

Metri-Pack Series Junction Systems



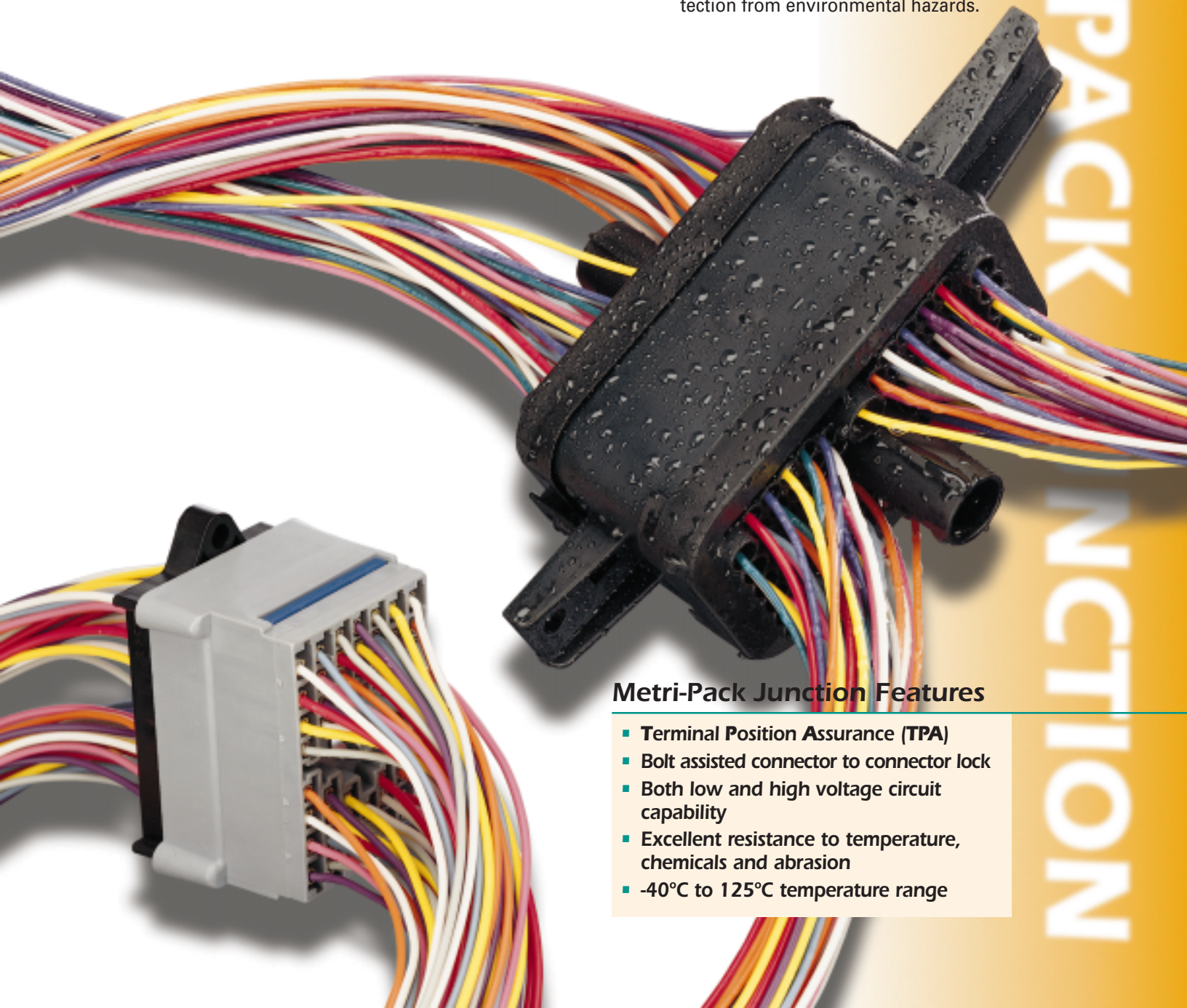
Available in pass-through and in-line connections, Metri-Pack Junction System Series connectors can meet or exceed the requirements for most marine, appliance, and industrial control applications.

Ideally suited for combination low energy and high current applications that do not require environmental protection, Metri-Pack Junction System Series products are extremely versatile.



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

Metri-Pack Junction Series sealed systems are ideally suited for combination, low-energy electronic, and high current applications that require protection from environmental hazards.

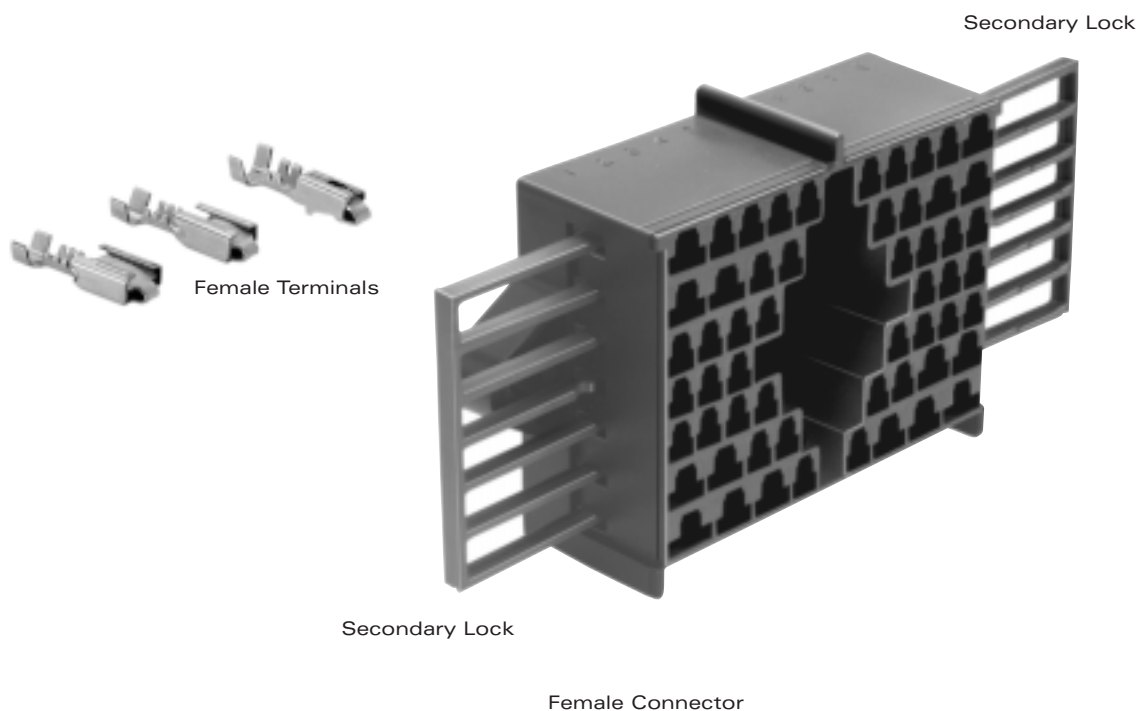


Metri-Pack Junction Features

- Terminal Position Assurance (TPA)
- Bolt assisted connector to connector lock
- Both low and high voltage circuit capability
- Excellent resistance to temperature, chemicals and abrasion
- -40°C to 125°C temperature range



