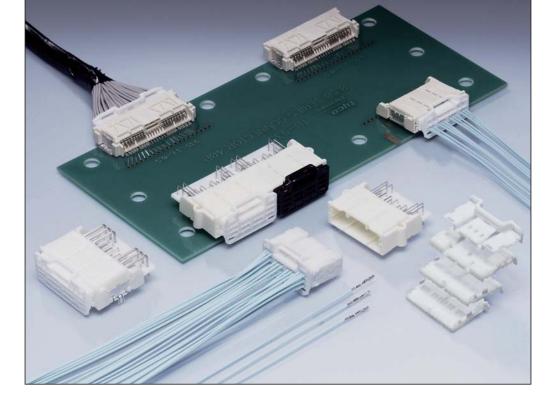


Introduction



Innovative Miniature 0.50 Series Connectors for Automotive & Commercial Vehicles



0.50 Series and 0.50/1.5 Hybrid Connectors

Tyco Electronics has developed an 0.50 series and 0.50/1.5 hybrid automotive I/O connector series for thin-type computer units, high-density circuit boards and ultra-narrow wiring.

The 0.50 series connectors offer significant improvements in miniaturization and weight reduction compared to the Tyco Electronics 0.64 connector series. The 0.50 connector series tin plated terminals maintain the same contact reliability as the 0.64 series while reducing packaging volume by 70 percent, weight by 50 percent and height by 50 percent.

The wire-side connectors are small but easy to lock – requiring a mating force of under 55 N for the 40 position size – with an ergonomic shape for proper mating. PCB-side connectors provide a stable surface mount with a center-weighted design.

Product Features

- Minimum pitch of 0.75 mm for surface mounting PCB
- Minimum pitch of 1.5 mm for wire harnesses
- Lead-free solder compliant

Applications

- Drive Support System, Luggage Door Closer System
- Body ECU, Air-Conditioning ECU
- Navigation ECU
- ECUs for Compact and High Density Requirements



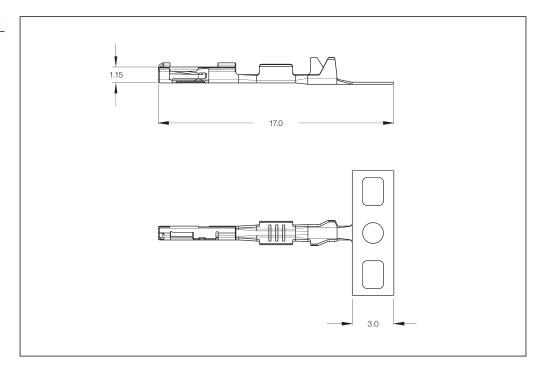
0.50 Receptacle Contacts

Technical Features

Contact Material: Copper Alloy

Contact Finish: Pre-tin plated, Selective gold plated

Application Specification: 114-5379



0.50 Receptacle Contacts

Wire Size	Insulation				Part	Numbers		
Range (mm ²)	Diameter (mm)	Material and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator	Hand Tool with Die Set
CHFUS	0.95–1.20	Copper alloy, pre-tin plated	1827855-1	40,000	-	_	1762850-2	
0.22-0.35	0.95-1.20	Copper alloy, selective gold plated	pper alloy, selective gold plated 1903703-1 40,000	-	-	1762650-2	-	
CHFUS 0.35–0.50	1.10-1.40	Copper alloy, pre-tin plated	1827855-2	40,000	-	-	1762851-2	-
CPEX 0.22	1.30–1.50	Copper alloy, pre-tin plated	1827855-3	40,000	-	-	1762852-2	-
CHFUS 0.13	0.85–0.95	Copper alloy, pre-tin plated	1827855-4	40,000	-	-	1762853-2	-

Note: All Part Numbers are RoHS and ELV compliant.

1.5 Receptacle Contacts

Please consult our sales representatives to select applicable 1.5 receptacle contacts.



