L: 45.9

Total Mated Length: 65.8mm

A. **Part No:** **12020832**

Description:	Connector Assembly 4F
Size:	39.0L x 23.5H x 37.6W
Color:	Black
Material:	PA66 HS IM
Terminals:	See Page 6.16
Seals/Plugs:	See Page 6.16, 6.17

B. **Part No:** **12020830**

Description:	Connector 4M (Clip Slot)
Size:	45.9L x 20.4H x 39.9W
Color:	Black
Material:	PA66 HS IM
Terminals:	See Page 6.17
Seals/Plugs:	See Page 6.16, 6.17

C. **Part No:** **12020833**

Description:	CPA
Color:	Gray
Material:	PBT

F

D

H: 23.5

H: 20.7

W: 52.1

E

W: 55.5

L: 39.1

Total Mated Length: 66.4mm

L: 46.2
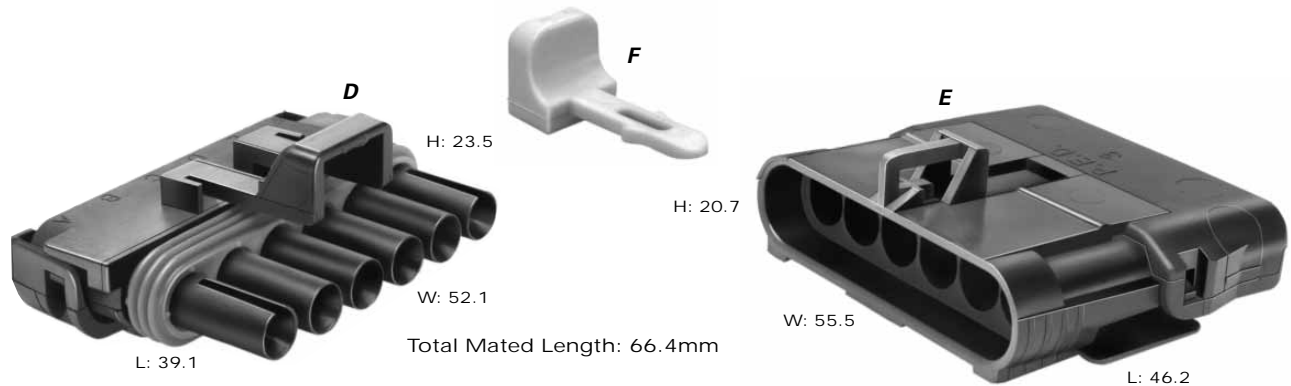
D. **Part No:** **12020926**

Description:	Connector Assembly 6F
Size:	39.1L x 23.5H x 52.1W
Color:	Black
Material:	PA66 HS IM
Terminals:	See Page 6.16
Seals/Plugs:	See Page 6.16, 6.17

E. **Part No:** **12020786**

|	
Description:	Connector 6M (Clip Slot)
Size:	46.2L x 20.7H x 55.5W
Color:	Black
Material:	PA66 HS IM
Terminals:	See Page 6.17
Seals/Plugs:	See Page 6.16, 6.17

F. **Part No:** **12020833**

Description:	CPA
Color:	Gray
Material:	PBT

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Special Products

Weather-Pack

H: 62.0

H: 63.5

L: 45.0

W: 91.0

L: 69.9

W: 55.2

Total Mated Length: 77.3mm
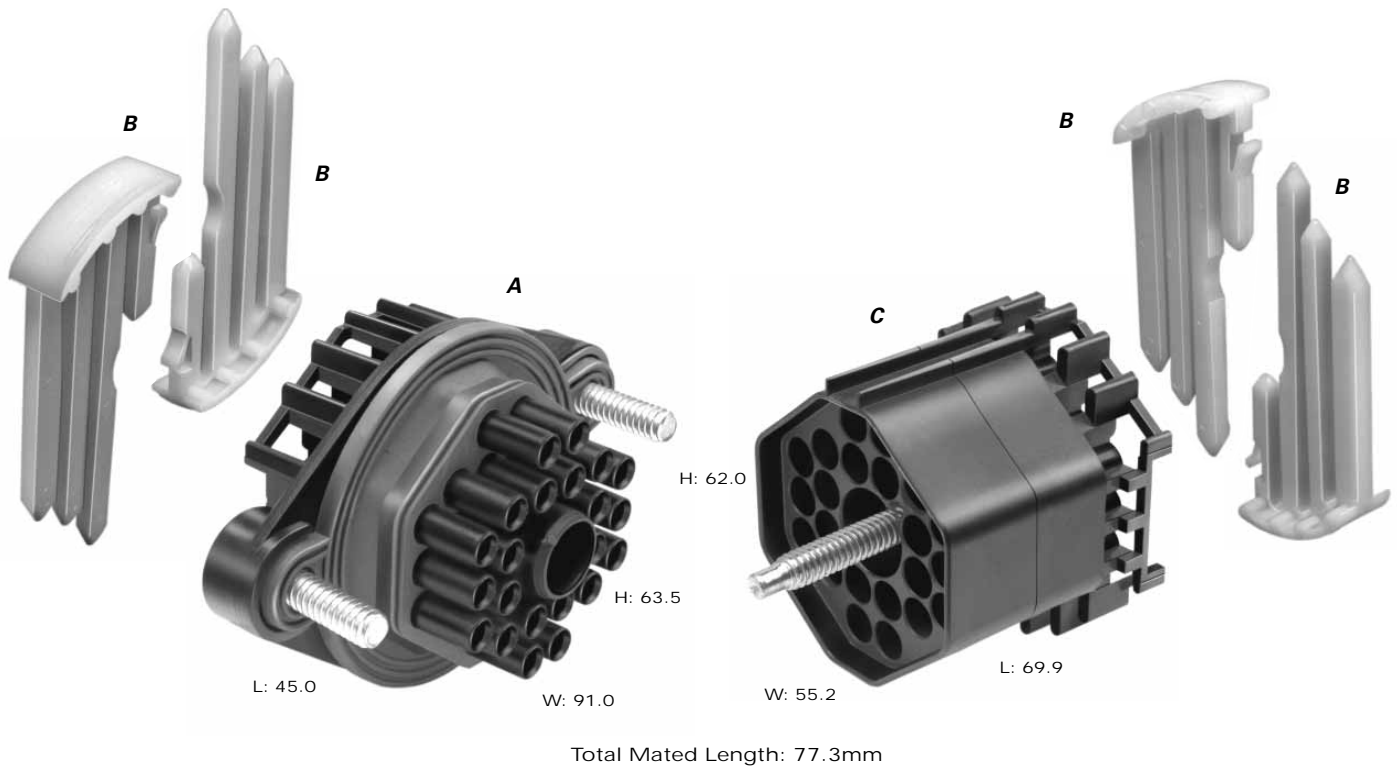
A. Part No: 15492531

Description:	Connector Assembly 22F
Size:	45.0L x 63.5H x 91.0W
Color:	Black
Material:	PA6
Terminals:	See Page 6.16
Seals/Plugs:	See Page 6.16, 6.17
Application:	Pass-Through

B. Part No: 12010852

Description:	Secondary Lock
Number Req:	4
Color:	Natural
Material:	PA6

C. Part No: 15492521

Description:	Connector Assembly 22M
Size:	69.9L x 62.0H x 55.2W
Color:	Black
Material:	PA66 HS IM
Terminals:	See Page 6.17
Seals/Plugs:	See Page 6.16, 6.17
Application:	Pass-Through

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