Female Unsealed System

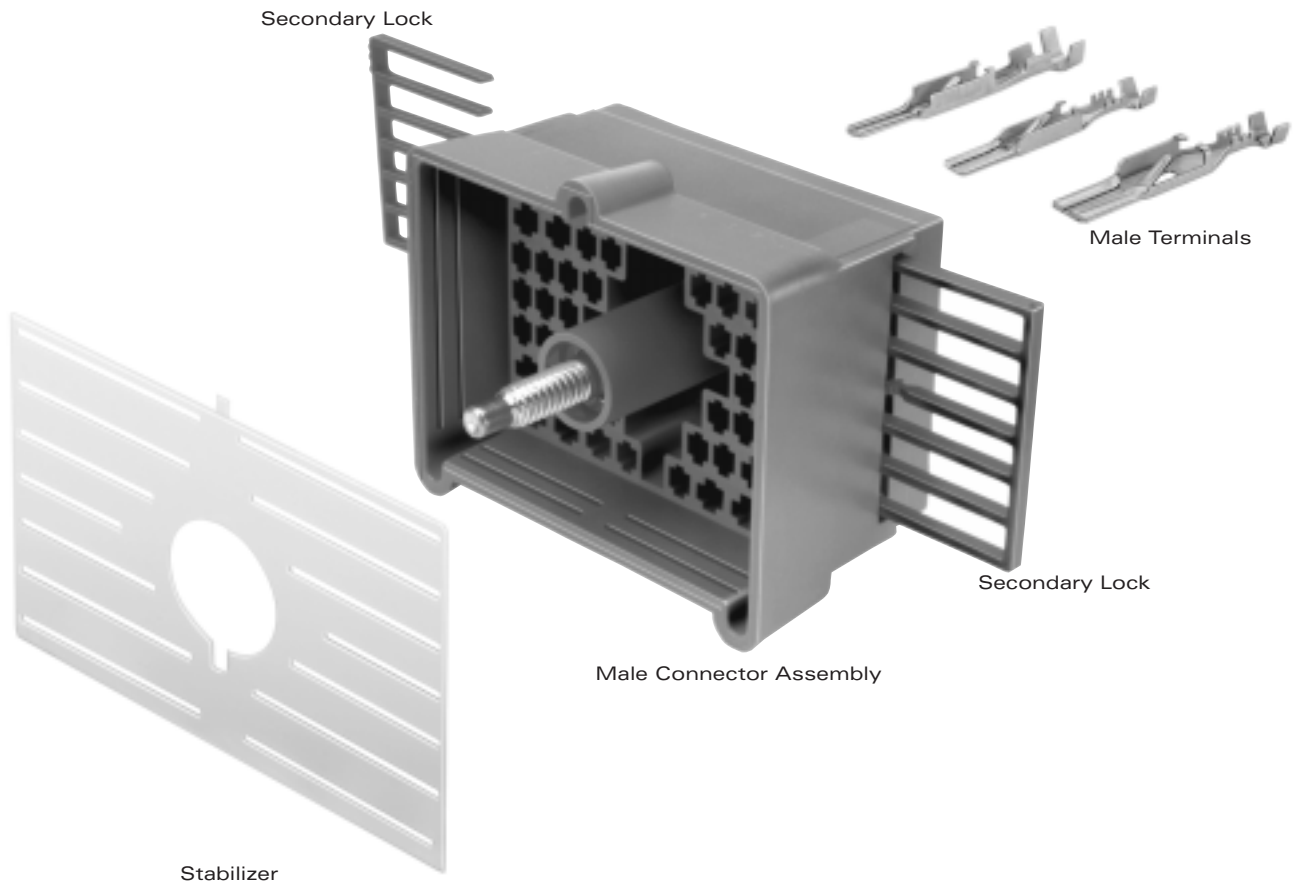


JUNCTION SYSTEMS FEMALE CONNECTORS UNSEALED

# Cavities	Connector	Color	Material	Secondary Lock
42way: 42	12015508	Black	PA6	12015510 12015511
48way: 18	12084183	Black	PA66 HS IM	12047838
: 17	12047842	Black	PA66 HS IM	12047843
: 13	12047840	Gray	PPE	12047841
56way: 56	15394027	Black	PA6	15324764
116way: 116	12162463	Black	PA66 HS IM 14% GF	12047751



Male Unsealed System



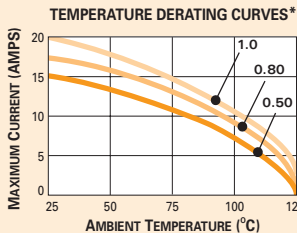
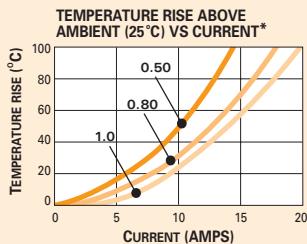
JUNCTION SYSTEMS MALE CONNECTOR ASSEMBLIES UNSEALED

# Cavities	Conn. Asm.	Color	Material	Secondary Lock	Stabilizer
42way: 25	12015509	Black	PA66 HS IM	12015510	12162412
: 17	12020629	Black	PA6	12015511	12162413
48way: 48	12077822	Black	PA6	12047845	12186880
				12047846	
				12047838	
56way: 56	12059735	Md. Gray	PA66 HS IM	15324764	12186869
116way: 116	12065705	Black	PPE	12047752	12124732



Unsealed System Application Information

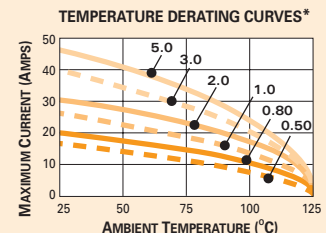
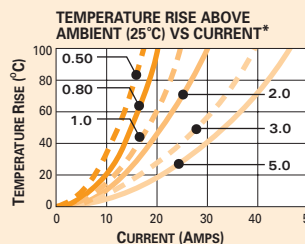
150 SERIES TERMINALS-Tin Plated



CABLE RANGE (mm²): 0.35-1.0
CURRENT RANGE (AMPS): 0-14
TEMP RANGE °C: -40 to 125
RESISTANCE: <10mΩ@20mV

VOLTAGE DROP: <10.0mV/amp
CENTERLINE SPACING (mm):
..... Connector Dependent
BLADE WIDTH (mm): 1.5

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):
..... Connector Dependent
BLADE WIDTH (mm): 2.8

* 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.



150 SERIES FEMALE TERMINALS UNSEALED

Part #	Cable Range (mm ²)	Material	Plating
12047767	1.0-0.80	Silicon Bronze	Tin
12064971	0.50-0.35	Silicon Bronze	Tin



480 SERIES FEMALE TERMINALS UNSEALED

Part #	Cable Range (mm ²)	Material	Plating
12084595	5.0	Tin Brass	Tin
12052221	3.0	Tin Brass	Tin
12124304	2.0-1.0	Tin Brass	Tin
12015860	0.80	Tin Brass	Tin
12052219	0.50-0.35	Tin Brass	Tin
12020366	1.0-0.50 (1 Req'd.) 0.80-0.50 (1 Req'd.)	Tin Brass	Tin



280 SERIES FEMALE TERMINALS UNSEALED

Part #	Cable Range (mm ²)	Material	Plating
12015858	5.0	Tin Brass	Tin
12129494	3.0-2.0	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 may apply, contact your regional support representative at the number listed below for specifications.



630 SERIES FEMALE TERMINALS UNSEALED

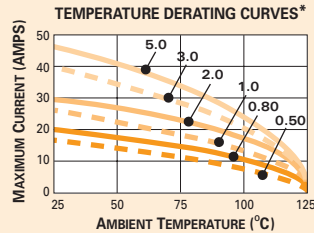
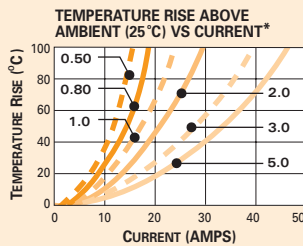
Part #	Cable Range (mm ²)	Material	Plating
12084590	5.0	Tin Brass	Tin
12084596	3.0 (2 Req'd.)	Tin Brass	Tin
12052224	3.0	Tin Brass	Tin
12015870	2.0-1.0	Tin Brass	Tin
12015869	1.0-0.80	Tin Brass	Tin
12020035	0.80-0.50 (2 Req'd.)	Tin Brass	Tin
12052222	0.50-0.35	Tin Brass	Tin

<http://delphi.com/products/connect>



Unsealed System Application Information

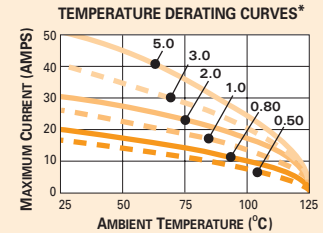
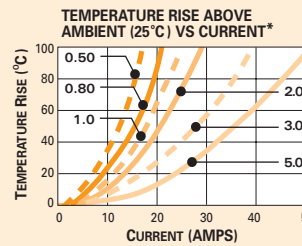
480 SERIES TERMINALS-Tin Plated



CABLE RANGE (mm²): 0.35-5.0
CURRENT RANGE (AMPS): 0-42
TEMP RANGE °C: -40 to 125
RESISTANCE: <10mΩ@20mV

VOLTAGE DROP: <3.0mV/amp
CENTERLINE SPACING (mm):
..... Connector Dependent
BLADE WIDTH (mm): 4.8

630 SERIES TERMINALS-Tin Plated



CABLE RANGE (mm²): 0.35-5.0
CURRENT RANGE (AMPS): 0-46
TEMP RANGE °C: -40 to 125
RESISTANCE: <10mΩ@20mV

VOLTAGE DROP: <3.0mV/amp
CENTERLINE SPACING (mm):
..... Connector Dependent
BLADE WIDTH (mm): 6.3

* 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.