40 Position Surface Mount Type



No. of Positions: 40 Positions Housing Material

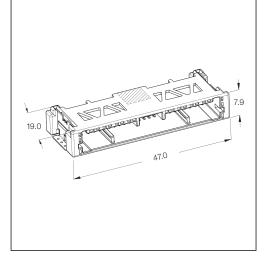
Tab Housing: LCP-GF

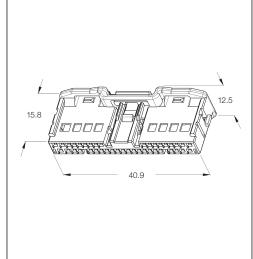
Tab Contact Finish: Post-tinned

Receptacle Housing: PBT

Product Specification: 108-78208

Application Specification: 411-78199



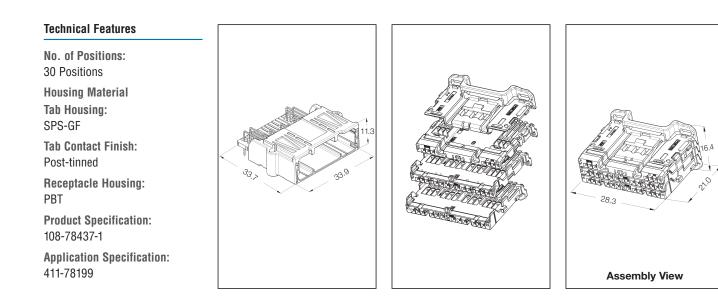


40 Position Surface Mount Type

No. of	Kauina	U		Part Numbers	
No. of Positions	Keying Options	Housing Color Tab Housing Assembly		Cover	Mating Receptacle Housing
40	-	Natural (White)	1871806-1	-	1827842-1



30 Position Screw Mount Type

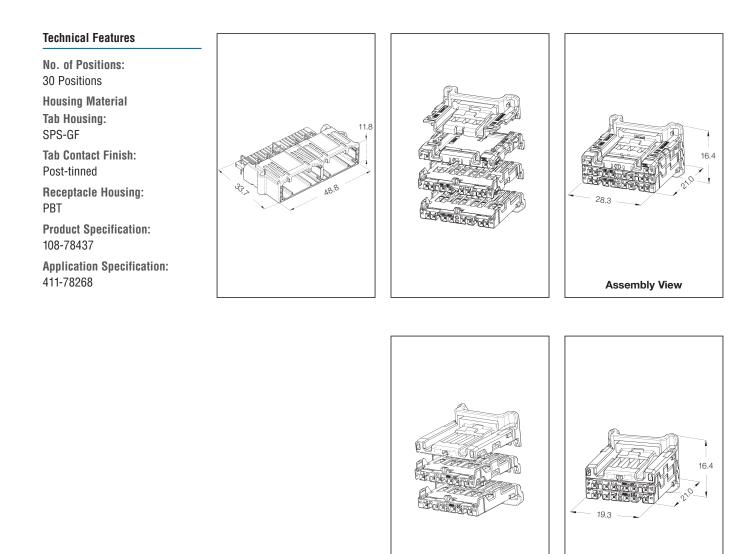


30 Position Screw Mount Type

No. of	Kaulaa	Ususian	Tab Userian	Part Numbers				
No. of Positions	Keying Options	Housing Color	Tab Housing Assembly	Lock Housing	Upper Receptacle	Middle Receptacle	Lower Receptacle	
30	-	Natural (White)	1939440-1	1903614-1	1903615-1	1903608-4	1903611-5	



30 Position Screw Mount Type (continued)



Assembly View

30 Position Screw Mount Type

No. of Keying Positions Options	Kastan		Hausian Tab Hausian	Part Numbers				
		Housing Color	Tab Housing - Assembly	Lock Housing	Upper Receptacle	Middle Receptacle	Lower Receptacle	
30			1939331-1	-	-	-	-	
18	-	Natural (White)	-	1903984-1	1903985-1	1903988-4	1903991-4	
12	(vvinco)	-	1903994-1	_	1903995-1	1903998-1		



