

Part #	Cable Kange (mm²)	iviateriai	Plating				
12146448	1.0-0.80	Copper Nickel Alloy	Tin				
12146447	0.50-0.35	Copper Nickel Alloy	Tin				
Nickel/Gold plating available.							

Female Connector

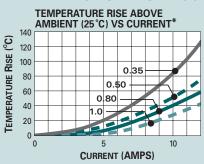
			MIC	RO-PACK F	EMALE	COI	NNECTOR	S UNSEAL	ED
# Cavities	Connector	Color	Material	TPA-A	TPA-B		# Cavities	Connector	C
6way: 6	12064993	Black	PBT	12066170	-		32way: 32	12110207	Lt.
10way: 4	12066189	Natural	PBT	12059160	-		40way: 16	12084945	(
: 6	12064993	Black	PBT	12066170	-		: 24	12110088	Lt.
12way:12	12064799	Black	PBT 30% GF	12064822	12064823		48way: 24	12110244	- 1
13way: 4	12066189	Natural	PBT	12059160	-		: 24	12110206	Lt.
: 9	12066130	Natural	PBT	12064986	-		56way: 24	12110206	Lt
15way: 6	12064978	Gray	PBT	12066170	-		: 32	12110207	Lt.
: 9	12064980	Black	PBT	12064986	-		64way: 16	12084945	(
16way :16	12110259	Green	PBT 30% GF	12048344	12048345		: 24	12110088	Lt.
20way: 10	12047531	Black	PA66 HS IM	Button Lock	-		: 24	12110244	- 1
: 10	12065785	Gray	PBT	Button Lock	_		Mixed	•	
24way: 24	12110088	Lt. Gray	PBT 30% GF	12047900	12047901		32way: 8	15357040	Md
32way: 32	12110113	Dk. Red	PBT 30% GF	12045889	12045890		: 24	12110088	Lt.

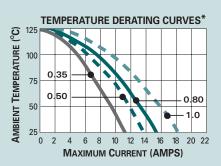
# Cavities	Connector	Color	Material	TPA-A	TPA-B			
32way: 32	12110207	Lt. Blue	PBT 30% GF	12045889	12045890			
40way: 16	12084945	Gray	PBT 30% GF	12048344	12048345			
: 24	12110088	Lt. Gray	PBT 30% GF	12047900	12047901			
48way: 24	12110244	Pink	PBT 30% GF	12047900	12047901			
: 24	12110206	Lt. Blue	PBT 30% GF	12047900	12047901			
56way: 24	12110206	Lt. Blue	PBT 30% GF	12047900	12047901			
: 32	12110207	Lt. Blue	PBT 30% GF	12045889	12045890			
64way: 16	12084945	Gray	PBT 30% GF	12048344	12048345			
: 24	12110088	Lt. Gray	PBT 30% GF	12047900	12047901			
: 24	12110244	Pink	PBT 30% GF	12047900	12047901			
Mixed								
32way: 8	15357040	Md. Gray	PA66 HS IM	15324332	-			
: 24	12110088	Lt. Gray	PBT 30% GF	12047900	12047901			



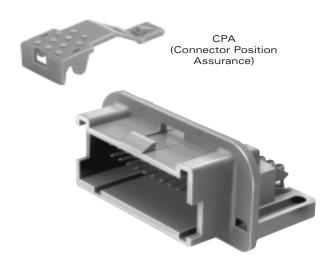
Unsealed System Application Information

MICRO-PACK 100 TERMINALS-Tin Plated





*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 Header Connector Assembly

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.
- Low profile and right angle TPAs also available.