150 SERIES MALE TERMINALS UNSEALED

Part #	Cable Range (mm²)	Material	Plating
12047581	1.0-0.80	Tin Brass	Tin
12059894	0.50-0.35	Tin Brass	Tin



480 SERIES MALE TERMINALS UNSEALED

Part #	Cable Range (mm²)	Material	Plating
12033820	5.0	Tin Brass	Tin over Copper
12052827	3.0	Tin Brass	Tin over Copper
12020120	2.0-1.0	Tin Brass	Tin over Copper
12020119	1.0-0.80	Tin Brass	Tin over Copper
12066269	0.50-0.35	Tin Brass	Tin over Copper
12020784	0.35 (2 Req'd.)	Tin Brass	Tin over Copper



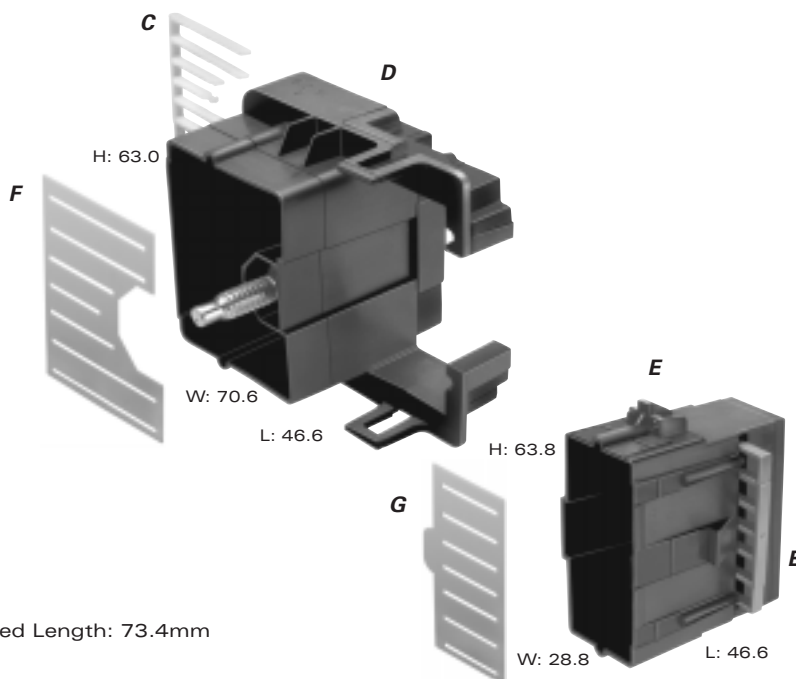
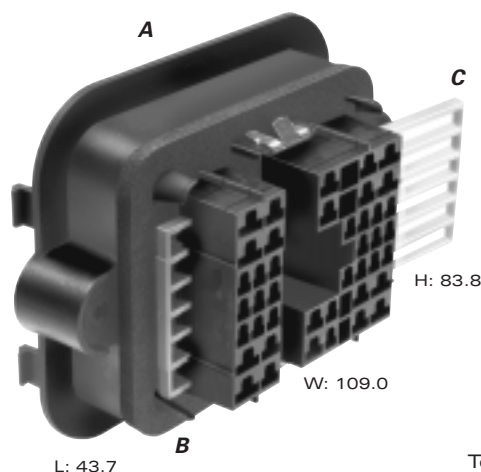
280 SERIES MALE TERMINALS UNSEALED

Part #	Cable Range (mm²)	Material	Plating
12084586	5.0	Tin Brass	Tin
12129498	3.0-2.0	Tin Brass	Tin
12020116	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



630 SERIES MALE TERMINALS UNSEALED

Part #	Cable Range (mm²)	Material	Plating
12066493	5.0	Tin Brass	Tin over Copper
12052826	3.0	Tin Brass	Tin over Copper
12020365	3.0 (2 Req'd.)	Tin Brass	Tin over Copper
12020126	2.0-1.0	Tin Brass	Tin over Copper
12020125	1.0-0.80	Tin Brass	Tin over Copper
12033972	0.80-0.50 (2 Req'd.)	Tin Brass	Tin over Copper
12066454	0.50-0.35	Tin Brass	Tin over Copper



Total Mated Length: 73.4mm

A PART NO: 12015508
 DESCRIPTION: Connector Assembly 42F
 SIZE: 43.7L x 83.8H x 109.0W
 COLOR: Black
 MATERIAL: PA6
 TERMINALS: See Page 138
 NOTE: Available with Grease Covers 12015513 and 12033602

B PART NO: 12015511
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Blue
 MATERIAL: PBT

C PART NO: 12015510
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Natural
 MATERIAL: PBT

D PART NO: 12015509
 DESCRIPTION: Connector Assembly 25M
 SIZE: 46.6L x 63.0H x 70.6W
 COLOR: Black
 MATERIAL: PA66 HS IM
 TERMINALS: See Page 139

E PART NO: 12020629
 DESCRIPTION: Connector 17M
 SIZE: 46.6L x 63.8H x 28.8W
 COLOR: Black
 MATERIAL: PA6
 TERMINALS: See Page 139
 NOTE: Available with Grease Cover 12033601

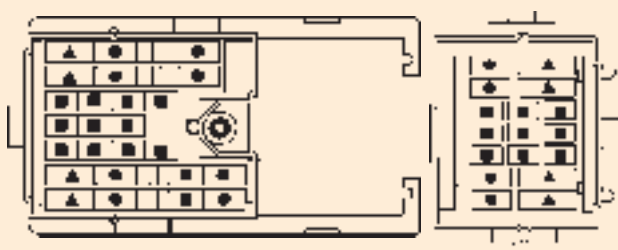
F PART NO: 12162412
 DESCRIPTION: Stabilizer
 COLOR: Natural
 MATERIAL: Mylar

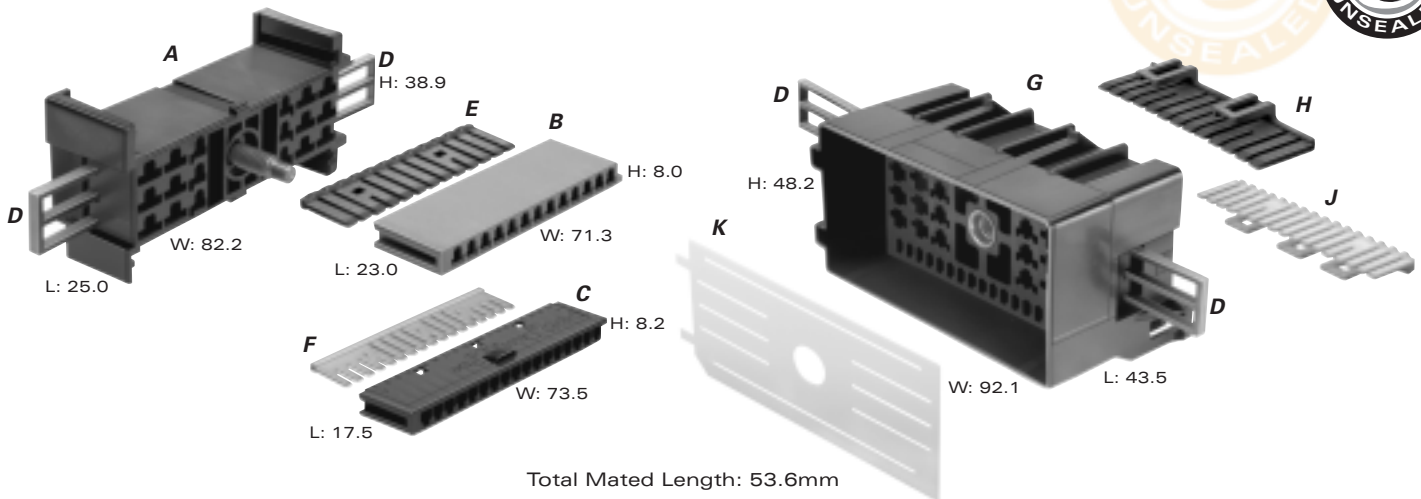
G PART NO: 12162413
 DESCRIPTION: Stabilizer
 COLOR: Natural
 MATERIAL: Mylar

KEY:

- 280 SERIES
- 480 SERIES
- ▲ 630 SERIES

Mixed connectors feature a combination of different terminal cavities, as indicated by the key.