28.3

Assembly View

60 Position Screw Mount Type



No. of Positions: 60 Positions

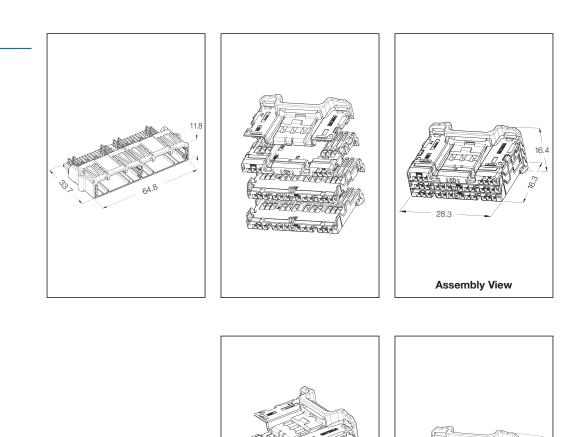
Housing Material Tab Housing: SPS-GF

Tab Contact Finish: Post-tinned

Receptacle Housing: PBT

Product Specification: 108-78437

Application Specification: 411-78268



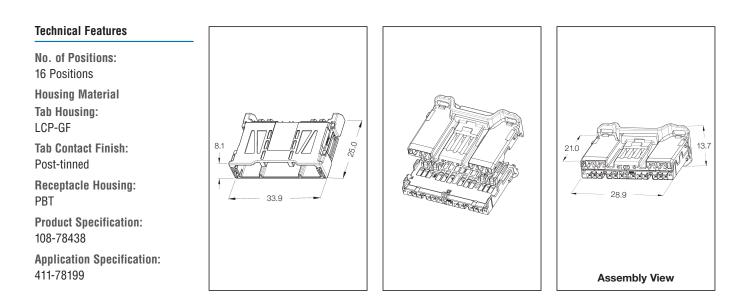
60 Position Screw Mount Type

	Kastina	Housing Color		Part Numbers				
	Keying Options			Lock Housing	Upper Receptacle	Middle Receptacle	Lower Receptacle	
60	-		1903695-2	-	-	_	_	
30		Natural (White)	-	1903614-1	1903615-3	1903608-6	1903611-4	
30			-	1903614-2*	1903615-4	1-1903608-0	2-1903611-6	

*) Housing Color: Black



16 Position Surface Mount Type



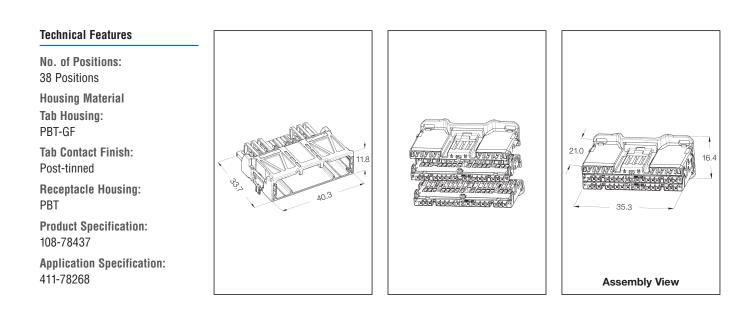
16 Position Surface Mount Type

No of Koving	K an in a				Part Numbers				
No. of Positions	Keying Options	Housing Color	Tab Housing Assembly	Lock Housing	Upper Receptacle	Middle Receptacle	Lower Receptacle		
16	-	Natural (White)	1939082-2	1903607-1	_	_	1903611-1		

Note: 12 cavities are for 0.50 receptacle contacts and 4 cavities are for 1.5 receptacle contacts.



38 Position Board Lock Type



38 Position Board Lock Type

No of Kovi	Kashan			Part Numbers				
No. of Positions	Keying Options	Housing Color	Tab Housing Assembly	Lock Housing	Upper Receptacle	Middle Receptacle	Lower Receptacle	
38	-	Natural (White)	1903876-1	1903882-1	_	1903883-1	1903886-4	

Note: 32 cavities are for 0.50 receptacle contacts and 6 cavities are for 1.5 receptacle contacts.