MICRO-PACK MALE HEADER CONNECTOR ASSEMBLIES UNSEALED								
# Pins	Connector	Color	Material		# Pins	Connector	Color	Material
6	12065870	Black	PBT 30% GF		32*	12129340	Dk. Red	PBT 30% GF
10	12065647	Black	PBT 30% GF		32*	12110323	Lt. Blue	PBT 30% GF
12	12064798	Black	PBT 30% GF		40	12191050	Gray	PBT 30% GF
13	12066307	Black	PBT 30% GF		48	12191140	Natural	PBT 30% GF
15	12059915	Black	PBT 30% GF		56*	12110209	Lt. Blue	PBT 30% GF
16	12110261	Green	PBT 30% GF		64	12160861	Black	PBT 30% GF
20*	12089852	Gray	PBT 30% GF		Mixed			
24	12092886	Gray	PBT 30% GF		32	15357042	Gray	PBT 30% GF

Terminals included in connector assembly.

* Gold plating available.

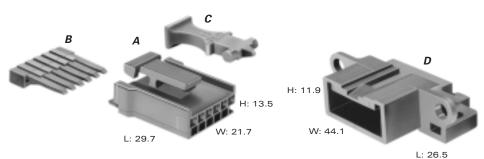
http://delphi.com/products/connect

North American Region European Region

Asia Pacific Region **65-730-9900**

South American Region





Total Mated Length: 49.7mm

PART NO: 12064993

DESCRIPTION: Connector 6F

SIZE: 29.7L x 13.5H x 21.7W

Black COLOR: MATERIAL: PBT

TERMINALS: See Page 170

PART NO: 12066170

DESCRIPTION: TPA COLOR: Red MATERIAL: PA6

PART NO: 12064989

DESCRIPTION: CPA COLOR: Orange MATERIAL:

D PART NO: 12065870

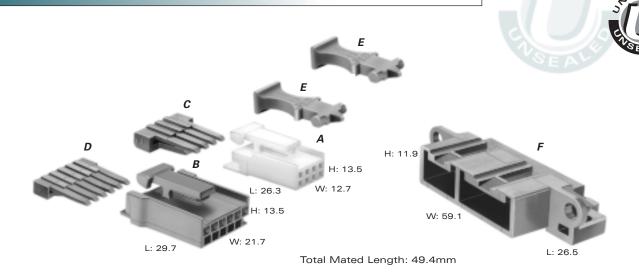
DESCRIPTION: Connector Assembly 6M SIZE: 26.5L x 11.9H x 44.1W

COLOR: Black

MATERIAL: PBT 30% GF

100 HEADER .

Micro-Pack Series



A PART NO: 12066189

DESCRIPTION: Connector 4F

SIZE: 26.3L x 13.5H x 12.7W

COLOR: Natural MATERIAL: PBT

TERMINALS: See Page 170

B PART NO: 12064993

DESCRIPTION: Connector 6F SIZE: 29.7L x 13.5H x 21.7W

SIZE: 29.7L : COLOR: Black

MATERIAL: PBT

TERMINALS: See Page 170

C PART NO: 12059160

DESCRIPTION: TPA COLOR: Red MATERIAL: PA6

D PART NO: 12066170

DESCRIPTION: TPA COLOR: Red MATERIAL: PA6

E PART NO: 12064989

DESCRIPTION: CPA
NUMBER REQ: 2
COLOR: Orange
MATERIAL: PP

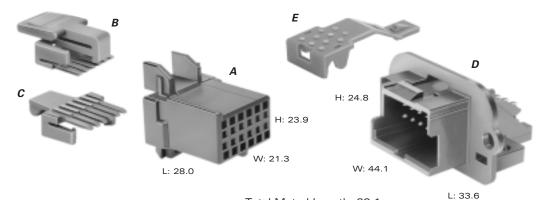
F PART NO: 12065647

DESCRIPTION: Connector Assembly 10M SIZE: 26.5L x 11.9H x 59.1W

color: Black

MATERIAL: PBT 30% GF





Total Mated Length: 39.1mm

A PART NO: 12064799

DESCRIPTION: Connector 12F 28.0L x 23.9H x 21.3W SIZE:

Black COLOR: **PBT 30% GF** MATERIAL: TERMINALS: See Page 170

B PART NO: 12064822

DESCRIPTION: TPA COLOR: Blue MATERIAL: PA6

C PART NO: 12064823

DESCRIPTION: TPA COLOR: Blue MATERIAL: PA6

D PART NO: 12064798

DESCRIPTION: Connector Assembly 12M 33.6L x 24.8H x 44.1W SIZE:

Black COLOR:

PBT 30% GF MATERIAL:

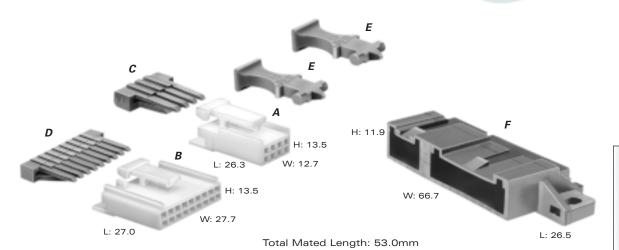
E PART NO: 12077899

DESCRIPTION: CPA COLOR: Orange PP MATERIAL:

100 HEADER .

Micro-Pack Series





A PART NO: 12066189

DESCRIPTION: Connector 4F

SIZE: 26.3L x 13.5H x 12.7W

COLOR: Natural MATERIAL: PBT

TERMINAL: See Page 170

B PART NO: 12066130

DESCRIPTION: Connector 9F

SIZE: 27.0L x 13.5H x 27.7W

COLOR: Natural MATERIAL: PBT

TERMINALS: See Page 170

C PART NO: 12059160

DESCRIPTION: TPA

COLOR: Natural MATERIAL: PA6

D PART NO: 12064986

DESCRIPTION: TPA
COLOR: Red
MATERIAL: PA6

E PART NO: 12064989

DESCRIPTION: CPA
NUMBER REQ: 2
COLOR: Orange
MATERIAL: PP

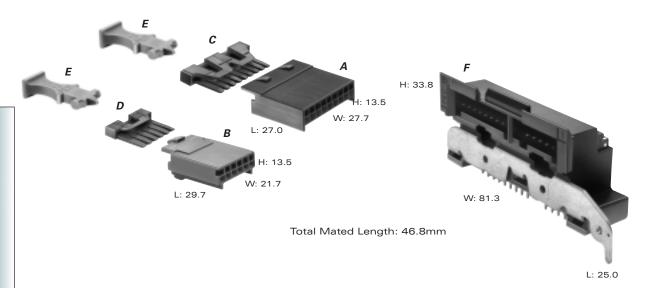
F PART NO: 12066307

DESCRIPTION: Connector Assembly 13M

size: 26.5L x 11.9H x 66.7W

COLOR: Black
MATERIAL: PBT 30% GF





A PART NO: 12064980

DESCRIPTION: Connector 9F

27.0L x 13.5H x 27.7W SIZE:

COLOR: Black PBT MATERIAL:

TERMINALS: See Page 170

B PART NO: 12064978

DESCRIPTION: Connector 6F

29.7L x 13.5H x 21.7W SIZE:

COLOR: Gray MATERIAL: **PBT**

TERMINALS: See Page 170

C PART NO: 12064986

DESCRIPTION: TPA Red COLOR: MATERIAL: PA6

D PART NO: 12066170

DESCRIPTION: TPA Red COLOR: MATERIAL: PA6

E PART NO: 12064989

DESCRIPTION: CPA NUMBER REQ: 2 Orange COLOR: PP MATERIAI:

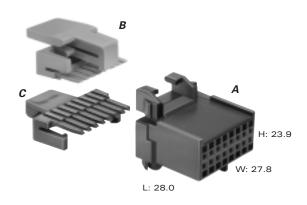
PART NO: 12059915

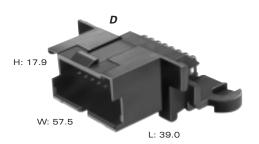
DESCRIPTION: Connector Assembly 15M

SIZE: 25.0L x 33.8H x 81.3W

Black COLOR: **PBT 30% GF** MATERIAL:







Total Mated Length: 60.4mm

A PART NO: 12110259* (Green) 12084944* (Black) 12084945* (Gray)

DESCRIPTION: Connector 16F

28.0L x 23.9H x 27.8W SIZE:

PBT 30% GF MATERIAL: TERMINALS: See Page 170 *DIFFERENT INDEXING FEATURE.