A PART NO: 12084183
 DESCRIPTION: Connector Assembly 18F
 SIZE: 25.0L x 38.9H x 82.2W
 COLOR: Black
 MATERIAL: PA66 HS IM
 TERMINALS: See Page 138

G PART NO: 12077822
 DESCRIPTION: Connector Assembly 48M
 SIZE: 43.5L x 48.2H x 92.1W
 COLOR: Black
 MATERIAL: PA6
 TERMINALS: See Page 139

B PART NO: 12047840
 DESCRIPTION: Connector 13F
 SIZE: 23.0L x 8.0H x 71.3W
 COLOR: Gray
 MATERIAL: PPE
 TERMINALS: See Page 138

H PART NO: 12047845
 DESCRIPTION: TPA
 COLOR: Natural
 MATERIAL: PBT

C PART NO: 12047842
 DESCRIPTION: Connector 17F
 SIZE: 17.5L x 8.2H x 73.5W
 COLOR: Black
 MATERIAL: PA66 HS IM
 TERMINALS: See Page 138

J PART NO: 12047846
 DESCRIPTION: TPA
 COLOR: Blue
 MATERIAL: PBT IM

D PART NO: 12047838
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 4
 COLOR: Blue
 MATERIAL: PBT

K PART NO: 12186880
 DESCRIPTION: Stabilizer
 COLOR: Natural
 MATERIAL: Mylar

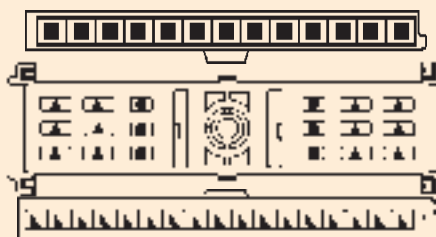
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 DESCRIPTION: TPA
 COLOR: Blue
 MATERIAL: PBT

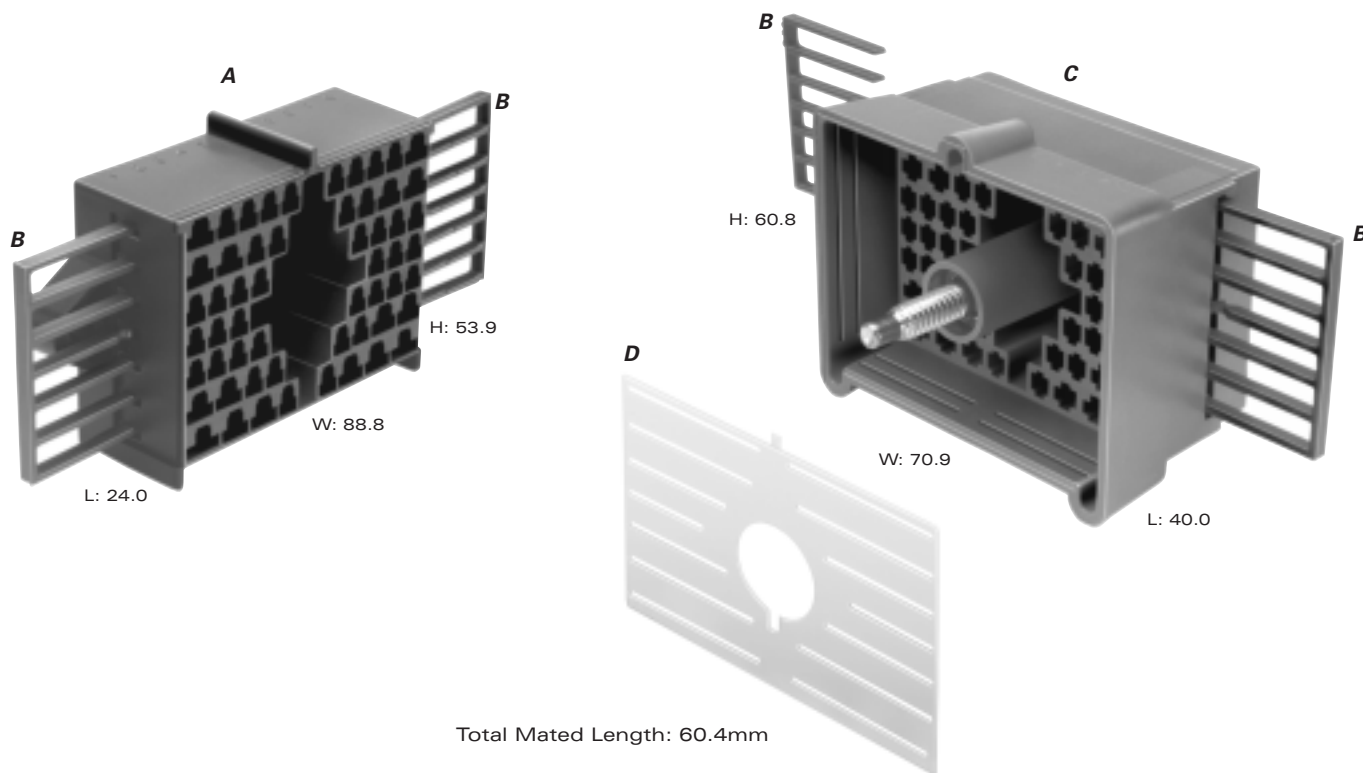
F PART NO: 12047843
 DESCRIPTION: TPA
 COLOR: Natural
 MATERIAL: PBT

KEY:

- 150 SERIES
- 280 SERIES
- ▲ 630 SERIES

Mixed connectors feature a combination of different terminal cavities, as indicated by the key.





A PART NO: 15394027
 DESCRIPTION: Connector Assembly 56F
 SIZE: 24.0L x 53.9H x 88.8W
 COLOR: Black
 MATERIAL: PA6
 TERMINALS: See Page 138

C PART NO: 12059735
 DESCRIPTION: Connector Assembly 56M
 SIZE: 40.0L x 60.8H x 70.9W
 COLOR: Md. Gray
 MATERIAL: PA66 HS IM
 TERMINALS: See Page 139

B PART NO: 15324764
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 4
 COLOR: Blue
 MATERIAL: PBT

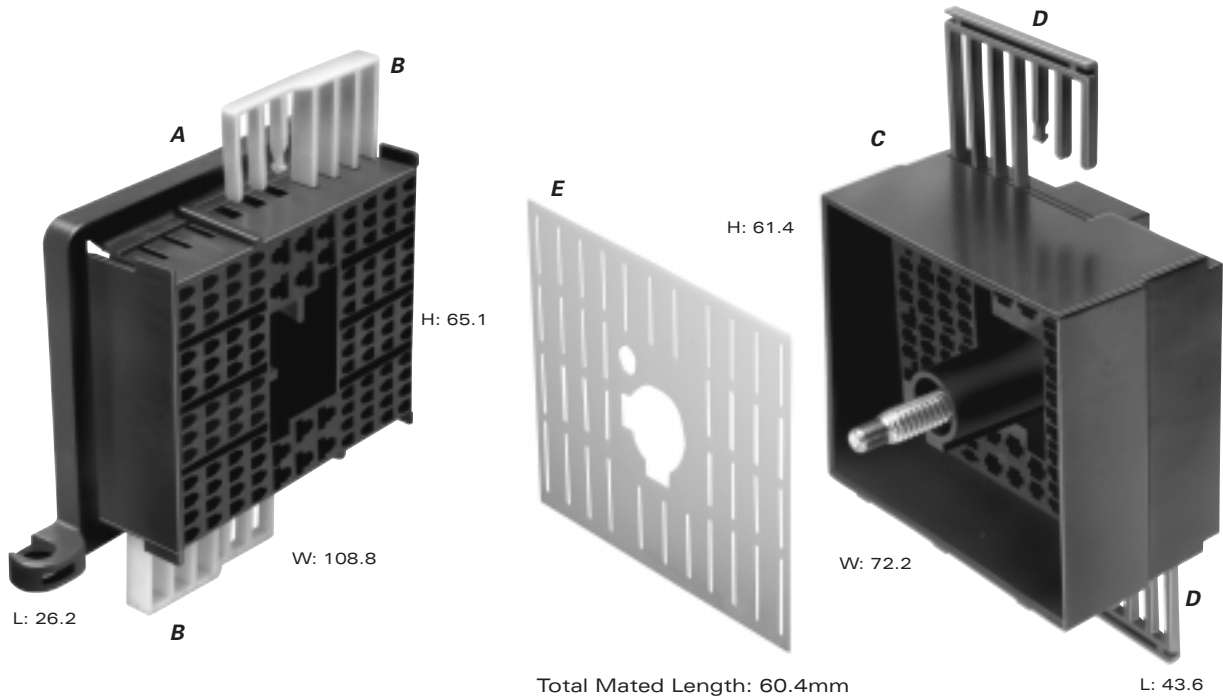
D PART NO: 12186869
 DESCRIPTION: Stabilizer
 COLOR: Natural
 MATERIAL: Mylar

KEY:

- 280 SERIES
- 480 SERIES
- ▲ 630 SERIES

Mixed connectors feature a combination of different terminal cavities, as indicated by the key.