58 Position Board Lock Type

Technical Features

No. of Positions: 58 Positions

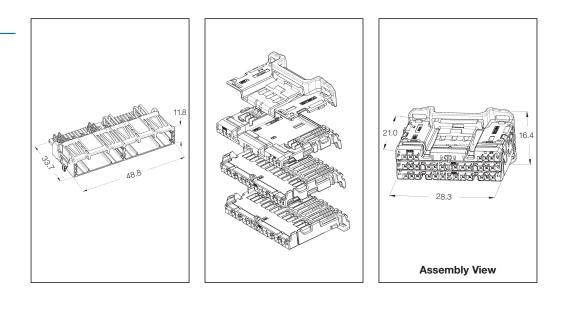
Housing Material Tab Housing: PBT-GF

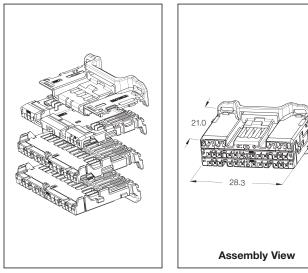
Tab Contact Finish: Post-tinned

Receptacle Housing: PBT

Product Specification: 108-78437

Application Specification: 411-78268





58 Position Screw Mount Type

No. of Keying Positions Options	Karderer		Housing Tab Housing Color Assembly	Part Numbers				
	Options			Lock Housing	Upper Receptacle	Middle Receptacle	Lower Receptacle	
58			1903166-1	-	-	-	-	
30	-	Natural (White)	-	1903614-1	1903615-1	1903608-4	1903611-6	
28		(*********)	-	1903607-4*	-	1903608-8	1-1903611-0	

*) Housing Color: Black

Note: Only the 0.50 receptacle contacts goes into 30 positions receptacle.

As to 28 positions, 24 cavities are for 0.50 receptacle contacts and 4 cavities are for 1.5 receptacle contacts.



76 Position Screw Mount Type

Technical Features

No. of Positions: 76 Positions

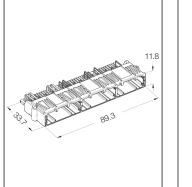
Housing Material Tab Housing: SPS-GF

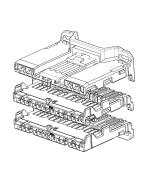
Tab Contact Finish: Post-tinned

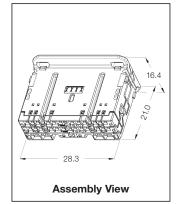
Receptacle Housing: PBT

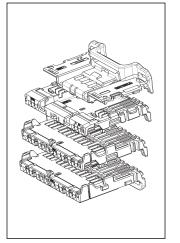
Product Specification: 108-78437

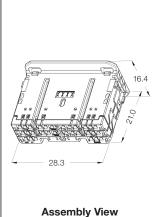
Application Specification: 411-78268

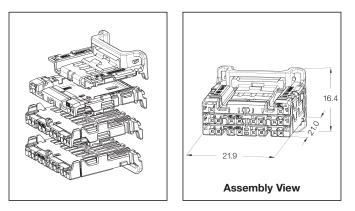












76 Position Screw Mount Type

	Kauina	Housing Color	Tab Usersian	Part Numbers					
	Keying Options		Tab Housing Assembly	Lock Housing	Upper Receptacle	Middle Receptacle	Lower Receptacle		
76			1903965-1	-	-	-	-		
28		Natural	-	1903607-1	-	1903608-3	1903611-4		
30	-	- (White)	-	1903614-1	1903615-1	1903608-4	1903611-5		
18			-	1903984-1	1903985-1	1903988-4	1903991-4		

Note: Only the 0.50 receptacle contacts goes into 30 positions and 18 positions receptacle.

As to 28 positions, 24 cavities are for 0.50 receptacle contacts and 4 cavities are for 1.5 receptacle contacts.