B PART NO: 12048344

DESCRIPTION: TPA COLOR: Blue PA6 MATERIAL:

C PART NO: 12048345

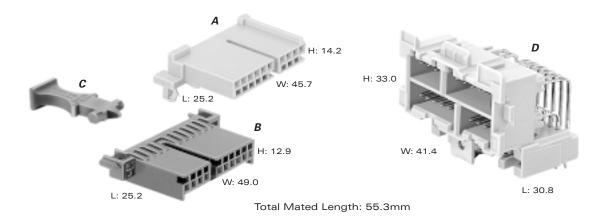
DESCRIPTION: TPA Blue COLOR: PA6 MATERIAL:

D PART NO: 12110261* (Green) 12084948* (Black) 12084949* (Gray)

DESCRIPTION: Connector Assembly 16M 39.0L x 17.9H x 57.5W SIZE:

MATERIAL: PBT 30% GF *DIFFERENT INDEXING FEATURE.





A PART NO: 12065785

DESCRIPTION: Connector 10F - with Button Lock

25.2L x 14.2H x 45.7W SIZE:

Gray COLOR: MATERIAL: PBT

TERMINALS: See Page 170

B PART NO: 12047531

DESCRIPTION: Connector 10F - with Button Lock

25.2L x 12.9H x 49.0W SIZE:

COLOR: Black MATERIAL: PA66 HS IM TERMINALS: See Page 170

C PART NO: 12064989

DESCRIPTION: CPA COLOR: Orange MATERIAL: PP

PART NO: 12089852

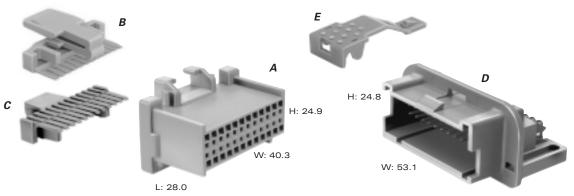
DESCRIPTION: Connector Assembly 20M 30.8L x 33.0H x 41.4W

Gray COLOR: PBT 30% GF MATERIAL:

http://delphi.com/products/connect

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Total Mated Length: 59.1mm

L: 33.5

A PART NO: 12110088

DESCRIPTION: Connector 24F SIZE: 28.0L x 24.9H x 40.3W

COLOR:

Lt. Gray MATERIAL: PBT 30% GF TERMINALS: See Page 170

B PART NO: 12047900

DESCRIPTION: TPA COLOR: Blue PA6 MATERIAL:

C PART NO: 12047901

DESCRIPTION: TPA COLOR: Blue MATERIAL: PA6

D PART NO: 12092886

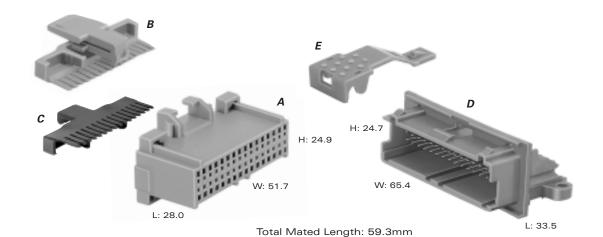
DESCRIPTION: Connector Assembly 24M SIZE: 33.5L x 24.8H x 53.1W

Gray COLOR: PBT 30% GF MATERIAL:

PART NO: 12077899

DESCRIPTION: CPA COLOR: Orange PP MATERIAL:





A PART NO: 12110113* (Dk. Red)

12110114* (White) 12110115* (Dk. Blue) 12110112* (Tan)

DESCRIPTION: Connector 32F 28.0L x 24.9H x 51.7W SIZE:

MATERIAL: PBT 30% GF TERMINALS: See Page 170 *DIFFERENT INDEXING FEATURE.