A PART NO: 12162463
 DESCRIPTION: Connector Assembly 116F
 SIZE: 26.2L x 65.1H x 108.8W
 COLOR: Black
 MATERIAL: PA66 HS IM 14% GF
 TERMINALS: See Page 138

B PART NO: 12047751
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Natural
 MATERIAL: PBT

C PART NO: 12065705
 DESCRIPTION: Connector Assembly 116M
 SIZE: 43.6L x 61.4H x 72.2W
 COLOR: Black
 MATERIAL: PPE
 TERMINALS: See Page 139
 NOTE: See product print for assembly information

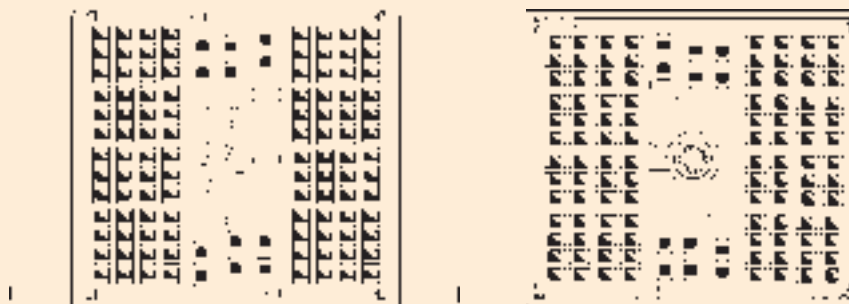
D PART NO: 12047752
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Blue
 MATERIAL: PBT

E PART NO: 12124732
 DESCRIPTION: Stabilizer
 COLOR: Natural
 MATERIAL: Mylar

KEY:

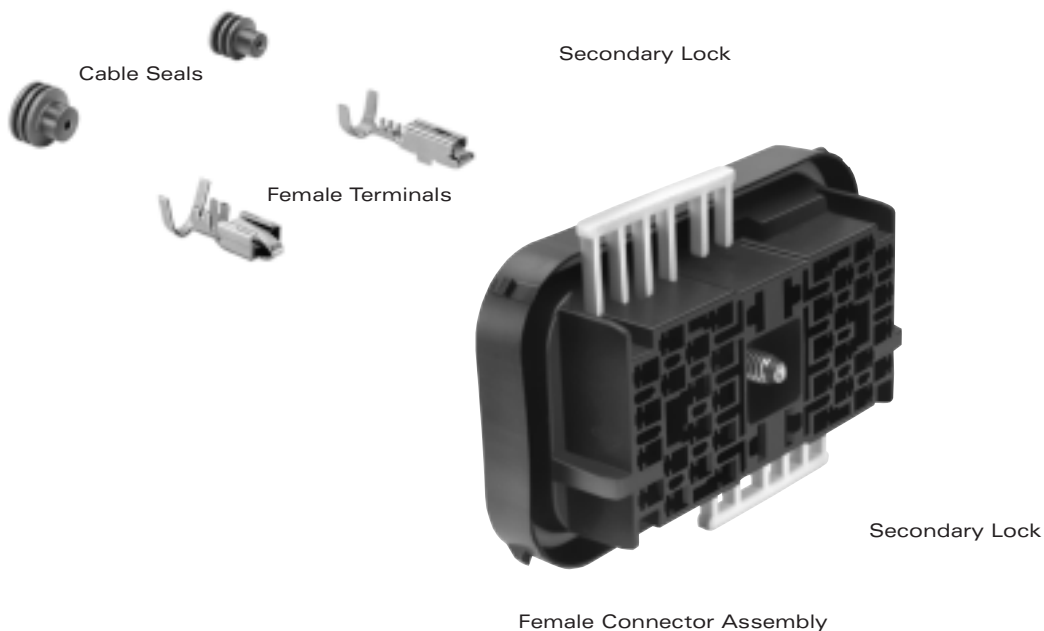
- 150 SERIES
- 280 SERIES

Mixed connectors feature a combination of different terminal cavities, as indicated by the key.





Female Sealed System



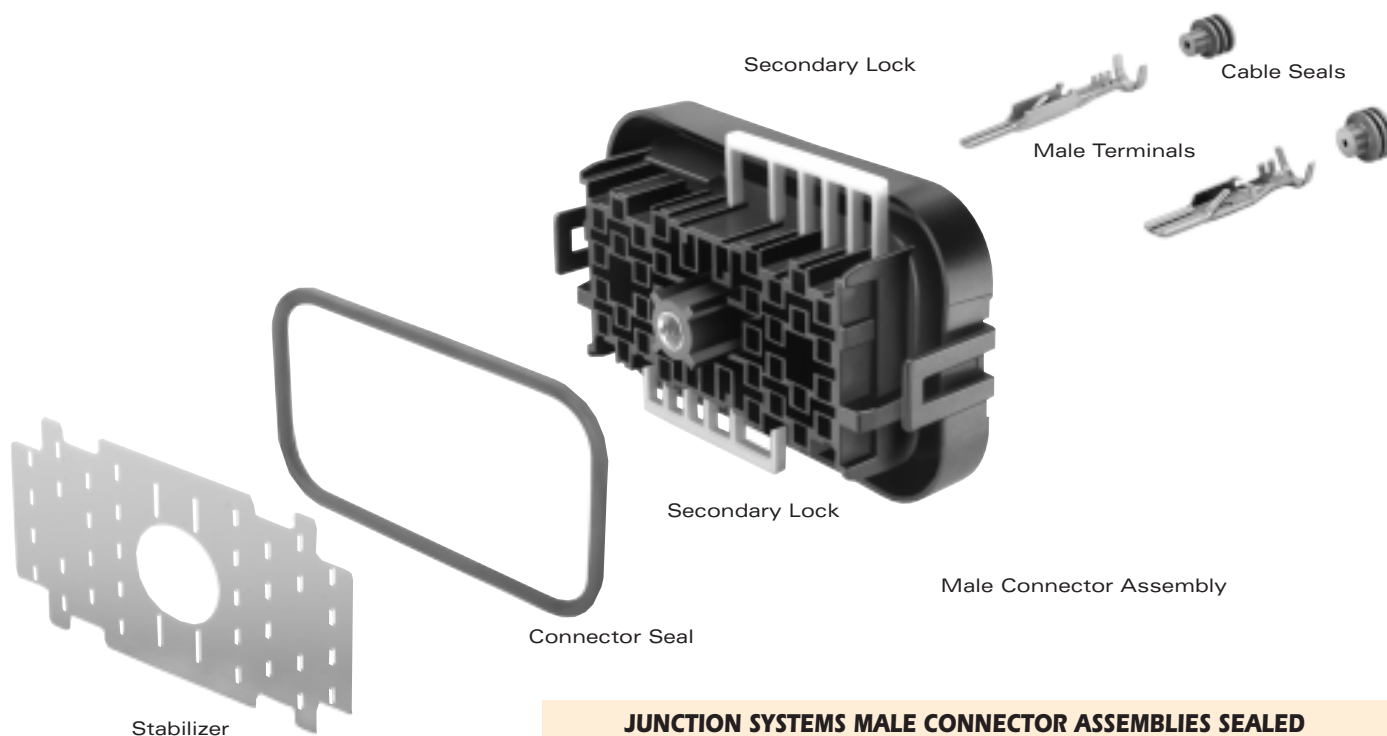
JUNCTION SYSTEMS FEMALE CONNECTOR ASSEMBLIES SEALED

# Cavities	Conn. Asm.	Color	Material	Secondary Lock
30	12065850	Black	PBT	12066050
36	12092491*	Black	PBT	12064835
38	12191499	Black	PA66 15% GF & 25% MF	12129669
78	12129206	Black	PA66 HS 33% GF	12129214

*Note: 12092491 (F) is unsealed for use in a protected environment.



Male Sealed System



JUNCTION SYSTEMS MALE CONNECTOR ASSEMBLIES SEALED

# Cavities	Conn. Asm.	Color	Material	Secondary Lock	Stabilizer	Shroud	Connector Seal
30	12160959	Black	PBT	12065848	—	12176538	12065849
36	12064839	Black	PBT	12064834	—	12066590	12064837
38	12191487	Dk. Gray	PA66 HS IM 14% GF	12129670	15317352	12161191	12129672
78	12176690	Black	PA66 HS 33% GF	12129213	12162573	12162527	—

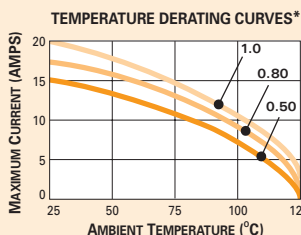
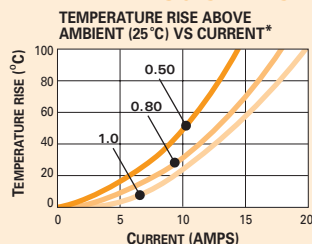


Shroud



Sealed System Application Information

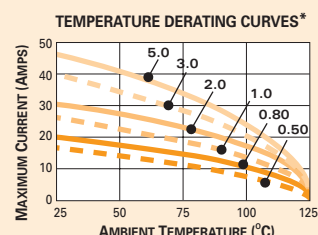
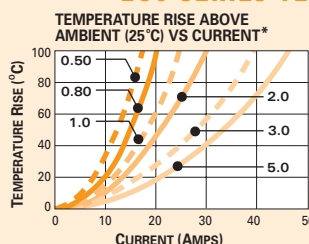
150 SERIES TERMINALS-Tin Plated



CABLE RANGE (mm²): 0.35-1.0
 CURRENT RANGE (AMPS): 0-14
 TEMP RANGE °C: -40 to 125
 RESISTANCE: <10mΩ@20mV

VOLTAGE DROP: <10.0mV/amp
 CENTERLINE SPACING (mm):
 Connector Dependent
 BLADE WIDTH (mm): 1.5

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):
 Connector Dependent
 BLADE WIDTH (mm): 2.8

* 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.

150 SERIES FEMALE TERMINALS SEALED

Part #	Cable Range (mm ²)	Material	Plating
12048074	1.0-0.80	Silicon Bronze	Tin
12084200	0.50-0.35	Silicon Bronze	Tin
12160223	1.0-0.80	Beryllium Copper	Silver/Nickel
12160222	0.50-0.35	Beryllium Copper	Silver/Nickel

480 SERIES FEMALE TERMINALS SEALED

Part #	Cable Range (mm ²)	Material	Plating
12052139	5.0-3.0	Tin Brass	Tin
12048451	2.0-1.0	Tin Brass	Tin
12048450	0.80-0.50	Tin Brass	Tin

280 SERIES FEMALE TERMINALS SEALED

Part #	Cable Range (mm ²)	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

630 SERIES FEMALE TERMINALS SEALED

Part #	Cable Range (mm ²)	Material	Plating
12052456	5.0-3.0	Tin Brass	Tin
12052455	2.0-1.0	Tin Brass	Tin
12052457	0.80-0.50	Tin Brass	Tin

TANGLESS

280 TANGLESS SERIES FEMALE TERMINALS SEALED

Part #	Cable Range (mm ²)	Material	Plating
12110853	5.0-3.0	Tin Brass	Tin
12129409	2.0	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

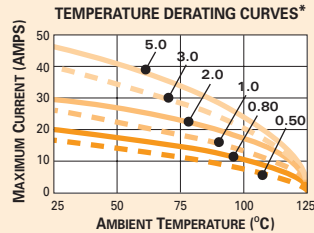
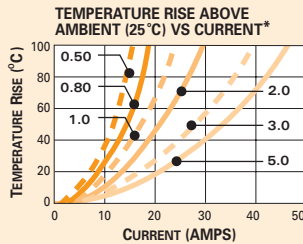
Use for Part No. 12191499 (Shown on Page 151)

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



Sealed System Application Information

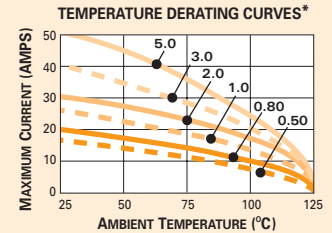
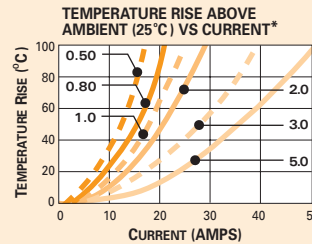
480 SERIES TERMINALS-Tin Plated



CABLE RANGE (mm²): 0.35-5.0
 CURRENT RANGE (AMPS): 0-42
 TEMP RANGE °C: -40 to 125
 RESISTANCE: <10mΩ@20mV

VOLTAGE DROP: <3.0mV/amp
 CENTERLINE SPACING (mm):
 Connector Dependent
 BLADE WIDTH (mm): 4.8

630 SERIES TERMINALS-Tin Plated



CABLE RANGE (mm²): 0.35-5.0
 CURRENT RANGE (AMPS): 0-46
 TEMP RANGE °C: -40 to 125
 RESISTANCE: <10mΩ@20mV

VOLTAGE DROP: <3.0mV/amp
 CENTERLINE SPACING (mm):
 Connector Dependent
 BLADE WIDTH (mm): 6.3

* 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.



150 SERIES MALE TERMINALS SEALED

Part #	Cable Range (mm ²)	Material	Plating
12045773	1.0-0.80	Tin Brass	Tin
12077628	0.50-0.35	Tin Brass	Tin



480 SERIES MALE TERMINALS SEALED

Part #	Cable Range (mm ²)	Material	Plating
12052172	5.0	Tin Brass	Tin
12065197	3.0	Tin Brass	Tin
12065196	2.0-1.0	Tin Brass	Tin



280 SERIES MALE TERMINALS SEALED

Part #	Cable Range (mm ²)	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



630 SERIES MALE TERMINALS SEALED

Part #	Cable Range (mm ²)	Material	Plating
12064736	5.0	Tin Brass	Tin
12064737	3.0	Tin Brass	Tin
12064735	2.0-1.0	Tin Brass	Tin
12064734	0.80-0.50	Tin Brass	Tin



Sealed System Cable Seals & Cavity Plugs



150 METRI-PACK CABLE SEALS

Reel Part #	Loose Part #	Cable Diameter	Material	Color
12052924	12048086	2.85-2.03	Silicone	Dk. Red
12089442	12089678	2.15-1.60	Silicone	White
12052925	12048087	1.70-1.29	Silicone	Blue
12124669	12084193	1.009-0.995	Silicone	Tan



150 METRI-PACK CAVITY PLUG*

Part #	Cavity Inside Diameter	Material	Color
12059168	5.2mm	Silicone	Dk. Red

*Cavity plugs seal unused female and male cavities.



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



280 METRI-PACK CAVITY PLUG*

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

*Cavity plugs seal unused female and male cavities.



480 METRI-PACK CABLE SEALS

Reel Part #	Loose Part #	Cable Diameter	Material	Color
12065703	12034170	5.16-4.40	Silicone	Orange
12052453	12048443	4.50-3.61	Silicone	Purple
12052452	12048442	3.75-2.81	Silicone	Red
12048433	12048441	2.85-2.01	Silicone	White
12052931	12052930	2.15-1.60	Silicone	Yellow
12162068	12162067	1.70-1.29	Silicone	Pink



480 METRI-PACK CAVITY PLUG*

Part #	Cavity Inside Diameter	Material	Color
12066082	8.5mm	Silicone	Lt. Green

*Cavity plugs seal unused female and male cavities.