B PART NO: 12045889

DESCRIPTION: TPA COLOR: Blue MATERIAL: PA6

C PART NO: 12045890

DESCRIPTION: TPA Md. Gray COLOR: MATERIAL: PA6

D PART NO: 12129340* (Dk. Red) 12129341* (Natural) 12129342* (Dk. Blue) 12129369* (Tan)

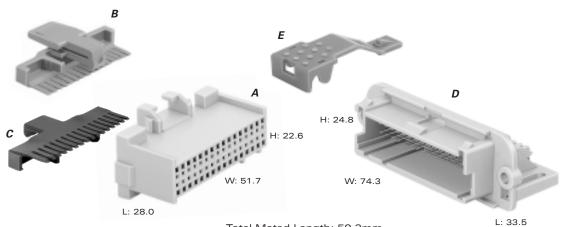
DESCRIPTION: Connector Assembly 32M 33.5L x 24.7H x 65.4W

MATERIAL: PBT 30% GF *DIFFERENT INDEXING FEATURE.

E PART NO: 12077899

DESCRIPTION: CPA Orange COLOR: MATERIAL: PP





Total Mated Length: 59.3mm

A PART NO: 12110207

DESCRIPTION: Connector 32F SIZE:

28.0L x 22.6H x 51.7W

COLOR: Lt. Blue MATERIAL: PBT 30% GF TERMINALS: See Page 170

B PART NO: 12045889

DESCRIPTION: TPA COLOR: Blue PA6 MATERIAL:

C PART NO: 12045890

DESCRIPTION: TPA Md. Gray COLOR: MATERIAL: PA6

PART NO: 12110323

DESCRIPTION: Connector Assembly 32M

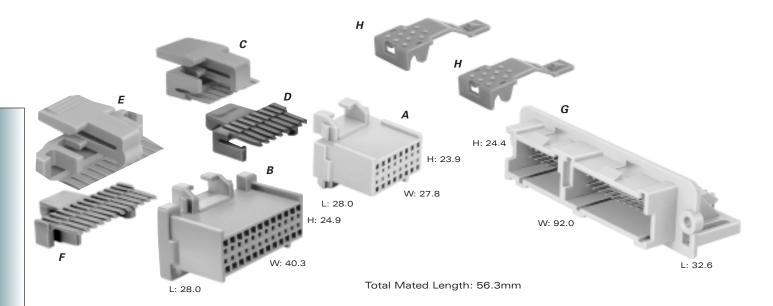
SIZE: 33.5L x 24.8H x 74.3W

COLOR: Lt. Blue MATERIAL: PBT 30% GF

PART NO: 12077899

DESCRIPTION: CPA COLOR: Orange MATERIAL:





A PART NO: 12084945

DESCRIPTION: Connector 16F

28.0L x 23.9H x 27.8W SIZE:

COLOR: Gray

PBT 30% GF MATERIAL: TERMINALS: See Page 170

B PART NO: 12110088

DESCRIPTION: Connector 24F

28.0L x 24.9H x 40.3W SIZE:

COLOR: Lt. Gray MATERIAL: PBT 30% GF

TERMINALS: See Page 170

C PART NO: 12048344

DESCRIPTION: TPA

COLOR: Blue

PA6 MATERIAL:

D PART NO: 12048345

DESCRIPTION: TPA

COLOR: Blue

MATERIAL: PA6

E PART NO: 12047900

DESCRIPTION: TPA

COLOR: Blue PA6 MATERIAL:

F PART NO: 12047901

DESCRIPTION: TPA Blue COLOR.

MATERIAL: PA6

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G PART NO: 12191050

DESCRIPTION: Connector Assembly 40M

32.6L x 24.4H x 92.0W SIZE:

COLOR: Gray

MATERIAL: PBT 30% GF

H PART NO: 12077899

DESCRIPTION: CPA NUMBER REQ: 2

Orange

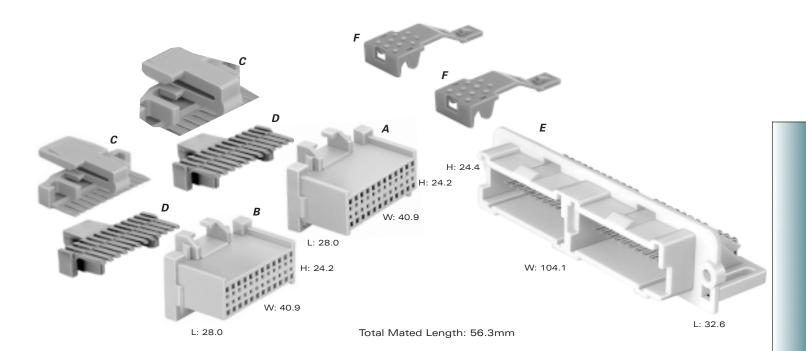
COLOR:

MATERIAL: PP

100 HEADER .

Micro-Pack Series





A PART NO: 12110244

DESCRIPTION: Connector 24F 28.0L x 24.2H x 40.9W SIZE:

COLOR: Pink

MATERIAL: **PBT 30% GF** TERMINALS: See Page 170

B PART NO: 12110206

DESCRIPTION: Connector 24F SIZE: 28.0L x 24.2H x 40.9W

Lt. Blue COLOR:

MATERIAL: PBT 30% GF TERMINALS: See Page 170

C PART NO: 12047900

DESCRIPTION: TPA NUMBER REQ: 2 Blue COLOR: MATERIAL: PA6

D PART NO: 12047901

DESCRIPTION: TPA NUMBER REQ: 2 COLOR: Blue MATERIAL: PA6

E PART NO: 12191140

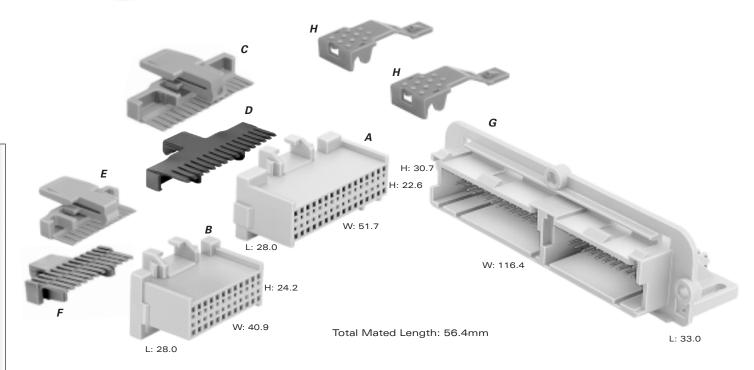
DESCRIPTION: Connector Assembly 48M 32.6L x 24.4H x 104.1W SIZE:

COLOR: Natural MATERIAL: PBT 30% GF

PART NO: 12077899

DESCRIPTION: CPA NUMBER REQ: 2 Orange COLOR: MATERIAL: PP





A PART NO: 12110207* (Lt. Blue)

12110245* (Pink) 12160779* (Brown)

DESCRIPTION: Connector 32F SIZE: 28.0L x 22.6H x 51.7W

PBT 30% GF MATERIAL: TERMINALS: See Page 170 *DIFFERENT INDEXING FEATURE.