630 METRI-PACK CABLE SEALS

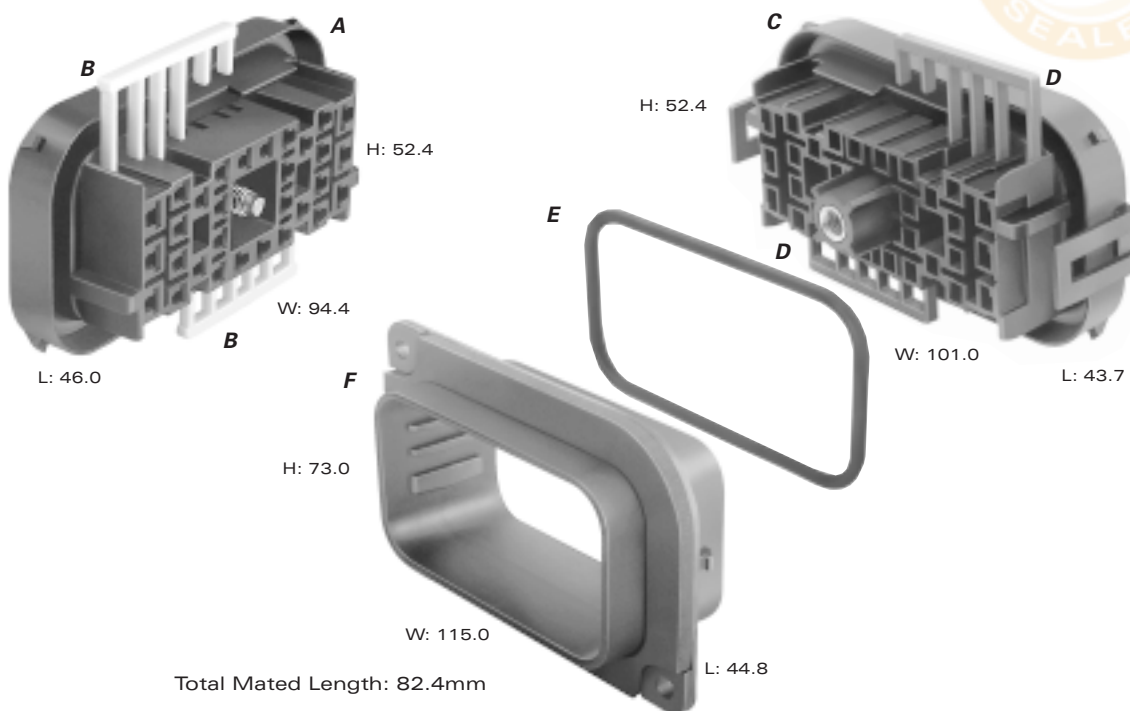
Reel Part #	Loose Part #	Cable Diameter	Material	Color
12059257	12052386	5.15-4.40	Silicone	Green
12059260	12052668	4.50-3.61	Silicone	Blue
12059258	12052387	3.75-2.81	Silicone	Lt. Gray
12059259	12052388	2.85-2.01	Silicone	Dk. Red
12077760	12077759	2.15-1.65	Silicone	Tan



630 METRI-PACK CAVITY PLUG*

Part #	Cavity Inside Diameter	Material	Color
12059255	9.8mm	Silicone	Lt. Green

*Cavity plugs seal unused female and male cavities.



A PART NO: 12065850
 DESCRIPTION: Connector Assembly 30F
 SIZE: 46.0L x 52.4H x 94.4W
 COLOR: Black
 MATERIAL: PBT
 TERMINALS: See Page 146
 SEALS/PLUGS: See Page 148

B PART NO: 12066050
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Natural
 MATERIAL: PBT

C PART NO: 12160959
 DESCRIPTION: Connector Assembly 30M
 SIZE: 43.7L x 52.4H x 101.0W
 COLOR: Black
 MATERIAL: PBT
 TERMINALS: See Page 147
 SEALS/PLUGS: See Page 148
 NOTE: Wire dress cover 12066129 is available.

D PART NO: 12065848
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Blue
 MATERIAL: PBT

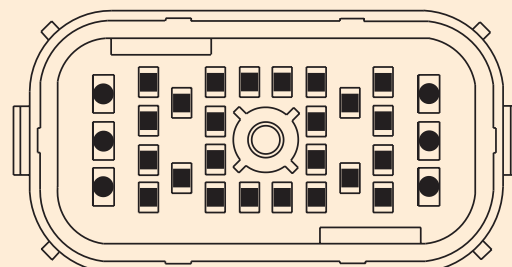
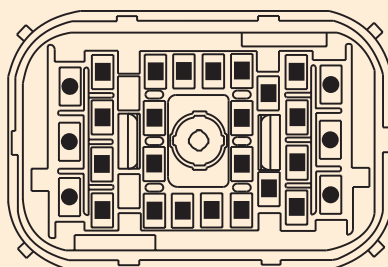
E PART NO: 12065849
 DESCRIPTION: Connector Seal
 COLOR: Green
 MATERIAL: Silicone

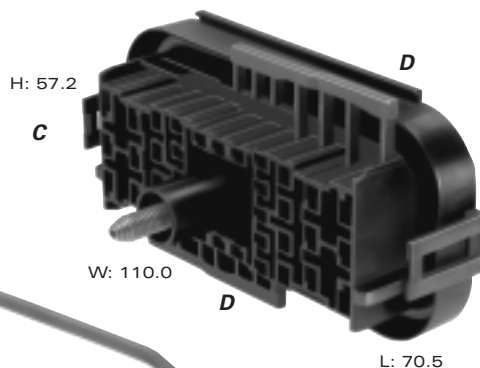
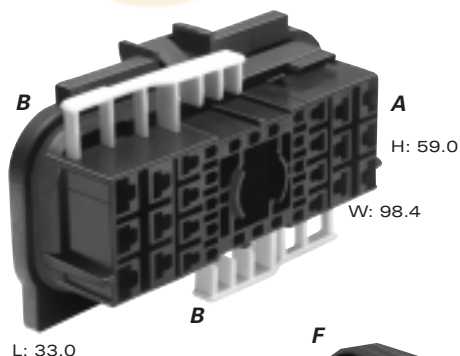
F PART NO: 12176538
 DESCRIPTION: Pass-Through Shroud
 SIZE: 44.8L x 73.0H x 115.0W
 COLOR: Black
 MATERIAL: PBT 15% GF
 NOTE: Body mount shroud 12065847 is available.

KEY:

- 280 SERIES
- 480 SERIES

Mixed connectors feature a combination of different terminal cavities, as indicated by the key.





Total Mated Length: 88.9mm

A PART NO: 12092491
 DESCRIPTION: Connector Assembly 36F (Unsealed)
 SIZE: 33.0L x 59.0H x 98.4W
 COLOR: Black
 MATERIAL: PBT
 TERMINALS: See Page 138 for Unsealed terminals

C PART NO: 12064839
 DESCRIPTION: Connector Assembly 36M
 SIZE: 70.5L x 57.2H x 110.0W
 COLOR: Black
 MATERIAL: PBT
 TERMINALS: See Page 147
 SEALS/PLUGS: See Page 148

B PART NO: 12064835
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Natural
 MATERIAL: PBT

D PART NO: 12064834
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Blue
 MATERIAL: PBT

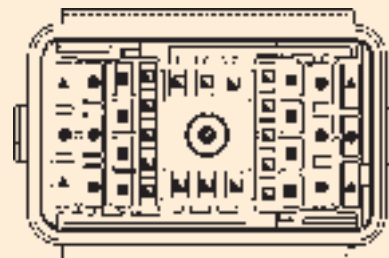
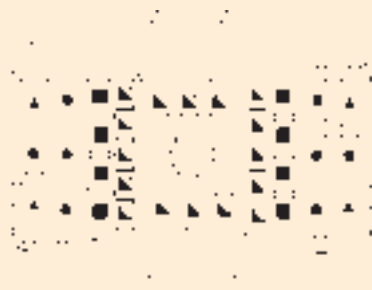
E PART NO: 12064837
 DESCRIPTION: Connector Seal
 COLOR: Green
 MATERIAL: Silicone

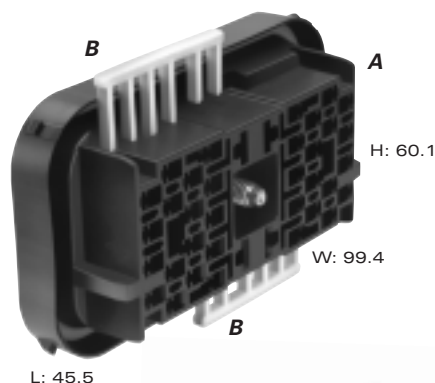
F PART NO: 12066590
 DESCRIPTION: Sliding Shroud
 SIZE: 43.8L x 73.0H x 123.1W
 COLOR: Black
 MATERIAL: PBT 30% GF

KEY:

- 150 SERIES
- 280 SERIES
- 480 SERIES
- ▲ 630 SERIES

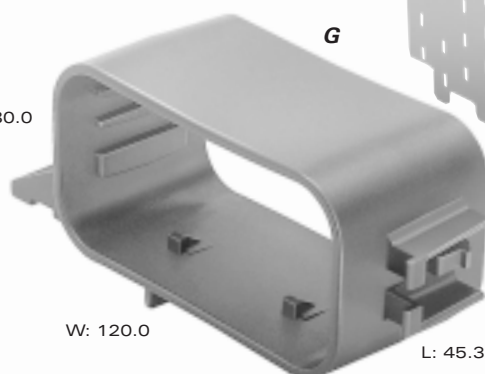
Mixed connectors feature a combination of different terminal cavities, as indicated by the key.





L: 45.5

H: 80.0



W: 120.0

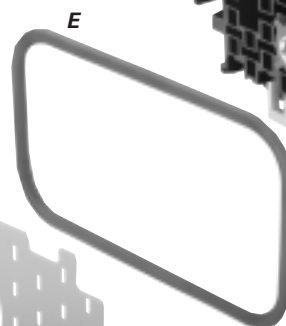
L: 45.3

Total Mated Length: 85.3mm

A PART NO: 12191499
 DESCRIPTION: Connector Assembly 38F
 SIZE: 45.5L x 60.1H x 99.4W
 COLOR: Black
 MATERIAL: PA66 15% GF & 25% MF
 TERMINALS: See Page 146 - 280 Tangless
 See Page 146 - 630 Series
 SEALS/PLUGS: See Page 148

B PART NO: 12129669
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Natural
 MATERIAL: PBT

H: 60.1



W: 106.0

L: 41.7

C PART NO: 12191487
 DESCRIPTION: Connector 38M
 SIZE: 41.7L x 60.1H x 106.0W
 COLOR: Dk. Gray
 MATERIAL: PA66 HS IM 14% GF
 TERMINALS: See Page 147
 SEALS/PLUGS: See Page 148

D PART NO: 12129670
 DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Natural
 MATERIAL: PBT

E PART NO: 12129672
 DESCRIPTION: Connector Seal
 COLOR: Green
 MATERIAL: Silicone

F PART NO: 15317352
 DESCRIPTION: Stabilizer
 COLOR: Natural
 MATERIAL: Mylar

G PART NO: 12161191
 DESCRIPTION: Pass-Through Shroud
 SIZE: 45.3L x 80.0H x 120.0W
 COLOR: Black
 MATERIAL: PBT 15% GF
 NOTE: Body mount shroud 12160809 is available.

KEY:

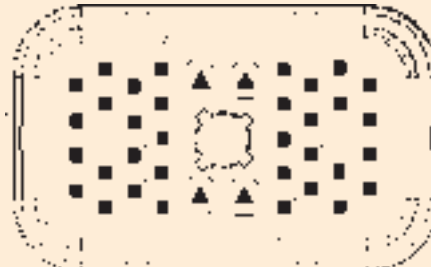
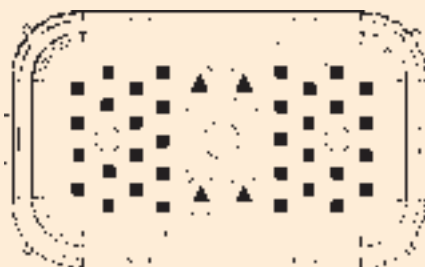
TANGLESS

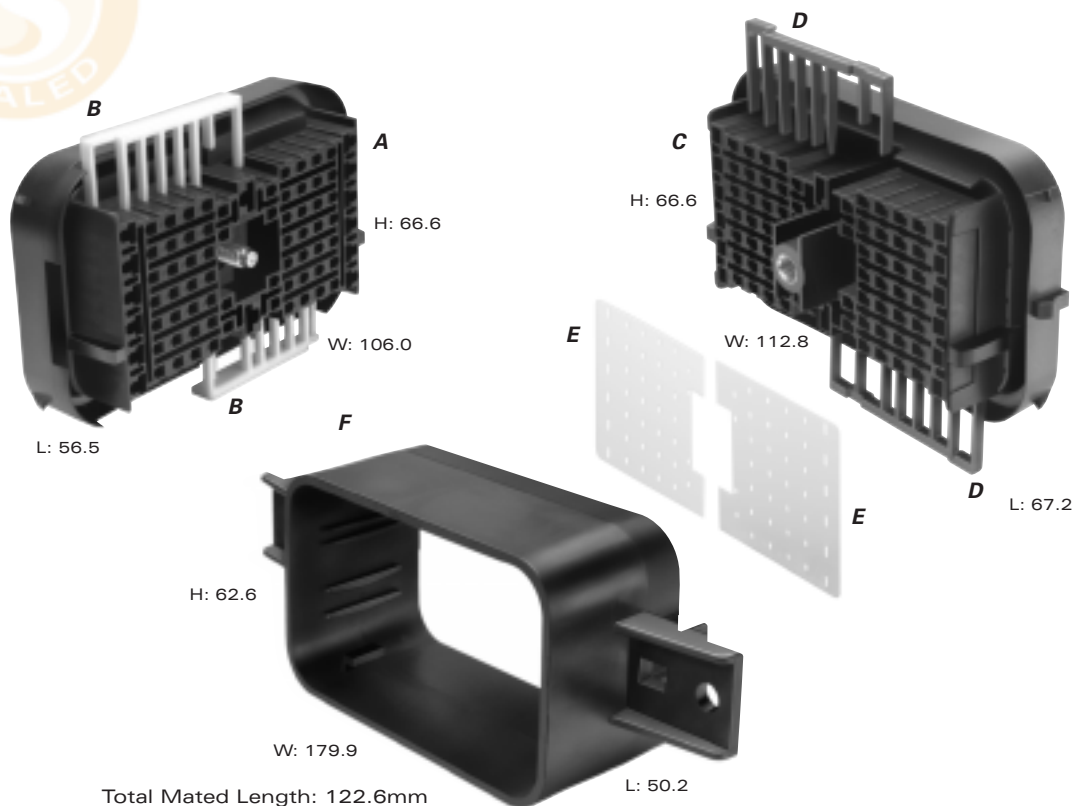


■ 280 SERIES

▲ 630 SERIES

Mixed connectors feature a combination of different terminal cavities, as indicated by the key.





A PART NO: 12129206

DESCRIPTION: Connector Assembly 78F
 SIZE: 56.5L x 66.6H x 106.0W
 COLOR: Black
 MATERIAL: PA66 HS 33% GF
 TERMINALS: See Page 146
 SEALS/PLUGS: See Page 148

C PART NO: 12176690

DESCRIPTION: Connector Assembly 78M
 SIZE: 67.2L x 66.6H x 112.8W
 COLOR: Black
 MATERIAL: PA66 HS 33% GF
 TERMINALS: See Page 147
 SEALS/PLUGS: See Page 148

B PART NO: 12129214

DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Natural
 MATERIAL: PBT

D PART NO: 12129213

DESCRIPTION: Secondary Lock
 NUMBER REQ: 2
 COLOR: Blue
 MATERIAL: PBT

E PART NO: 12162573

DESCRIPTION: Stabilizer
 NUMBER REQ: 2
 COLOR: Natural
 MATERIAL: Mylar

F PART NO: 12162527

DESCRIPTION: Sliding Shroud
 SIZE: 50.2L x 62.6H x 179.9W
 COLOR: Black
 MATERIAL: PBT IM

KEY:

- 150 SERIES
- 280 SERIES
- ▲ 630 SERIES

Mixed connectors feature a combination of different terminal cavities, as indicated by the key.