B PART NO: 12110206* (Lt. Blue)

12110244* (Pink) 12160778* (Brown)

DESCRIPTION: Connector 24F

28.0L x 24.2H x 40.9W SIZE:

PBT 30% GF MATERIAL: TERMINALS: See Page 170 *DIFFERENT INDEXING FEATURE.

C PART NO: 12045889

DESCRIPTION: TPA COLOR: Blue PA6 MATERIAL:

D PART NO: 12045890

DESCRIPTION: TPA COLOR: Md. Gray PA6 MATERIAL:

E PART NO: 12047900

DESCRIPTION: TPA COLOR: Blue PA6 MATERIAL:

PART NO: 12047901

DESCRIPTION: TPA Blue COLOR: MATERIAL: PA6

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G PART NO: 12110209* (Lt. Blue) 12110241* (Pink)

12160777* (Brown)

DESCRIPTION: Connector Assembly 56M SIZE: 33.0L x 30.7H x 116.4W

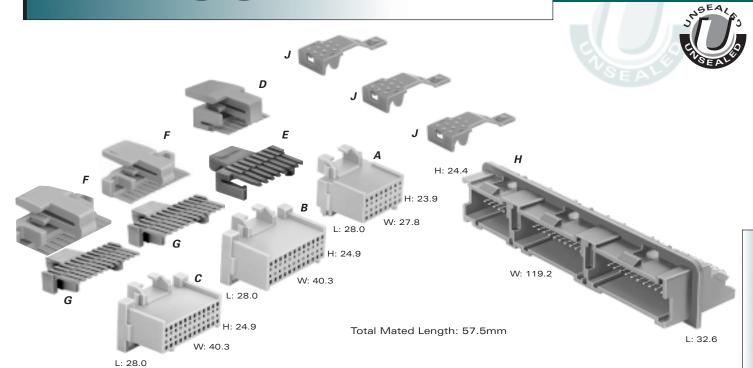
Lt. Blue COLOR: MATERIAL: PBT 30% GF *DIFFERENT INDEXING FEATURE.

H PART NO: 12077899

DESCRIPTION: CPA NUMBER REQ: 2 COLOR: Orange MATERIAL:

100 HEADE

Micro-Pack Series



A PART NO: 12084945* (Gray) 12191375* (Purple)

DESCRIPTION: Connector 16F

28.0L x 23.9H x 27.8W SIZE:

Gray COLOR: PBT 30% GF MATERIAL:

TERMINALS: See Page 170 *DIFFERENT INDEXING FEATURE.

B PART NO: 12110088* (Lt. Gray) 12110206* (Lt. Blue)

DESCRIPTION: Connector 24F SIZE: 28.0L x 24.9H x 40.3W

PBT 30% GF MATERIAL: TERMINALS: See Page 170 *DIFFERENT INDEXING FEATURE.

C PART NO: 12110244* (Pink) 12160778* (Brown)

DESCRIPTION: Connector 24F

28.0L x 24.9H x 40.3W SIZE:

PBT 30% GF MATERIAL: TERMINALS: See Page 170 *DIFFERENT INDEXING FEATURE.

D PART NO: 12048344

DESCRIPTION: TPA COLOR: Blue PA6 MATERIAL:

E PART NO: 12048345

DESCRIPTION: TPA COLOR: Blue PA6 MATERIAL:

PART NO: 12047900

DESCRIPTION: TPA NUMBER REQ: 2 Blue COLOR: MATERIAL: PA6

G PART NO: 12047901

DESCRIPTION: TPA NUMBER REQ: 2 COLOR: Blue PA6 MATERIAL:

H PART NO: 12160861* (Black) 12191293* (Dk. Blue)

DESCRIPTION: Connector Assembly 64M 32.6L x 24.4H x 119.2W SIZE:

PBT 30% GF MATERIAL: *DIFFERENT INDEXING FEATURE.

PART NO: 12077899

DESCRIPTION: CPA NUMBER REQ: 3 COLOR: Orange MATERIAL: